Resistors, Potentiometers & Thermistors

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Carbon Film

0.125 Watt ±5% – MCF 1/8W Series

multicomp

Body dimensions: L = 3.5mm, Dia = 1.85mm

Power rating @ 70°C	125mW
Temperature coefficient - ≤10Ω	± 350ppm/°C
Temperature coefficient - 11Ω to 99K	-4500ppm/°C to 0ppm/°C
Temperature coefficient - 100K - 1M	-700ppm/°C to 0ppm/°C
Temperature coefficient - 1.1M - 10M	-1500ppm/°C to 0ppm/°C
Voltage rating	200V
Maximum overload voltage	400V
Operating temperature	-55°C to +155°C

0R =	170-0196	27R =	170-0216	680R =	170-0234	18K =	170-0254	470K =	170-0272
1R =	170-0197	33R =	170-0217	820R =	170-0235	22K =	170-0255	560K =	170-0274
1R2 =	170-0198	39R =	170-0218	1K =	170-0237	27K =	170-0256	680K =	170-0275
1R5 =	170-0199	47R =	170-0219	1K2 =	170-0238	33K =	170-0257	820K =	170-0276
1R8 =	170-0201	56R =	170-0220	1K5 =	170-0239	39K =	170-0258	1M =	170-0277
2R2 =	170-0202	68R =	170-0221	1K8 =	170-0240	47K =	170-0259	1M2 =	170-0278
2R7 =	170-0203	82R =	170-0222	2K2 =	170-0241	56K =	170-0260	1M5 =	170-0279
3R3 =	170-0204	100R =	170-0223	2K7 =	170-0242	68K =	170-0262	1M8 =	170-0280
3R9 =	170-0205	120R =	170-0225	3K3 =	170-0243	82K =	170-0263	2M2 =	170-0281
4R7 =	170-0206	150R =	170-0226	3K9 =	170-0244	100K =	170-0264	2M7 =	170-0282
5R6 =	170-0207	180R =	170-0227	4K7 =	170-0245	120K =	170-0265	3M3 =	170-0283
6R8 =	170-0208	220R =	170-0228	5K6 =	170-0246	150K =	170-0266	3M9 =	170-0284
8R2 =	170-0209	270R =	170-0229	6K8 =	170-0247	180K =	170-0267	4M7 =	170-0286
10R =	170-0210	330R =	170-0230	8K2 =	170-0249	220K =	170-0268	5M6 =	170-0287
12R =	170-0211	390R =	170-0231	10K =	170-0251	270K =	170-0269	6M8 =	170-0288
15R =	170-0213	470R =	170-0232	12K =	170-0252	330K =	170-0270	8M2 =	170-0289
18R =	170-0214	560R =	170-0233	15K =	170-0253	390K =	170-0271	10M =	170-0290
22R =	170-0215								

533586

	Price Each				
Order Code	50+	500+	1K+	5K+	10K+
All Values					

0.25 Watt ±5% – MCF ¼W Series

multicomp

L=6.8 max, Dia=2.5 max Lead length=28.0, Lead dia=0.6

Supplied bandoliered on tape (box=5K pcs)

Power rating @ 70°C	250mW	Maximum overload voltage	500V
Temperature coefficient	350 to –350ppm/°C	Operating temperature	-55°C to + 155°C
Voltage rating	250V		

Stocked in the following OHMIC Values:

0R =	**933-9027**	27R =	**933-9345**	680R =	**933-9655**	18K =	**933-9256**	470K =	**933-9566**
1R =	**933-9094**	33R =	**933-9400**	820R =	**933-9710**	22K =	**933-9310**	560K =	**933-9620**
1R2 =	**933-9159**	39R =	**933-9469**	1K =	**933-9051**	27K =	**933-9370**	680K =	**933-9680**
1R5 =	**933-9213**	47R =	**933-9523**	1K2 =	**933-9124**	33K =	**933-9434**	820K =	**933-9744**
1R8 =	**933-9272**	56R =	**933-9582**	1K5 =	**933-9183**	39K =	**933-9493**	1M =	**933-9086**
2R2 =	**933-9337**	68R =	**933-9647**	1K8 =	**933-9248**	47K =	**933-9558**	1M2 =	**118-6236**
2R7 =	**933-9396**	82R =	**933-9701**	2K2 =	**933-9302**	56K =	**933-9612**	1M5 =	**118-6237**
3R3 =	**933-9450**	100R =	**933-9043**	2K7 =	**933-9361**	68K =	**933-9671**	1M8 =	**118-6238**
3R9 =	**933-9515**	120R =	**933-9116**	3K3 =	**933-9426**	82K =	**933-9736**	2M2 =	**118-6239**
4R7 =	**933-9574**	150R =	**933-9175**	3K9 =	**933-9485**	100K =	**933-9078**	2M7 =	**118-6240**
5R6 =	**933-9639**	180R =	**933-9230**	4K7 =	**933-9540**	120K =	**933-9140**	3M3 =	**118-6241**
6R8 =	**933-9698**	220R =	**933-9299**	5K6 =	**933-9604**	150K =	**933-9205**	3M9 =	**118-6242**
8R2 =	**933-9752**	270R =	**933-9353**	6K8 =	**933-9663**	180K =	**933-9264**	4M7 =	**118-6244**
10R =	**933-9035**	330R =	**933-9418**	8K2 =	**933-9728**	220K =	**933-9329**	5M6 =	**118-6245**
12R =	**933-9108**	390R =	**933-9477**	10K =	**933-9060**	270K =	**933-9388**	6M8 =	**118-6246**
15R =	**933-9167**	470R =	**933-9531**	12K =	**933-9132**	330K =	**933-9442**	8M2 =	**118-6247**
18R =	**933-9221**	560R =	**933-9590**	15K =	**933-9191**	390K =	**933-9507**	10M =	**118-6248**
22R =	**933-9280**								

207404

Order Code	50+	500+	1K+	5K+	10K+
All Values●					

0.5 Watt ±5% – MCF ½W Series

multicomp

Lead length=28.0, Lead dia. =0.6 L=9.0, Dia=3.0 Supplied bandoliered on tape (box=2K pcs.)

Power rating @ 70°C	500mW	Maximum overload voltage	700V
Temperature coefficient	350 to -350ppm/°C	Operating temperature	-55°C to + 155°C
Voltage rating	350V		

Stocked in the following OHMIC Values

1R =	**933-8411**	68R =	**933-8918**	1K5 =	**933-8497**	33K =	**933-8721**	680K =	**933-8950**
1R5 =	**933-8527**	82R =	**933-8977**	1K8 =	**933-8551**	39K =	**933-8780**	820K =	**933-9019**
2R2 =	**933-8632**	100R =	**933-8357**	2K2 =	**933-8608**	47K =	**933-8837**	1M =	**933-8390**
3R3 =	**933-8748**	120R =	**933-8438**	2K7 =	**933-8667**	56K =	**933-8896**	1M2 =	**118-6234**
4R7 =	**933-8853**	150R =	**933-8489**	3K3 =	**933-8713**	68K =	**933-8942**	1M5 =	**118-6249**
6R8 =	**933-8969**	180R =	**933-8543**	3K9 =	**933-8772**	82K =	**933-9000**	1M8 =	**118-6250**
10R =	**933-8349**	220R =	**933-8594**	4K7 =	**933-8829**	100K =	**933-8381**	2M2 =	**118-6252**
12R =	**933-8420**	270R =	**933-8659**	5K6 =	**933-8888**	120K =	**933-8462**	2M7 =	**118-6253**
15R =	**933-8470**	330R =	**933-8705**	6K8 =	**933-8934**	150K =	**933-8519**	3M3 =	**118-6254**
18R =	**933-8535**	390R =	**933-8764**	8K2 =	**933-8993**	180K =	**933-8578**	3M9 =	**118-6256**
22R =	**933-8586**	470R =	**933-8810**	10K =	**933-8373**	220K =	**933-8624**	4M7 =	**118-6257**
27R =	**933-8640**	560R =	**933-8870**	12K =	**933-8454**	270K =	**933-8683**	5M6 =	**118-6258**
33R =	**933-8691**	680R =	**933-8926**	15K =	**933-8500**	330K =	**933-8730**	8M2 =	**118-6259**
39R =	**933-8756**	820R =	**933-8985**	18K =	**933-8560**	390K =	**933-8799**	6M8 =	**118-6260**
47R =	**933-8802**	1K =	**933-8365**	22K =	**933-8616**	470K =	**933-8845**	10M =	**933-8403**
56R =	**933-8861**	1K2 =	**933-8446**	27K =	**933-8675**	560K =	**933-8900**		

207192

50+	500+	1K+	2K+	10K+

Carbon Film ±5% Resistor Kits

multicomp

- 0.25 and 0.5 watt carbon film resistor kits
- E6 and E12 series of values

E6 series - 0.25W	43 Values 1R to 10M (100 of each value)
E6 series - 0.5W	37 Values 10R to 10M (100 of each value)
E12 Series - 0.25W	85 Values 1R to 10M (100 of each value)
E12 Series - 0.5W	73 Values 10R to 10M (100 of each value)

207193

			Price Each		
		Order Code	1+	3+	6+
0.25 Watt					
E6 Kit	43 Values	**117-1087●**			
E12 Kit	85 Values	**117-1088●**			
0.5 Watt					
E6 Kit	37 Values	**117-0593●**			
E12 Kit	73 Values	**117-0595●**			

1 Watt ±5% – MCF 1W Series

multicomp

L=12.0, Dia.=5.0 Lead Length=28.0, Lead dia.=0.7

Supplied bandoliered on tape (box=1K pcs)

Power rating @ 70°C	1W1W	Maximum overload voltage	700V
Temperature coefficient	350 to -350ppm/°C	Operating temperature	-55°C to + 155°C
Voltage rating	350V350V		

Stocked in the following OHMIC Values:

1R =	**933-7717**	10R =	**933-7652**	100R =	**933-7660**	1K =	**933-7679**	6K8 =	**933-7997**
1R5 =	**933-7776**	15R =	**933-7725**	150R =	**933-7733**	1K5 =	**933-7741**	10K =	**933-7687**
2R2 =	**933-7830**	22R =	**933-7784**	220R =	**933-7792**	2K2 =	**933-7806**	15K =	**933-7750**
3R3 =	**933-7890**	33R =	**933-7849**	330R =	**933-7857**	3K3 =	**933-7865**	22K =	**933-7814**
4R7 =	**933-7954**	47R =	**933-7903**	470R =	**933-7911**	4K7 =	**933-7920**	33K =	**933-7873**
6R8 =	**933-8020**	68R =	**933-7970**	680R =	**933-7989**	5K6 =	**933-7962**	47K =	**933-7938**

Carbon Film - continued

1 Watt ±5% – MCF 1W Series - continued

68K =	**933-8004**	150K =	**933-7768**	330K =	**933-7881**	680K =	**933-8012**	1M =	**933-7709**
100K =	**933-7695**	220K =	**933-7822**	470K =	**933-7946**				

207195

Order Code	Price Each 10+	500+	1K+	5K+	10K+
All values ●					

Metal Film

Very high stability metal film resistors offering higher performance than carbon film with very low noise levels and high reliability.

213415

0.125 Watt ±1% – MF12 Series

L=4.2, Dia.=2.0 Lead length=28.0, Lead dia.=0.5

Supplied bandoliered on tape (box=5K pcs.)

Power rating @ 70°C	125mW	Operating temperature	-55°C to +155°C
Voltage rating	200V	Temperature coefficient	±50ppm/°C
Maximum overload voltage	400V		

Stocked in the following OHMIC Values:

1R	**934-2451**	68R	**934-3490**	820R	**934-3563**	9K1	**934-3628**	100K	**934-2427**
1R5	**934-2664**	75R	**934-3555**	910R	**934-3610**	10K	**934-2419**	110K	**934-2494**
2R2	**934-2877**	82R	**934-3601**	1K	**934-2400**	11K	**934-2486**	120K	**934-2540**
3R3	**934-3083**	91R	**934-3652**	1K1	**934-2478**	12K	**934-2532**	130K	**934-2591**
4R7	**934-3296**	100R	**934-2397**	1K2	**934-2524**	13K	**934-2583**	150K	**934-2648**
6R8	**934-3504**	110R	**934-2460**	1K3	**934-2575**	15K	**934-2630**	160K	**934-2702**
10R	**934-2443**	120R	**934-2516**	1K5	**934-2621**	16K	**934-2699**	180K	**934-2753**
11R	**934-2508**	130R	**934-2567**	1K6	**934-2680**	18K	**934-2745**	200K	**934-2800**
12R	**934-2559**	150R	**934-2613**	1K8	**934-2737**	20K	**934-2796**	220K	**934-2850**
13R	**934-2605**	160R	**934-2672**	2K	**934-2788**	22K	**934-2842**	240K	**934-2915**
15R	**934-2656**	180R	**934-2729**	2K2	**934-2834**	24K	**934-2907**	270K	**934-2966**
16R	**934-2710**	200R	**934-2770**	2K4	**934-2893**	27K	**934-2958**	300K	**934-3016**
18R	**934-2761**	220R	**934-2826**	2K7	**934-2940**	30K	**934-3008**	330K	**934-3067**
20R	**934-2818**	240R	**934-2885**	3K	**934-2990**	33K	**934-3059**	360K	**934-3121**
22R	**934-2869**	270R	**934-2931**	3K3	**934-3040**	36K	**934-3113**	390K	**934-3172**
24R	**934-2923**	300R	**934-2982**	3K6	**934-3105**	39K	**934-3164**	430K	**934-3229**
27R	**934-2974**	330R	**934-3032**	3K9	**934-3156**	43K	**934-3210**	470K	**934-3270**
30R	**934-3024**	360R	**934-3091**	4K3	**934-3202**	47K	**934-3261**	510K	**934-3334**
33R	**934-3075**	390R	**934-3148**	4K7	**934-3253**	51K	**934-3326**	560K	**934-3385**
36R	**934-3130**	430R	**934-3199**	5K1	**934-3318**	56K	**934-3377**	620K	**934-3431**
39R	**934-3180**	470R	**934-3245**	5K6	**934-3369**	62K	**934-3423**	680K	**934-3482**
43R	**934-3237**	510R	**934-3300**	6K2	**934-3415**	68K	**934-3474**	750K	**934-3547**
47R	**934-3288**	560R	**934-3350**	6K8	**934-3466**	75K	**934-3539**	820K	**934-3598**
51R	**934-3342**	620R	**934-3407**	7K5	**934-3520**	82K	**934-3580**	910K	**934-3644**
56R	**934-3393**	680R	**934-3458**	8K2	**934-3571**	91K	**934-3636**	1M	**934-2435**
62R	**934-3440**	750R	**934-3512**						

207208

Order Code	Price Each 10+	500+	1K+	5K+

0.25 Watt ±0.5% ±50ppm/°C – MCMF0W4

L=6.8 max, Dia=2.5 max, Lead length=28, Lead dia=0.54

● Precision leaded metal film resistors

Power rating @ 70°C	250mW	Tolerance	± 0.5%
Voltage rating	250V	Temperature coefficient	± 50ppm/°C
Overload voltage	500V	Operating temperature	-55°C to +155°C

Stocked in the following OHMIC Values:

26R1 =	**156-3155**	133R =	**156-3091**	562R =	**156-3234**	2K49 =	**156-3170**	11K5 =	**156-3083**
27R7 =	**156-3159**	140R =	**156-3094**	590R =	**156-3237**	2K61 =	**156-3171**	12K1 =	**156-3089**
28R7 =	**156-3163**	154R =	**156-3098**	619R =	**156-3244**	2K74 =	**156-3172**	13K3 =	**156-3092**
30R1 =	**156-3177**	162R =	**156-3102**	649R =	**156-3247**	2K87 =	**156-3173**	14K =	**156-3095**
31R6 =	**156-3183**	169R =	**156-3104**	681R =	**156-3250**	3K01 =	**156-3199**	14K7 =	**156-3096**
33R2 =	**156-3187**	178R =	**156-3110**	715R =	**156-3255**	3K16 =	**156-3200**	15K4 =	**156-3100**
34R8 =	**156-3192**	187R =	**156-3113**	750R =	**156-3258**	3K32 =	**156-3201**	16K2 =	**156-3106**
36R5 =	**156-3195**	196R =	**156-3116**	825R =	**156-3265**	3K48 =	**156-3202**	16K5 =	**156-3107**
38R3 =	**156-3198**	205R =	**156-3136**	866R =	**156-3268**	3K65 =	**156-3203**	16K9 =	**156-3108**
40R2 =	**156-3207**	215R =	**156-3139**	953R =	**156-3278**	3K83 =	**156-3204**	17K8 =	**156-3111**
42R2 =	**156-3212**	226R =	**156-3143**	1K =	**156-3120**	4K02 =	**156-3223**	18K7 =	**156-3114**
44R2 =	**156-3215**	237R =	**156-3146**	1K05 =	**156-3119**	4K64 =	**156-3225**	19K6 =	**156-3118**
46R4 =	**156-3218**	249R =	**156-3149**	1K15 =	**156-3121**	4K87 =	**156-3226**	20K5 =	**156-3137**
48R7 =	**156-3222**	261R =	**156-3152**	1K1 =	**156-3122**	5K11 =	**156-3240**	21K5 =	**156-3140**
51R1 =	**156-3229**	274R =	**156-3157**	1K21 =	**156-3123**	5K36 =	**156-3241**	22K6 =	**156-3144**
53R6 =	**156-3232**	287R =	**156-3161**	1K27 =	**156-3124**	5K62 =	**156-3242**	23K7 =	**156-3147**
56R2 =	**156-3236**	301R =	**156-3175**	1K33 =	**156-3125**	5K9 =	**156-3243**	24K9 =	**156-3150**
59R =	**156-3239**	316R =	**156-3181**	1K47 =	**156-3126**	6K19 =	**156-3253**	26K1 =	**156-3153**
64R9 =	**156-3249**	332R =	**156-3185**	1K4 =	**156-3127**	6K81 =	**156-3254**	27K4 =	**156-3158**
68R1 =	**156-3252**	348R =	**156-3189**	1K54 =	**156-3128**	7K15 =	**156-3262**	28K7 =	**156-3162**
75R =	**156-3260**	365R =	**156-3193**	1K62 =	**156-3131**	7K5 =	**156-3263**	30K1 =	**156-3176**
86R6 =	**156-3272**	383R =	**156-3196**	1K69 =	**156-3132**	7K87 =	**156-3264**	31K6 =	**156-3182**
909R =	**156-3275**	402R =	**156-3205**	1K78 =	**156-3133**	8K25 =	**156-3273**	33K2 =	**156-3186**
90R9 =	**156-3277**	422R =	**156-3209**	1K87 =	**156-3134**	8K66 =	**156-3274**	34K8 =	**156-3190**
95R3 =	**156-3281**	442R =	**156-3213**	2K05 =	**156-3164**	9K09 =	**156-3283**	36K5 =	**156-3194**
100R =	**156-3074**	464R =	**156-3216**	2K15 =	**156-3165**	9K53 =	**156-3284**	38K3 =	**156-3197**
110R =	**156-3080**	487R =	**156-3219**	2K26 =	**156-3168**	10K =	**156-3077**	40K2 =	**156-3206**
121R =	**156-3085**	511R =	**156-3227**	2K37 =	**156-3169**	10K5 =	**156-3078**	42K2 =	**156-3211**
127R =	**156-3088**	536R =	**156-3230**	2K42 =	**156-3224**	11K =	**156-3082**	44K2 =	**156-3214**
46K4 =	**156-3217**	71K5 =	**156-3256**	110K =	**156-3079**	178K =	**156-3109**	261K =	**156-3151**
48K7 =	**156-3220**	75K =	**156-3259**	115K =	**156-3081**	187K =	**156-3112**	274K =	**156-3156**
51K1 =	**156-3228**	78K7 =	**156-3261**	121K =	**156-3084**	196K =	**156-3115**	287K =	**156-3160**
53K6 =	**156-3231**	82K5 =	**156-3266**	127K =	**156-3086**	205K =	**156-3135**	301K =	**156-3174**
56K2 =	**156-3235**	86K6 =	**156-3271**	133K =	**156-3090**	215K =	**156-3138**	316K =	**156-3179**
59K =	**156-3238**	90K9 =	**156-3276**	140K =	**156-3093**	226K =	**156-3141**	332K =	**156-3184**
61K9 =	**156-3246**	95K3 =	**156-3279**	154K =	**156-3097**	237K =	**156-3145**	348K =	**156-3188**
64K9 =	**156-3248**	100K =	**156-3073**	162K =	**156-3101**	249K =	**156-3148**		
68K1 =	**156-3251**	105K =	**156-3076**	169K =	**156-3103**				

505002

Order Code	Price Each 5+	50+	100+	500+	1K+	5K+
All Values ●						

0.25 Watt ±1% – MF25 Series

L=6.8 Dia=2.5 Lead length=28.0 Lead dia=0.6

Supplied bandoliered on tape (box=5K pcs)

Power rating @ 70°C	250mW	Maximum overload voltage	500V
Temperature coefficient	±50ppm/°C	Operating temperature	-55°C to +155°C
Voltage rating	250V		

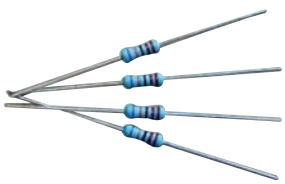
Stocked in the following OHMIC Values:

1R =	**934-1153**	68R =	**934-2192**	820R =	**934-2265**	9K1 =	**934-2320**	100K =	**934-1129**
1R5 =	**934-1366**	75R =	**934-2257**	910R =	**934-2311**	10K =	**934-1110**	110K =	**934-1196**
2R2 =	**934-1579**	82R =	**934-2303**	1K =	**934-1102**	11K =	**934-1188**	120K =	**934-1242**
3R3 =	**934-1781**	91R =	**934-2354**	1K1 =	**934-1170**	12K =	**934-1234**	130K =	**934-1293**
4R7 =	**934-1994**	100R =	**934-1099**	1K2 =	**934-1226**	13K =	**934-1285**	150K =	**934-1340**
6R8 =	**934-2206**	110R =	**934-1161**	1K3 =	**934-1277**	15K =	**934-1331**	160K =	**934-1404**
10R =	**934-1145**	120R =	**934-1218**	1K5 =	**934-1323**	16K =	**934-1390**	180K =	**934-1455**
11R =	**934-1200**	130R =	**934-1269**	1K6 =	**934-1382**	18K =	**934-1447**	200K =	**934-1501**
12R =	**934-1250**	150R =	**934-1315**	1K8 =	**934-1439**	20K =	**934-1498**	220K =	**934-1552**
13R =	**934-1307**	160R =	**934-1374**	2K =	**934-1480**	22K =	**934-1544**	240K =	**934-1617**
15R =	**934-1358**	180R =	**934-1420**	2K2 =	**934-1536**	24K =	**934-1609**	270K =	**934-1668**
16R =	**934-1412**	200R =	**934-1471**	2K4 =	**934-1595**	27K =	**934-1650**	300K =	**934-1714**
18R =	**934-1463**	220R =	**934-1528**	2K7 =	**934-1641**	30K =	**934-1706**	330K =	**934-1765**
20R =	**934-1510**	240R =	**934-1587**	3K =	**934-1692**	33K =	**934-1757**	360K =	**934-1820**
22R =	**934-1560**	270R =	**934-1633**	3K3 =	**934-1749**	36K =	**934-1811**	390K =	**934-1870**
24R =	**934-1625**	300R =	**934-1684**	3K6 =	**934-1803**	39K =	**934-1862**	430K =	**934-1927**
27R =	**934-1676**	330R =	**934-1730**	3K9 =	**934-1854**	43K =	**934-1919**	470K =	**934-1978**
30R =	**934-1722**	360R =	**934-1790**	4K3 =	**934-1900**	47K =	**934-1960**	510K =	**934-2036**
33R =	**934-1773**	390R =	**934-1846**	4K7 =	**934-1951**	51K =	**934-2028**	560K =	**934-2087**
36R =	**934-1838**	430R =	**934-1897**	5K1 =	**934-2010**	56K =	**934-2079**	620K =	**934-2133**
39R =	**934-1889**	470R =	**934-1943**	5K6 =	**934-2060**	62K =	**934-2125**	680K =	**934-2184**
43R =	**934-1935**	510R =	**934-2001**	6K2 =	**934-2117**	68K =	**934-2176**	750K =	**934-2249**
47R =	**934-1986**	560R =	**934-2052**	6K8 =	**934-2168**	75K =	**934-2230**	820K =	**934-2290**
51R =	**934-2044**	620R =	**934-2109**	7K5 =	**934-2222**	82K =	**934-2281**	910K =	**934-2346**
56R =	**934-2095**	680R =	**934-2150**	8K2 =	**934-2273**	91K =	**934-2338**	1M =	**934-1137**
62R =	**934-2141**	750R =	**934-2214**						

207220

Order Code	Price Each 50+	500+	1K+	5K+
All Values				

0.4 Watt ±1% – MFR3 Series



Voltage rating	200V
Operating temperature	-55°C to +155°C
Temperature coefficient	± 50ppm/°C

L=3.7 max, Dia=2 max,
Lead length = 22.4 min, Lead dia. = 0.45 nom

Stocked in the following OHMIC Values:

10R =	**156-5272**	120R =	**156-5274**	1K2 =	**156-5288**	12K =	**156-5275**	120K =	**156-5273**
12R =	**156-5276**	150R =	**156-5279**	1K5 =	**156-5289**	15K =	**156-5281**	150K =	**156-5277**
15R =	**156-5282**	180R =	**156-5284**	1K8 =	**156-5290**	18K =	**156-5285**	180K =	**156-5283**
18R =	**156-5286**	220R =	**156-5294**	2K2 =	**156-5301**	22K =	**156-5295**	220K =	**156-5293**
22R =	**156-5296**	270R =	**156-5298**	2K7 =	**156-5302**	27K =	**156-5299**	270K =	**156-5297**
27R =	**156-5300**	330R =	**156-5304**	3K3 =	**156-5313**	33K =	**156-5305**	330K =	**156-5303**
33R =	**156-5306**	390R =	**156-5309**	3K9 =	**156-5314**	39K =	**156-5311**	390K =	**156-5307**
39R =	**156-5312**	470R =	**156-5316**	4K7 =	**156-5318**	47K =	**156-5317**	470K =	**156-5315**
56R =	**156-5323**	560R =	**156-5320**	5K6 =	**156-5324**	56K =	**156-5322**	560K =	**156-5319**
68R =	**156-5328**	680R =	**156-5326**	6K8 =	**156-5329**	68K =	**156-5327**	680K =	**156-5325**
82R =	**156-5334**	820R =	**156-5331**	8K2 =	**156-5335**	82K =	**156-5332**	820K =	**156-5330**
100R =	**156-5270**	1K =	**156-5287**	10K =	**156-5271**	100K =	**156-5269**	1M =	**156-5292**

505574

Order Code	Price Each 10+	300+	1K+	5K+	15K+
All Values ●					

0.4 Watt ±5% – SFR25 Series

L=7.0 max, Dia=2.5 max Lead length=26 nom, Lead dia=0.6

Supplied bandoliered on tape (box=1K pcs)

Power rating @ 70°C	400mW	Operating temperature	-55°C to +155°C
Voltage rating	250V	Temperature coefficient	±250ppm/°C

Stocked in the following OHMIC Values:

1R =	**947-6539**	1R5 =	**947-6555**	2R2 =	**947-6709**	3R3 =	**947-6849**	4R7 =	**947-6920**
1R2 =	**947-6547**	1R8 =	**947-6563**	2R7 =	**947-6717**	3R9 =	**947-6857**	5R6 =	**947-6997**

RoHS ● Compliant ▲ Non-compliant

6R8 =	947-7063	120R =	947-6342	2K2 =	947-6652	39K =	947-6784	680K =	947-7004
8R2 =	947-7136	150R =	947-6385	2K7 =	947-6660	47K =	947-6881	820K =	947-7071
10R =	947-6326	180R =	947-6423	3K3 =	947-6806	56K =	947-6954	1M =	947-6490
12R =	947-6369	220R =	947-6580	3K9 =	947-6814	68K =	947-7020	1M2 =	947-6504
15R =	947-6407	270R =	947-6628	4K7 =	947-6903	82K =	947-7098	1M5 =	947-6512
18R =	947-6440	330R =	947-6733	5K6 =	947-6970	100K =	947-6288	1M8 =	947-6520
22R =	947-6601	390R =	947-6776	6K8 =	947-7047	120K =	947-6334	2M2 =	947-6687
27R =	947-6644	470R =	947-6873	8K2 =	947-7110	150K =	947-6377	2M7 =	947-6695
33R =	947-6750	560R =	947-6946	10K =	947-6300	180K =	947-6415	3M3 =	947-6822
39R =	947-6792	680R =	947-7012	12K =	947-6350	220K =	947-6571	3M9 =	947-6830
47R =	947-6890	820R =	947-7080	15K =	947-6393	270K =	947-6610	4M7 =	947-6911
56R =	947-6962	1K =	947-6458	18K =	947-6431	330K =	947-6725	5M6 =	947-6989
68R =	947-7039	1K2 =	947-6466	22K =	947-6598	390K =	947-6768	6M8 =	947-7055
82R =	947-7101	1K5 =	947-6474	27K =	947-6636	470K =	947-6865	8M2 =	947-7128
100R =	947-6296	1K8 =	947-6482	33K =	947-6741	560K =	947-6938	10M =	947-6318

207405

	Price Each				
Order Code	50+	300+	3K+	10K+	30K+
All Values ●					

0.5 Watt ±1% – MF50 Series

L=10.0 Dia=3.5 Lead length=28.0 Lead dia=0.6 Supplied bandoliered on tape (box=1K PCS)

Power rating @ 70°C	500mW	Operating temperature	-55°C to +155°C
Voltage rating	350V	Temperature coefficient	±50ppm/°C
Maximum overload voltage	700V		

Stocked in the following OHMIC Values:

1R =	933-9825	68R =	934-0866	820R =	934-0939	9K1 =	934-0998	100K =	933-9795
1R5 =	934-0033	75R =	934-0920	910R =	934-0980	10K =	933-9787	110K =	933-9868
2R2 =	934-0246	82R =	934-0971	1K =	933-9779	11K =	933-9850	120K =	933-9914
3R3 =	934-0459	91R =	934-1021	1K1 =	933-9841	12K =	933-9906	130K =	933-9965
4R7 =	934-0661	100R =	933-9760	1K2 =	933-9892	13K =	933-9957	150K =	934-0017
6R8 =	934-0874	110R =	933-9833	1K3 =	933-9949	15K =	934-0009	160K =	934-0076
10R =	933-9817	120R =	933-9884	1K5 =	933-9990	16K =	934-0068	180K =	934-0122
11R =	933-9876	130R =	933-9930	1K6 =	934-0050	18K =	934-0114	200K =	934-0173
12R =	933-9922	150R =	933-9981	1K8 =	934-0106	20K =	934-0165	220K =	934-0220
13R =	933-9973	160R =	934-0041	2K =	934-0157	22K =	934-0211	240K =	934-0289
15R =	934-0025	180R =	934-0092	2K2 =	934-0203	24K =	934-0270	270K =	934-0335
16R =	934-0084	200R =	934-0149	2K4 =	934-0262	27K =	934-0327	300K =	934-0386
18R =	934-0130	220R =	934-0190	2K7 =	934-0319	30K =	934-0378	330K =	934-0432
20R =	934-0181	240R =	934-0254	3K =	934-0360	33K =	934-0424	360K =	934-0491
22R =	934-0238	270R =	934-0300	3K3 =	934-0416	36K =	934-0483	390K =	934-0548
24R =	934-0297	300R =	934-0351	3K6 =	934-0475	39K =	934-0530	430K =	934-0599
27R =	934-0343	330R =	934-0408	3K9 =	934-0521	43K =	934-0580	470K =	934-0645
30R =	934-0394	360R =	934-0467	4K3 =	934-0572	47K =	934-0637	510K =	934-0700
33R =	934-0440	390R =	934-0513	4K7 =	934-0629	51K =	934-0696	560K =	934-0750
36R =	934-0505	430R =	934-0564	5K1 =	934-0688	56K =	934-0742	620K =	934-0807
39R =	934-0556	470R =	934-0610	5K6 =	934-0734	62K =	934-0793	680K =	934-0858
43R =	934-0602	510R =	934-0670	6K2 =	934-0785	68K =	934-0840	750K =	934-0912
47R =	934-0653	560R =	934-0726	6K8 =	934-0831	75K =	934-0904	820K =	934-0963
51R =	934-0718	620R =	934-0777	7K5 =	934-0890	82K =	934-0955	910K =	934-1013
56R =	934-0769	680R =	934-0823	8K2 =	934-0947	91K =	934-1005	1M =	933-9809
62R =	934-0815	750R =	934-0882						

207219

	Price Each			
Order Code	50+	500+	1K+	5K+
All Values ●				

Metal Film ±1% Resistor Kits

- 0.125, 0.25 and 0.5 watt metal film resistor kits
- E6, E12 and E24 series of values
- 100 pieces of each preferred value from 10R to 1M

E6	Series	10, 15, 22, 33, 47, 68 (100 each of 31 values)
E12	Series	10, 12, 15, 18, 22, 27, 33, 39, 47, 56, 68, 82 (100 each of 61 values)
E24	Series	10, 11, 12, 13, 15, 16, 18, 20, 22, 24, 27, 30, 33, 39, 43, 47, 51, 56, 62, 68, 75, 82, 91 (100 each of 121 values)

207254

		Price Each		
0.125 Watt	Order Code	1+	3+	6+
E6 Kit	934-3660●			
E12 Kit	934-3679●			
E24 Kit	934-3687●			
0.25 Watt				
E6 Kit	934-2362●			
E12 Kit	934-2370●			
E24 Kit	934-2389●			
0.5 Watt				
E6 Kit	934-1030●			
E12 Kit	934-1048●			
E24 Kit	934-1056●			

0.5 Watt ±1% – MFR4 Series

L = 7 max. Dia = 2.3 max. Lead length = 23 nom., Lead dia. = 0.6

Supplied bandoliered on tape.

Fully approved to **BS9111 NO16** and available to **CECC 40101-019/FZ** and **CECC 40101-803/BC** release. Approved only in the range 10R to 1M.

	500mW commercial	Voltage rating	250V
	0.25W 100ppm release	Operating temperature	-55°C to +155°C
Power rating @ 70°C	0.125W 50ppm release	Temperature coefficient	50ppm/°C

Stocked in the following OHMIC Values:

1R =	109-9824	39R =	109-9856	510R =	109-9884	6K2 =	109-9983	82K =	110-0012
1R2 =	109-9825	43R =	109-9857	560R =	109-9885	6K8 =	109-9984	91K =	110-0013
1R5 =	109-9827	47R =	109-9858	600R =	109-9886	7K5 =	109-9985	100K =	110-0015
2R2 =	109-9828	51R =	109-9859	620R =	109-9888	8K2 =	109-9986	110K =	110-0016
2R7 =	109-9829	56R =	109-9860	680R =	109-9889	9K1 =	109-9987	120K =	110-0017
3R3 =	109-9830	62R =	109-9861	750R =	109-9890	10K =	109-9988	130K =	110-0018
3R9 =	109-9831	68R =	109-9862	820R =	109-9891	11K =	109-9989	150K =	110-0019
4R7 =	109-9832	75R =	109-9864	910R =	109-9892	12K =	109-9990	160K =	110-0020
5R6 =	109-9833	82R =	109-9865	1K =	109-9893	13K =	109-9992	180K =	110-0021
6R2 =	109-9834	91R =	109-9866	1K1 =	109-9894	15K =	109-9993	200K =	110-0022
6R8 =	109-9835	100R =	109-9867	1K2 =	109-9895	16K =	109-9994	220K =	110-0023
7R5 =	109-9836	110R =	109-9868	1K3 =	109-9896	18K =	109-9995	240K =	110-0024
8R2 =	109-9837	120R =	109-9869	1K5 =	109-9897	20K =	109-9996	270K =	110-0025
9R1 =	109-9839	130R =	109-9870	1K6 =	109-9898	22K =	109-9997	300K =	110-0027
10R =	109-9841	150R =	109-9871	1K8 =	109-9900	24K =	109-9998	330K =	110-0028
11R =	109-9842	160R =	109-9872	2K =	109-9901	27K =	109-9999	360K =	110-0029
12R =	109-9843	180R =	109-9873	2K2 =	109-9970	30K =	110-0000	390K =	110-0030
13R =	109-9844	200R =	109-9874	2K4 =	109-9971	33K =	110-0001	430K =	110-0031
15R =	109-9845	220R =	110-0334	2K7 =	109-9972	36K =	110-0003	470K =	110-0032
16R =	109-9846	240R =	109-9876	3K =	109-9973	39K =	110-0004	510K =	110-0033
18R =	109-9847	270R =	109-9877	3K3 =	109-9974	43K =	110-0005	560K =	110-0034
20R =	109-9848	300R =	109-9878	3K6 =	109-9975	47K =	110-0006	620K =	110-0035
22R =	109-9849	330R =	109-9879	3K9 =	109-9976	51K =	110-0007	680K =	110-0036
24R =	109-9850	360R =	109-9880	4K3 =	109-9977	56K =	110-0008	750K =	110-0037
27R =	109-9852	390R =	109-9881	4K7 =	109-9979	62K =	110-0009	820K =	110-0039
30R =	109-9853	430R =	109-9882	5K1 =	109-9981	68K =	110-0010	910K =	110-0041
33R =	109-9854	470R =	109-9883	5K6 =	109-9982	75K =	110-0011	1M =	110-0042
36R =	109-9855								

These products are available to full documented release, upon request.

	Price Each			
Order Code	50+	500+	1K+	2K+
All Values ●				

Resistor Kit

- Suitable for stocking education and laboratories
- Contains 50 pieces each of 136 values

207406

		Price Each
Order Code	Mftrs. List Nio.	1+
159-3565●	MFR4 KIT	

0.5 Watt ±5% – SFR16S Series

L=3.4 max, Dia.=1.7 max

Lead length=26nom, Lead dia.=0.5

Supplied bandoliered on tape (box=5K pcs)

Power rating @ 70°C	500mW	Temperature coefficient	1R to 100K ±100ppm/°C
Voltage rating	200V		120K to 1M ±250ppm/°C
Operating temperature	-55°C to +155°C		

Stocked in the following OHMIC Values:

1R =	947-5770	18R =	947-5702	330R =	947-5931	5K6 =	947-6148	82K =	947-6245
1R2 =	947-5761	22R =	947-5834	390R =	947-5974	6K8 =	947-6202	100K =	947-5559
1R5 =	947-5788	27R =	947-5877	470R =	947-6059	8K2 =	947-6261	120K =	947-5591
1R8 =	947-5796	33R =	947-5958	560R =	947-6113	10K =	947-5575	150K =	947-5630
2R2 =	947-5907	39R =	947-5990	680R =	947-6172	12K =	947-5613	180K =	947-5672
2R7 =	947-5915	47R =	947-6075	820R =	947-6237	15K =	947-5656	220K =	947-5800
3R3 =	947-6024	56R =	947-6130	1K =	947-5729	18K =	947-5699	270K =	947-5842
3R9 =	947-6032	68R =	947-6199	1K2 =	947-5710	22K =	947-5826	330K =	947-5923
4R7 =	947-6091	82R =	947-6253	1K5 =	947-5737	27K =	947-5869	390K =	947-5966
5R6 =	947-6156	100R =	947-5567	1K8 =	947-5745	33K =	947-5940	470K =	947-6040
6R8 =	947-6210	120R =	947-5605	2K2 =	947-5885	39K =	947-5982	560K =	947-6105
8R2 =	947-6270	150R =	947-5648	2K7 =	947-5893	47K =	947-6067	680K =	947-6164
10R =	947-5583	180R =	947-5680	3K3 =	947-6008	56K =	947-6121	820K =	947-6229
12R =	947-5621	220R =	947-5818	3K9 =	947-6016	68K =	947-6180	1M =	947-5753
15R =	947-5664	270R =	947-5850	4K7 =	947-6083				

207211

	Price Each				
Order Code	10+	300+	3K+	10K+	30K+
All Values ●					

IMPROVED BACK ORDER DELIVERY

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0.6 Watt ±1% – MRS25 Series

L=7 max, Dia=2.5 max Lead length=26 nom, Lead dia=0.6
Supplied bandoliered on tape (box=1K pcs)

Power rating @ 70°C	600mW		
Voltage rating	350V350V	Temperature coefficient	± 50ppm/°C
	1%		
Operating temperature	-55°C to +155°C		

Power rating @ 70°C	600mW	Operating temperature	-55°C to +155°C
Temperature coefficient	± 50ppm/°C	Stocked in the following OHMIC Values:	
Voltage rating	350V		

Stocked in the following OHMIC Values:

1R	**946-5561**	8R66	**947-0522**	56R	**946-9087**	340R	**946-7408**	2K	**946-6673**
1R02	**946-5570**	9R09	**947-0808**	56R2	**946-9095**	348R	**946-7424**	2K05	**946-6681**
1R05	**946-5588**	9R1	**947-0816**	57R6	**946-9133**	357R	**946-7483**	2K1	**946-6690**
1R07	**946-5596**	9R53	**947-0824**	59R	**946-9176**	360R	**946-7521**	2K15	**946-6703**
1R1	**946-5600**	10R	**946-4026**	60R4	**946-9419**	365R	**946-7548**	2K2	**946-6711**
1R13	**946-5618**	10R2	**946-4034**	61R9	**946-9451**	374R	**946-7602**	2K21	**946-6720**
1R15	**946-5626**	10R5	**946-4042**	62R	**946-9494**	383R	**946-7645**	2K26	**946-6738**
1R2	**946-5634**	10R7	**946-4050**	63R4	**946-9532**	390R	**946-7688**	2K32	**946-6746**
1R21	**946-5642**	11R	**946-4182**	64R9	**946-9575**	392R	**946-7700**	2K37	**946-6754**
1R24	**946-5650**	11R3	**946-4190**	66R5	**946-9613**	402R	**946-8145**	2K4	**946-6762**
1R27	**946-5669**	11R5	**946-4204**	68R	**946-9680**	412R	**946-8188**	2K43	**946-6770**
1R3	**946-5677**	11R8	**946-4212**	68R1	**946-9699**	422R	**946-8226**	2K49	**946-6789**
1R33	**946-5685**	12R	**946-4344**	69R8	**946-9737**	430R	**946-8269**	2K55	**946-6797**
1R37	**946-5693**	12R1	**946-4352**	71R5	**946-9923**	432R	**946-8285**	2K61	**946-6800**
1R4	**946-5707**	12R4	**946-4360**	73R2	**946-9966**	442R	**946-8340**	2K67	**946-6819**
1R43	**946-5715**	12R7	**946-4379**	75R	**947-0000**	453R	**946-8382**	2K7	**946-6827**
1R47	**946-5723**	13R	**946-4476**	76R8	**947-0042**	464R	**946-8420**	2K74	**946-6835**
1R5	**946-5731**	13R3	**946-4484**	78R7	**947-0085**	470R	**946-8463**	2K8	**946-6843**
1R54	**946-5740**	13R7	**946-4492**	80R6	**947-0220**	475R	**946-8480**	2K87	**946-6851**
1R58	**946-5758**	14R	**946-4590**	82R	**947-0298**	487R	**946-8544**	2K94	**946-6860**
1R6	**946-5766**	14R3	**946-4603**	82R5	**947-0301**	499R	**946-8587**	3K	**946-7750**
1R62	**946-5774**	14R7	**946-4611**	84R5	**947-0344**	510R	**946-8838**	3K01	**946-7769**
1R65	**946-5782**	15R	**946-4719**	86R6	**947-0387**	511R	**946-8854**	3K09	**946-7777**
1R69	**946-5790**	15R4	**946-4727**	88R7	**947-0425**	523R	**946-8919**	3K16	**946-7793**
1R74	**946-5804**	15R8	**946-4735**	90R9	**947-0565**	536R	**946-8951**	3K24	**946-7807**
1R78	**946-5812**	16R	**946-4867**	91R	**947-0603**	549R	**946-8994**	3K3	**946-7823**
1R8	**946-5820**	16R2	**946-4875**	93R1	**947-0646**	560R	**946-9036**	3K32	**946-7831**
1R82	**946-5839**	16R5	**946-4883**	95R3	**947-0697**	562R	**946-9052**	3K4	**946-7840**
1R87	**946-5847**	16R9	**946-4891**	97R6	**947-0735**	576R	**946-9117**	3K48	**946-7858**
1R91	**946-5855**	17R4	**946-4964**	100R	**946-3909**	590R	**946-9150**	3K57	**946-7866**
1R96	**946-5863**	18R	**946-5065**	102R	**946-3925**	600R	**946-9362**	3K6	**946-7874**
2R	**946-6916**	18R2	**946-5073**	105R	**946-3941**	604R	**946-9397**	3K65	**946-7882**
2R05	**946-6924**	18R7	**946-5081**	107R	**946-3968**	619R	**946-9435**	3K74	**946-7890**
2R1	**946-6932**	19R1	**946-5154**	110R	**946-4077**	620R	**946-9478**	3K83	**946-7904**
2R15	**946-6940**	19R6	**946-5162**	113R	**946-4093**	634R	**946-9516**	3K9	**946-7912**
2R2	**946-6959**	20R	**946-5936**	115R	**946-4115**	649R	**946-9559**	3K92	**946-7920**
2R21	**946-6967**	20R5	**946-5944**	118R	**946-4131**	665R	**946-9591**	4K02	**946-8617**
2R26	**946-6975**	21R	**946-6010**	120R	**946-4239**	680R	**946-9630**	4K12	**946-8625**
2R32	**946-6983**	21R5	**946-6029**	121R	**946-4255**	681R	**946-9656**	4K22	**946-8633**
2R37	**946-6991**	22R	**946-6126**	124R	**946-4271**	698R	**946-9710**	4K3	**946-8641**
2R4	**946-7009**	22R1	**946-6134**	127R	**946-4298**	715R	**946-9907**	4K32	**946-8650**
2R43	**946-7017**	22R6	**946-6142**	130R	**946-4395**	732R	**946-9940**	4K42	**946-8668**
2R49	**946-7025**	23R2	**946-6215**	133R	**946-4417**	750R	**946-9982**	4K53	**946-8676**
2R55	**946-7033**	23R7	**946-6223**	137R	**946-4433**	768R	**947-0026**	4K64	**946-8684**
2R61	**946-7041**	24R	**946-6320**	140R	**946-4514**	787R	**947-0069**	4K7	**946-8692**
2R67	**946-7050**	24R3	**946-6339**	143R	**946-4530**	806R	**947-0204**	4K75	**946-8706**
2R7	**946-7068**	24R9	**946-6347**	147R	**946-4557**	820R	**947-0247**	4K87	**946-8714**
2R74	**946-7076**	25R5	**946-6380**	150R	**946-4638**	825R	**947-0263**	4K99	**946-8722**
2R8	**946-7084**	26R1	**946-6452**	154R	**946-4654**	845R	**947-0328**	5K1	**946-9184**
2R87	**946-7092**	26R7	**946-6460**	158R	**946-4670**	866R	**947-0360**	5K11	**946-9192**
2R94	**946-7106**	27R	**946-6533**	160R	**946-4751**	887R	**947-0409**	5K23	**946-9206**
3R	**946-7980**	27R4	**946-6541**	162R	**946-4778**	909R	**947-0549**	5K36	**946-9214**
3R01	**946-7998**	28R	**946-6614**	165R	**946-4794**	910R	**947-0581**	5K49	**946-9222**
3R09	**946-8005**	28R7	**946-6622**	169R	**946-4816**	931R	**947-0620**	5K6	**946-9230**
3R16	**946-8013**	29R4	**946-6665**	174R	**946-4913**	953R	**947-0670**	5K62	**946-9249**
3R3	**946-8021**	30R	**946-7203**	178R	**946-4930**	976R	**947-0719**	5K76	**946-9257**
3R32	**946-8030**	30R1	**946-7211**	180R	**946-4980**	1K	**946-5170**	5K9	**946-9265**
3R4	**946-8048**	30R9	**946-7220**	182R	**946-5006**	1K02	**946-5189**	6K04	**946-9745**
3R48	**946-8056**	31R6	**946-7262**	187R	**946-5022**	1K05	**946-5197**	6K19	**946-9753**
3R57	**946-8064**	32R4	**946-7300**	191R	**946-5103**	1K07	**946-5200**	6K2	**946-9761**
3R6	**946-8072**	33R	**946-7378**	196R	**946-5120**	1K1	**946-5219**	6K34	**946-9770**
3R65	**946-8080**	33R2	**946-7386**	200R	**946-5880**	1K13	**946-5227**	6K49	**946-9788**
3R74	**946-8099**	34R	**946-7459**	205R	**946-5901**	1K15	**946-5235**	6K65	**946-9796**
3R83	**946-8102**	34R8	**946-7467**	210R	**946-5960**	1K18	**946-5243**	6K8	**946-9800**
3R9	**946-8110**	35R7	**946-7505**	215R	**946-5987**	1K2	**946-5251**	6K81	**946-9818**
3R92	**946-8129**	36R	**946-7572**	220R	**946-6045**	1K21	**946-5260**	6K98	**946-9826**
4R12	**946-8757**	36R5	**946-7580**	221R	**946-6061**	1K24	**946-5278**	7K15	**947-0093**
4R22	**946-8765**	37R4	**946-7629**	226R	**946-6088**	1K27	**946-5286**	7K32	**947-0107**
4R3	**946-8773**	38R3	**946-7661**	232R	**946-6169**	1K3	**946-5294**	7K5	**947-0115**
4R32	**946-8781**	39R	**946-7734**	237R	**946-6185**	1K33	**946-5308**	7K68	**947-0123**
4R42	**946-8790**	39R2	**946-7742**	240R	**946-6240**	1K37	**946-5316**	7K87	**947-0131**
4R7	**946-8803**	40R2	**946-8161**	243R	**946-6266**	1K4	**946-5324**	8K06	**947-0433**
4R87	**946-8811**	41R2	**946-8200**	249R	**946-6282**	1K43	**946-5332**	8K2	**947-0441**
5R1	**946-9290**	42R2	**946-8242**	255R	**946-6363**	1K47	**946-5340**	8K25	**947-0450**
5R11	**946-9303**	43R	**946-8315**	261R	**946-6401**	1K5	**946-5359**	8K45	**947-0468**
5R36	**946-9311**	43R2	**946-8323**	267R	**946-6428**	1K54	**946-5367**	8K66	**947-0476**
5R6	**946-9320**	44R2	**946-8366**	270R	**946-6487**	1K58	**946-5375**	8K87	**947-0484**
5R62	**946-9338**	45R3	**946-8404**	274R	**946-6509**	1K6	**946-5383**	9K09	**947-0743**
5R9	**946-9346**	46R4	**946-8447**	280R	**946-6568**	1K62	**946-5391**	9K1	**947-0751**
6R19	**946-9850**	47R	**946-8510**	287R	**946-6584**	1K65	**946-5405**	9K31	**947-0760**
6R2	**946-9869**	47R5	**946-8528**	294R	**946-6649**	1K69	**946-5413**	9K53	**947-0778**
6R49	**946-9877**	48R7	**946-8560**	300R	**946-7122**	1K74	**946-5421**	9K76	**947-0786**
6R8	**946-9885**	49R9	**946-8609**	301R	**946-7149**	1K78	**946-5430**	10K	**946-3976**
7R15	**947-0158**	51R	**946-8889**	309R	**946-7165**	1K8	**946-5448**	10K2	**946-3984**
7R5	**947-0166**	51R1	**946-8897**	316R	**946-7246**	1K82	**946-5456**	10K5	**946-3992**
7R87	**947-0182**	52R3	**946-8935**	324R	**946-7289**	1K87	**946-5464**	10K7	**946-4000**
8R2	**947-0506**	53R6	**946-8978**	330R	**946-7327**	1K91	**946-5472**	11K	**946-4140**
8R25	**947-0514**	54R9	**946-9010**	332R	**946-7343**	1K96	**946-5480**	11K3	**946-4158**
11K5	**946-4166**	32K4	**946-7297**	84K5	**947-0336**	240K	**946-6231**	619K	**946-9427**
11K8	**946-4174**	33K	**946-7351**	86K6	**947-0379**	243K	**946-6258**	620K	**946-9460**
12K	**946-4301**	33K2	**946-7360**	88K7	**947-0417**	249K	**946-6274**	634K	**946-9508**
12K1	**946-4310**	34K	**946-7432**	90K9	**947-0557**	255K	**946-6355**	649K	**946-9540**
12K4	**946-4328**	34K8	**946-7440**	91K	**947-0590**	261K	**946-6398**	665K	**946-9583**
12K7	**946-4336**	35K7	**946-7491**	93K1	**947-0638**	267K	**946-6410**	680K	**946-9621**
13K	**946-4441**	36K	**946-7556**	95K3	**947-0689**	270K	**946-6479**	681K	**946-9648**
13K3	**946-4450**	36K5	**946-7564**	97K6	**947-0727**	274K	**946-6495**	698K	**946-9702**
13K7	**946-4468**	37K4	**946-7610**	100K	**946-3895**	280K	**946-6550**	715K	**946-9893**
14K	**946-4565**	38K3	**946-7653**	102K	**946-3917**	287K	**946-6576**	732K	**946-9931**
14K3	**946-4573**	39K	**946-7718**	105K	**946-3933**	294K	**946-6630**	750K	**946-9974**
14K7	**946-4581**	39K2	**946-7726**	107K	**946-3950**	300K	**946-7114**	768K	**947-0018**
15K	**946-4689**	40K2	**946-8153**	110K	**946-4069**	301K	**946-7130**	787K	**947-0050**
15K4	**946-4697**	41K2	**946-8196**	113K	**946-4085**	309K	**946-7157**	806K	**947-0190**
15K8	**946-4700**	42K2	**946-8234**	115K	**946-4107**	316K	**946-7238**	820K	**947-0239**
16K	**946-4824**	43K	**946-8293**	118K	**946-4123**	324K	**946-7270**	825K	**947-0255**
16K2	**946-4832**	43K2	**946-8307**	120K	**946-4220**	330K	**946-7319**	845K	**947-0310**
16K5	**946-4840**	44K2	**946-8358**	121K	**946-4247**	332K	**946-7335**	866K	**947-0352**
16K9	**946-4859**	45K3	**946-8390**	124K	**946-4263**	340K	**946-7394**	887K	**947-0395**
17K4	**946-4948**	46K4	**946-8439**	127K	**946-4280**	348K	**946-7416**	909K	**947-0530**
17K8	**946-4956**	47K	**946-8498**	130K	**946-4387**	357K	**946-7475**	910K	**947-0573**
18K	**946-5030**	47K5	**946-8501**	133K	**946-4409**	360K	**946-7513**	931K	**947-0611**
18K2	**946-5049**	48K7	**946-8552**	137K	**946-4425**	365K	**946-7530**	953K	**947-0654**
18K7	**946-5057**	49K9	**946-8595**	140K	**946-4506**	374K	**946-7599**	976K	**947-0700**
19K1	**946-5138**	51K	**946-8862**	143K	**946-4522**	383K	**946-7637**	1M	**946-5499**
19K6	**946-5146**	51K1	**946-8870**	147K	**946-4549**	390K	**946-7670**	1M1	**946-5502**
20K	**946-5910**	52K3	**946-8927**	150K	**946-4620**	392K	**946-7696**	1M2	**946-5510**
20K5	**946-5928**	53K6	**946-8960**	154K	**946-4646**	402K	**946-8137**	1M3	**946-5529**
21K	**946-5995**	54K9	**946-9001**	158K	**946-4662**	412K	**946-8170**	1M5	**946-5537**
21K5	**946-6002**	56K	**946-9060**	160K	**946-4743**	422K	**946-8218**	1M6	**946-5545**
22K	**946-6096**	56K2	**946-9079**	162K	**946-4760**	430K	**946-8250**	1M8	**946-5553**
22K1	**946-6100**	57K6	**946-9125**	165K	**946-4786**	432K	**946-8277**	2M	**946-6878**
22K6	**946-6118**	59K	**946-9168**	169K	**946-4808**	442K	**946-8331**	2M2	**946-6886**
23K2	**946-6193**	60K4	**946-9400**	174K	**946-4905**	453K	**946-8374**	2M4	**946-6894**
23K7	**946-6207**	61K9	**946-9443**	178K	**946-4921**	464K	**946-8412**	2M7	**946-6908**
24K	**946-6290**	62K	**946-9486**	180K	**946-4972**	470K	**946-8455**	3M	**946-7939**
24K3	**946-6304**	63K4	**946-9524**	182K	**946-4999**	475K	**946-8471**	3M3	**946-7947**
24K9	**946-6312**	64K9	**946-9567**	187K	**946-5014**	487K	**946-8536**	3M6	**946-7955**
25K5	**946-6371**	66K5	**946-9605**	191K	**946-5090**	499K	**946-8579**	3M9	**946-7963**
26K1	**946-6436**	68K	**946-9664**	196K	**946-5111**	510K	**946-8820**	4M3	**946-8730**
26K7	**946-6444**	68K1	**946-9672**	200K	**946-5871**	511K	**946-8846**	4M7	**946-8749**
27K	**946-6517**	69K8	**946-9729**	205K	**946-5898**	523K	**946-8900**	5M1	**946-9273**
27K4	**946-6525**	71K5	**946-9915**	210K	**946-5952**	536K	**946-8943**	5M6	**946-9281**
28K	**946-6592**	73K2	**946-9958**	215K	**946-5979**	549K	**946-8986**	6M2	**946-9834**
28K7	**946-6606**	75K	**946-9990**	220K	**946-6037**	560K	**946-9028**	6M8	**946-9842**
29K4	**946-6657**	76K8	**947-0034**	221K	**946-6053**	562K	**946-9044**	7M5	**947-0140**
30K	**946-7173**	78K7	**947-0077**	226K	**946-6070**	576K	**946-9109**	8M2	**947-0492**
30K1	**946-7181**	80K6	**947-0212**	232K	**946-6150**	590K	**946-9141**	9M1	**947-0794**
30K9	**946-7190**	82K	**947-0271**	237K	**946-6177**	604K	**946-9389**	10M	**946-4018**
31K6	**946-7254**	82K5	**947-0280**						

207410

Order Code	50+	300+	3K+	10K+

0.75 Watt ±1% – MFR5 Series

L=10 max, Dia=3.2 max Lead length=21 nom, Lead dia=0.8
Supplied bandoliered on tape (box=2K pcs)

Fully approved to **BS9111-NO16** and available to **CECC 40101-019/EZ** release.

	750mW commercial		1%
Power rating @ 70°C	0.5W 100ppm release	Operating temperature	-55°C to +155°C
Voltage rating	350V	Temperature coefficient	100ppm/°C

Stocked in the following OHMIC Values:

10R = **949-7366**	120R = **949-7382**	1K = **949-7498**	12K = **949-7390**	120K = **949-7374**
12R = **949-7404**	150R = **949-7420**	1K2 = **949-7501**	15K = **949-7439**	150K = **949-7412**
15R = **949-7447**	180R = **949-7463**	1K5 = **949-7510**	18K = **949-7471**	180K = **949-7455**
18R = **949-7480**	220R = **949-7552**	1K8 = **949-7528**	22K = **949-7560**	220K = **949-7544**
22R = **949-7579**	270R = **949-7595**	2K2 = **949-7625**	27K = **949-7609**	270K = **949-7587**
27R = **949-7617**	330R = **949-7650**	2K7 = **949-7633**	33K = **949-7668**	330K = **949-7641**
33R = **949-7676**	390R = **949-7692**	3K3 = **949-7722**	39K = **949-7706**	390K = **949-7684**
39R = **949-7714**	470R = **949-7757**	3K9 = **949-7730**	47K = **949-7765**	470K = **949-7749**
47R = **949-7773**	560R = **949-7803**	4K7 = **949-7781**	56K = **949-7811**	560K = **949-7790**
56R = **949-7820**	620R = **949-7846**	5K6 = **949-7838**	68K = **949-7870**	680K = **949-7854**
68R = **949-7889**	680R = **949-7862**	6K8 = **949-7897**	82K = **949-7935**	820K = **949-7919**
82R = **949-7943**	750R = **949-7900**	8K2 = **949-7951**	100K = **949-7331**	1M = **949-7536**
100R = **949-7340**	820R = **949-7927**	10K = **949-7358**		

These products are available to full documented release, upon request.

207411

	Price Each			
Order Code	10+	500+	1K+	10K+
All Values ●				

1 Watt ±5% – MFP1 Series

Voltage rating	350V
Operating temperature	-55°C to +155°C
Temperature coefficient	1Ω - 9.1Ω = ± 50ppm/°C
	≥10Ω = ± 200ppm/°C

L=6.2 max, Dia=2.5 max,
Lead length = 21 min, Lead dia. = 0.6 nom

RoHS ● Compliant ▲ Non-compliant

Stocked in the following OHMIC Values:

1R =	156-5359	18R =	156-5352	330R =	156-5378	5K6 =	156-5402	82K =	156-5413
1R2 =	156-5360	22R =	156-5366	390R =	156-5383	6K8 =	156-5408	100K =	156-5336
1R5 =	156-5361	27R =	156-5372	470R =	156-5391	8K2 =	156-5415	120K =	156-5340
1R8 =	156-5362	33R =	156-5380	560R =	156-5398	10K =	156-5338	150K =	156-5344
2R2 =	156-5375	39R =	156-5385	680R =	156-5405	12K =	156-5342	180K =	156-5349
2R7 =	156-5376	47R =	156-5393	820R =	156-5411	15K =	156-5347	220K =	156-5363
3R3 =	156-5388	56R =	156-5401	1K =	156-5353	18K =	156-5351	270K =	156-5367
3R9 =	156-5389	68R =	156-5407	1K2 =	156-5354	22K =	156-5365	330K =	156-5377
4R7 =	156-5396	82R =	156-5414	1K5 =	156-5355	27K =	156-5371	390K =	156-5381
5R6 =	156-5403	100R =	156-5337	1K8 =	156-5356	33K =	156-5379	470K =	156-5390
6R8 =	156-5409	120R =	156-5341	2K2 =	156-5373	39K =	156-5384	560K =	156-5397
8R2 =	156-5416	150R =	156-5346	2K7 =	156-5374	47K =	156-5392	680K =	156-5404
10R =	156-5339	180R =	156-5350	3K3 =	156-5386	56K =	156-5399	820K =	156-5410
12R =	156-5343	220R =	156-5364	3K9 =	156-5387	68K =	156-5406	1M =	156-5358
15R =	156-5348	270R =	156-5368	4K7 =	156-5395				

505571

Order Code	Price Each 10+	100+	500+	1K+	5K+
All Values ●					

1 Watt & 2 Watt ±5% – MCPMR Series

multicomp

NEW

S range
L=11mm max Dia = 4mm max
Lead length = 25 ± 3mm, Lead dia.= 0.75 ± 0.05mm

T range
L=6.5 mm max, Dia=2.5mm max
Lead length = 25 ± 3mm, Lead dia. = 0.54 ± 0.05mm

	S Range	T Range
Voltage rating	500V	500V
Operating temperature	-55°C to +155°C	-55°C to +155°C
Temperature coefficient	0.56Ω ~ 100KΩ ≤ ± 800ppm/°C 101KΩ ~ 470KΩ ≤ ± 800ppm/°C 471KΩ ~ 1MΩ ≤ ± 800ppm/°C	3.9Ω ~ 100KΩ ≤ ± 800ppm/°C 101KΩ ~ 680KΩ ≤ ± 800ppm/°C

Stocked in the following OHMIC Values:

S Range

4R7 =	197-3194	22R =	197-3199	20K =	197-3203	100K =	197-3208	270K =	197-3211
6R8 =	197-3195	6K8 =	197-3200	47K =	197-3205	220K =	197-3209	680K =	197-3212
7R5 =	197-3196	10K =	197-3201	56K =	197-3206	240K =	197-3210	1M =	197-3213
12R =	197-3197	15K =	197-3202	68K =	197-3207				

Order Code	Price Each 25+	100+	500+	1K+	5K+
4R7 - 100K ●					
220K - 1M ●					

T Range

4R7 =	197-3214	47R =	197-3218	15K =	197-3221	100K =	197-3224	470K =	197-3227
10R =	197-3215	1K5 =	197-3219	18K =	197-3222	120K =	197-3225	680K =	197-3229
39R =	197-3217	3K3 =	197-3220	56K =	197-3223	150K =	197-3226		

650869

Order Code	Price Each 25+	100+	500+	1K+	5K+
4R7 - 10R ●					
39R - 680K ●					

2 Watt ±5% – MFP2 Series

TT electronics Welwyn Components

Voltage rating	350V
Operating temperature	-55°C to +155°C
Temperature coefficient	1Ω - 9.1Ω = ± 50ppm/°C ≥10Ω = ± 200ppm/°C

L=10 max, Dia=4 max,
Lead length = 27 min, Lead dia. = 0.8 nom

Stocked in the following OHMIC Values:

1R =	156-5440	22R =	156-5446	470R =	156-5471	6K8 =	156-5488	100K =	156-5417
1R5 =	156-5441	27R =	156-5452	560R =	156-5478	8K2 =	156-5494	120K =	156-5421
1R8 =	156-5442	33R =	156-5460	680R =	156-5484	10K =	156-5419	150K =	156-5426
2R2 =	156-5455	39R =	156-5465	820R =	156-5491	12K =	156-5423	180K =	156-5430
2R7 =	156-5456	47R =	156-5474	1K =	156-5434	15K =	156-5428	220K =	156-5443
3R3 =	156-5468	56R =	156-5480	1K2 =	156-5435	18K =	156-5432	270K =	156-5447
3R9 =	156-5469	68R =	156-5487	1K5 =	156-5437	22K =	156-5445	330K =	156-5457
4R7 =	156-5476	82R =	156-5493	1K8 =	156-5438	27K =	156-5451	390K =	156-5462
5R6 =	156-5482	100R =	156-5418	2K2 =	156-5453	33K =	156-5459	390R =	156-5463
6R8 =	156-5489	120R =	156-5422	2K7 =	156-5454	39K =	156-5464	470K =	156-5470
8R2 =	156-5495	150R =	156-5427	3K3 =	156-5466	47K =	156-5472	560K =	156-5477
10R =	156-5420	180R =	156-5431	3K9 =	156-5467	56K =	156-5479	680K =	156-5483
12R =	156-5425	220R =	156-5444	4K7 =	156-5475	68K =	156-5486	820K =	156-5490
15R =	156-5429	270R =	156-5449	5K6 =	156-5481	82K =	156-5492	1M =	156-5439
18R =	156-5433	330R =	156-5458						

505572

Order Code	Price Each 10+	100+	500+	1K+	5K+
All Values ●					

Metal Oxide Film

MOR Series

multicomp

0.5, 1, 3 and 7 Watt

- Excellent non-flame coating
- High purity ceramic core
- Stable performance in diverse environment

	MOR0S2	MOR01S	MOR03S	MOR07W
Power rating @ 70°C	500W	1W	3W	7W
Resistance tolerance	±5%	±5%	±5%	±5%
Temperature coefficient	±350ppm/°C	±350ppm/°C	±350ppm/°C	±350ppm/°C

Stocked in the following OHMIC values:

MOR0S2 0.5 Watt

10R =	135-7847	68R =	135-7853	470R =	135-7858	3K3 =	135-7863	15K =	135-7868
15R =	135-7848	100R =	135-7854	680R =	135-7859	4K7 =	135-7865	22K =	135-7869
22R =	135-7849	150R =	135-7855	1K =	135-7860	6K8 =	135-7866	33K =	135-7870
33R =	135-7850	220R =	135-7856	1K5 =	135-7861	10K =	135-7867	47K =	135-7871
47R =	135-7851	330R =	135-7857	2K2 =	135-7862				

MOR01S 1 Watt

10R =	135-7872	68R =	135-7878	470R =	135-7883	3K3 =	135-7889	15K =	135-7894
15R =	135-7873	100R =	135-7879	680R =	135-7884	4K7 =	135-7891	22K =	135-7895
22R =	135-7874	150R =	135-7880	1K =	135-7885	6K8 =	135-7892	33K =	135-7896
33R =	135-7875	220R =	135-7881	1K5 =	135-7886	10K =	135-7893	47K =	135-7897
47R =	135-7877	330R =	135-7882	2K2 =	135-7887				

MOR03S 3 Watt

10R =	135-7898	68R =	135-7903	470R =	135-7909	3K3 =	135-7914	15K =	135-7919
15R =	135-7899	100R =	135-7904	680R =	135-7910	4K7 =	135-7915	22K =	135-7921
22R =	135-7900	150R =	135-7905	1K =	135-7911	6K8 =	135-7916	33K =	135-7922
33R =	135-7901	220R =	135-7907	1K5 =	135-7912	10K =	135-7917	47K =	135-7923
47R =	135-7902	330R =	135-7908	2K2 =	135-7913				

MOR07W 7 Watt

22R =	135-7924	150R =	135-7929	1K =	135-7935	6K8 =	135-7940	33K =	135-7945
33R =	135-7925	220R =	135-7930	1K5 =	135-7936	10K =	135-7941	47K =	135-7946
47R =	135-7926	330R =	135-7932	2K2 =	135-7937	15K =	135-7942	68K =	135-7947
68R =	135-7927	470R =	135-7933	3K3 =	135-7938	22K =	135-7944	100K =	135-7948
100R =	135-7928	680R =	135-7934	4K7 =	135-7939				

472860

Order Code	Price Each 5+	100+	500+	1K+	5K+
0.5 Watt MOR0S2 Series					
All Values ●					
1 Watt MOR01S Series					
All Values ●					
3 Watt MOR03S Series					
All Values ●					
7 Watt MOR07W Series					
All Values ●					

ROX Series

Tyco Electronics

Flame-Proof Power Metal Oxide Resistors
±5%, ±350ppm/°C

NEW

- High Power with Small Size for Space Saving
- Excellent Long Term Stability
- Complete Flameproof Construction
- High Surge/Overload Capability

	ROX1S	ROX2S	ROX3S
Power rating @ 70°C	1W	2W	3W
Operating temperature	-55°C to +235°C	-55°C to +235°C	-55°C to +235°C
Voltage, limiting element	350V	350V	350V
Voltage, max overload	600V	600V	600V
Body Dimensions (HxW)	3.5 x 10mm	5 x 12mm	5.5 x 16mm
Lead Dimensions (LxDia)	28 x 0.54mm	25 x 0.7mm	28 x 0.7mm
Tolerance	5%	5%	5%

ROX1S

Stocked in the following OHMIC Values:

1R =	196-1762	18R =	173-8564	330R =	173-8580	5K6 =	173-8596	82K =	196-1785
1R2 =	196-1763	22R =	173-8565	390R =	173-8581	6K8 =	173-8597	100K =	196-1757
1R5 =	196-1764	27R =	173-8566	470R =	173-8582	8K2 =	173-8599	120K =	196-1758
1R8 =	196-1765	33R =	173-8567	560R =	173-8583	10K =	173-8600	150K =	196-1759
2R2 =	196-1769	39R =	173-8568	680R =	173-8584	12K =	173-8601	180K =	196-1760
2R7 =	196-1770	47R =	173-8569	820R =	173-8585	15K =	173-8602	220K =	196-1766
3R3 =	196-1773	56R =	173-8570	1K =	173-8587	18K =	173-8603	270K =	196-1768
3R9 =	196-1774	68R =	173-8571	1K2 =	173-8588	22K =	173-8605	330K =	196-1771
4R7 =	196-1776	82R =	173-8572	1K5 =	173-8589	27K =	173-8606	390K =	196-1772
5R6 =	196-1778	100R =	173-8573	1K8 =	173-8590	33K =	173-8607	470K =	196-1775
6R8 =	196-1783	120R =	173-8575	2K2 =	173-8591	39K =	173-8608	560K =	196-1777
8R2 =	196-1786	150R =	173-8576	2K7 =	173-8592	47K =	173-8609	680K =	196-1781
10R =	173-8560	180R =	173-8577	3K3 =	173-8593	56K =	173-8610	820K =	196-1784
12R =	173-8561	220R =	173-8578	3K9 =	173-8594	68K =	196-1782	1M =	196-1761
15R =	173-8563	270R =	173-8579	4K7 =	173-8595				

Metal Oxide Film - continued

ROX Series - continued

Flame-Proof Power Metal Oxide Resistors - continued

Order Code	Price Each 25+	100+	250+	500+	2K+
All Values ●					

ROX2S

Stocked in the following OHMIC Values:

1R =	196-1790	18R =	173-8614	330R =	173-8632	5K6 =	173-8648	82K =	190-0144
1R2 =	196-1791	22R =	173-8615	390R =	173-8633	6K8 =	173-8649	100K =	190-0135
1R5 =	196-1793	27R =	173-8617	470R =	173-8634	8K2 =	173-8650	120K =	190-0136
1R8 =	196-1794	33R =	173-8618	560R =	173-8635	10K =	173-8651	150K =	196-1788
2R2 =	190-0139	39R =	173-8619	680R =	173-8636	12K =	173-8652	180K =	196-1789
2R7 =	190-0140	47R =	173-8620	820R =	173-8637	15K =	173-8654	220K =	190-0138
3R3 =	190-0141	56R =	173-8621	1K =	173-8638	18K =	173-8655	270K =	196-1795
3R9 =	196-1798	68R =	173-8622	1K2 =	173-8639	22K =	173-8656	280K =	196-1804
4R7 =	190-0143	82R =	173-8623	1K5 =	173-8640	27K =	173-8657	330K =	196-1796
5R6 =	196-1800	100R =	173-8624	1K8 =	173-8642	33K =	173-8658	390K =	196-1797
6R8 =	196-1803	120R =	173-8625	2K2 =	173-8643	39K =	173-8659	470K =	190-0142
8R2 =	190-0145	150R =	173-8626	2K7 =	173-8644	47K =	173-8660	560K =	196-1799
10R =	173-8611	180R =	173-8627	3K3 =	173-8645	56K =	173-8661	680K =	196-1801
12R =	173-8612	220R =	173-8629	3K9 =	173-8646	68K =	196-1802	1M =	190-0137
15R =	173-8613	270R =	173-8631	4K7 =	173-8647				

Order Code	Price Each 10+	100+	250+	500+	2K+
All Values ●					

ROX3S

Stocked in the following OHMIC Values:

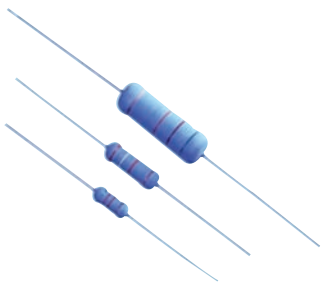
1R =	190-0118	15R =	173-8664	220R =	173-8680	3K3 =	173-8696	47K =	173-8711
1R2 =	196-1806	18R =	173-8666	270R =	173-8681	3K9 =	173-8697	56K =	173-8712
1R5 =	190-0119	22R =	173-8667	330R =	173-8682	4K7 =	173-8698	68K =	190-0131
1R8 =	190-0120	27R =	173-8668	390R =	173-8683	5K6 =	173-8699	82K =	190-0133
2R2 =	190-0124	33R =	173-8669	470R =	173-8684	6K8 =	173-8700	100K =	190-0114
2R7 =	196-1807	39R =	173-8670	560R =	173-8685	8K2 =	173-8701	120K =	196-1805
3R3 =	190-0126	47R =	173-8671	680R =	173-8686	10K =	173-8702	150K =	190-0115
3R9 =	190-0127	56R =	173-8672	820R =	173-8687	12K =	173-8703	180K =	190-0116
4R7 =	190-0129	68R =	173-8673	1K =	173-8688	15K =	173-8704	220K =	190-0121
5R6 =	190-0130	82R =	173-8674	1K2 =	173-8691	18K =	173-8705	270K =	190-0123
6R8 =	190-0132	100R =	173-8675	1K5 =	173-8692	22K =	173-8706	330K =	190-0125
8R2 =	196-1811	120R =	173-8676	1K8 =	173-8693	27K =	173-8708	470K =	190-0128
10R =	173-8662	150R =	173-8678	2K2 =	173-8694	33K =	173-8709	680K =	196-1808
12R =	173-8663	180R =	173-8679	2K7 =	173-8695	39K =	173-8710	1000K =	190-0117

541593

Order Code	Price Each 10+	100+	250+	500+	1K+
All Values ●					

WM05S Series

5 Watt



- Flameproof metal oxide resistors
- Cost effective
- Small size for power rating
- Good pulse handling capability

Resistance tolerance	±5%
Temperature coefficient	±350ppm/°C
Temperature coefficient	-55 to 155°C

L = 26, Dia. = 8.5,
Lead length = 38,
Lead dia. = 0.8

Stocked in the following OHMIC values:

10R =	130-6233	68R =	130-6241	470R =	130-6246	3K3 =	130-6253	22K =	130-6258
15R =	130-6237	100R =	130-6242	680R =	130-6247	4K7 =	130-6254	33K =	130-6259
22R =	130-6238	150R =	130-6243	1K =	130-6249	6K8 =	130-6255	47K =	130-6260
33R =	130-6239	220R =	130-6244	1K5 =	130-6251	10K =	130-6256	68K =	130-6262
47R =	130-6240	330R =	130-6245	2K2 =	130-6252	15K =	130-6257	100K =	130-6263

451981

Order Code	Price Each 5+	100+	500+	1K+	5K+
All Values ●					

MELF (Metal Film Cylindrical)

MELF 0204 and 0207

- Excellent overall stability
- Tight tolerance down to +/-0.1

NEW

SMD

Stocked in the following OHMIC values:

Case Style	Power Rating	Voltage Rating	Operating Temperature	Temperature Coefficient	Tolerance
0204	250mW	200V	-55°C to +155°C	± 15ppm/°C	± 0.1%

51R =	210-2829	300R =	210-2805	1K6 =	210-2787	9K1 =	210-2853	47K =	210-2825
56R =	210-2834	330R =	210-2809	1K8 =	210-2790	10K =	210-2771	51K =	210-2828
62R =	210-2838	360R =	210-2813	2K =	210-2794	11K =	210-2775	56K =	210-2832
68R =	210-2842	390R =	210-2816	2K2 =	210-2797	12K =	210-2779	62K =	210-2837
75R =	210-2847	430R =	210-2819	2K4 =	210-2800	13K =	210-2783	68K =	210-2841
82R =	210-2851	470R =	210-2823	2K7 =	210-2803	15K =	210-2786	75K =	210-2846
91R =	210-2855	510R =	210-2826	3K =	210-2806	16K =	210-2788	82K =	210-2850
100R =	210-2769	560R =	210-2830	3K3 =	210-2811	18K =	210-2792	91K =	210-2854
110R =	210-2773	620R =	210-2835	3K6 =	210-2814	20K =	210-2795	100K =	210-2772
120R =	210-2776	680R =	210-2839	3K9 =	210-2817	22K =	210-2798	110K =	210-2760
130R =	210-2781	750R =	210-2843	4K3 =	210-2820	24K =	210-2801	120K =	210-2762
150R =	210-2784	820R =	210-2848	4K7 =	210-2824	27K =	210-2804	130K =	210-2763
160R =	210-2856	910R =	210-2852	5K1 =	210-2827	30K =	210-2807	150K =	210-2761
180R =	210-2789	1K =	210-2770	5K6 =	210-2831	33K =	210-2812	160K =	210-2764
200R =	210-2793	1K1 =	210-2774	6K2 =	210-2836	36K =	210-2815	180K =	210-2765
220R =	210-2796	1K2 =	210-2777	6K8 =	210-2840	39K =	210-2818	200K =	210-2767
240R =	210-2799	1K3 =	210-2782	7K5 =	210-2844	43K =	210-2822	220K =	210-2768
270R =	210-2802	1K5 =	210-2785	8K2 =	210-2849				

Case Style	Power Rating	Voltage Rating	Operating Temperature	Temperature Coefficient	Tolerance
0204	250mW	200V	-55°C to +155°C	± 50ppm/°C	± 1%

0R =	210-2878	33R =	210-2938	820R =	210-2959	22K =	210-2928	470K =	210-2947
1R =	210-2861	39R =	210-2943	1K =	210-2907	27K =	210-2931	560K =	210-2952
1R2 =	210-2862	47R =	210-2949	1K2 =	210-2914	33K =	210-2935	680K =	210-2957
1R5 =	210-2863	56R =	210-2953	1K5 =	210-2918	39K =	210-2941	820K =	210-2962
1R8 =	210-2865	68R =	210-2958	1K8 =	210-2922	47K =	210-2946	1M =	210-2910
2R2 =	210-2867	82R =	210-2963	2K2 =	210-2927	56K =	210-2971	1M2 =	210-2879
2R7 =	210-2868	100R =	210-2906	2K7 =	210-2968	68K =	210-2956	1M5 =	210-2880
3R3 =	210-2872	120R =	210-2913	3K3 =	210-2934	82K =	210-2960	1M8 =	210-2864
3R9 =	210-2873	150R =	210-2917	3K9 =	210-2940	100K =	210-2909	2M2 =	210-2866
4R7 =	210-2875	180R =	210-2921	4K7 =	210-2945	120K =	210-2964	3M3 =	210-2871
0 =	210-2881	220R =	210-2926	5K6 =	210-2970	150K =	210-2965	4M7 =	210-2874
6R8 =	210-2876	270R =	210-2930	6K8 =	210-2955	180K =	210-2923	5M6 =	210-2858
8R2 =	210-2877	330R =	210-2933	8K2 =	210-2972	220K =	210-2929	6M8 =	210-2859
10R =	210-2911	390R =	210-2939	10K =	210-2908	270K =	210-2932	8M2 =	210-2860
12R =	210-2916	470R =	210-2944	12K =	210-2915	330K =	210-2937	0 =	210-2967
15R =	210-2920	560R =	210-2951	15K =	210-2919	390K =	210-2942	0 =	210-2969
18R =	210-2925	680R =	210-2954	18K =	210-2966				

Case Style	Power Rating	Voltage Rating	Operating Temperature	Temperature Coefficient	Tolerance
0207	500mW	300V	-55°C to +155°C	± 50ppm/°C	± 1%

0R =	210-2896	22R =	210-3001	560R =	210-3022	12K =	210-2982	270K =	210-3005
1R =	210-2883	27R =	210-3006	680R =	210-3027	15K =	210-2988	330K =	210-3010
1R2 =	210-2884	33R =	210-3012	820R =	210-3032	18K =	210-2992	390K =	210-3015
1R5 =	210-2885	39R =	210-3016	1K =	210-2975	22K =	210-2998	470K =	210-3020
1R8 =	210-2886	47R =	210-3021	1K2 =	210-2981	27K =	210-3004	0 =	210-3039
2R2 =	210-2887	56R =	210-3026	1K5 =	210-2987	33K =	210-3009	680K =	210-3030
2R7 =	210-2888	68R =	210-3031	1K8 =	210-2991	39K =	210-3014	820K =	210-3040
3R3 =	210-2889	82R =	210-3036	2K2 =	210-2996	47K =	210-3019	1M =	210-2978
3R9 =	210-2890	100R =	210-2974	2K7 =	210-3003	56K =	210-3025	1M2 =	210-2905
4R7 =	210-2891	120R =	210-2980	3K3 =	210-3008	68K =	210-3029	1M5 =	210-2897
5R6 =	210-2892	150R =	210-2986	3K9 =	210-3013	82K =	210-3034	1M8 =	210-2898
6R8 =	210-2893	180R =	210-2990	4K7 =	210-3018	100K =	210-2977	2M2 =	210-2899
8R2 =	210-2895	220R =	210-2995	5K6 =	210-3024	120K =	210-2983	2M7 =	210-2901
10R =	210-2979	270R =	210-3002	6K8 =	210-3028	150K =	210-3037	3M3 =	210-2902
12R =	210-2984	330R =	210-3007	8K2 =	210-3033	180K =	210-2993	3M9 =	210-2903
15R =	210-2989	390R =	210-3038	10K =	210-2976	220K =	210-2999	4M7 =	210-2904
18R =	210-2994	470R =	210-3017						

660099

Order Code	Price Each 10+	100+	500+	1K+	3K+
All Values ●					

MMU0102 Professional Series

- 0805 pad compatible
- Excellent long term stability
- High pulse load capability up to 14W to 1KV
- Very low current noise

SMD

L=2.2, Dia=1.1,
(Reel=3K pcs)

Operating voltage	100V max d.c or a.c. rms	Tolerance	±1%
Power rating @ 70°C	200mW	Temperature coefficient	50ppm/K
Operating temperature	125°C to +-55°C		

Stocked in the following OHMIC Values:

0R =	326-4920	56R =	121-5897	330R =	121-5918	1K8 =	121-5938	10K =	121-5959
10R =	121-5878	62R =	121-5898	360R =	121-5919	2K =	121-5939	11K =	121-5960
12R =	121-5880	68R =	121-5900	390R =	121-5920	2K2 =	121-5940	12K =	121-5961
13R =	121-5881	75R =	121-5901	430R =	121-5921	2K4 =	121-5941	13K =	121-5962
15R =	121-5882	82R =	121-5902	470R =	121-5922	2K7 =	121-5943	15K =	121-5963
16R =	121-5883	91R =	121-5903	510R =	121-5923	3K =	121-5944	16K =	121-5964
18R =	121-5884	100R =	121-5904	560R =	121-5924	3K3 =	121-5945	18K =	121-5965
20R =	121-5885	110R =	121-5906	620R =	121-5925	3K6 =	121-5946	20K =	121-5967
22R =	121-5886	120R =	121-5907	680R =	121-5926	3K9 =	121-5947	22K =	121-5968
24R =	121-5888	130R =	121-5908	750R =	121-5927	4K3 =	121-5948	24K =	121-5969
27R =	121-5889	150R =	121-5909	820R =	121-5928	4K7 =	121-5949	27K =	121-5970
30R =	121-5890	160R =	121-5910	910R =	121-5931	5K1 =	121-5951	30K =	121-5971
33R =	121-5891	180R =	121-5911	1K =	121-5932	5K6 =	121-5952	33K =	121-5972
36R =	121-5892	200R =	121-5912	1K1 =	121-5933	6K2 =	121-5953	36K =	121-5973
39R =	121-5893	220R =	121-5913	1K2 =	121-5934	6K8 =	121-5955	39K =	121-5974
43R =	121-5894	240R =	121-5914	1K3 =	121-5935	7K5 =	121-5956	43K =	121-5975
47R =	121-5895	270R =	121-5915	1K5 =	121-5936	8K2 =	121-5957	47K =	121-5976
51R =	121-5896	300R =	121-5916	1K6 =	121-5937	9K1 =	121-5958	51K =	121-5977

RoHS ● Compliant ▲ Non-compliant

56K =	**121-5979**	120K =	**121-5988**	270K =	**121-5997**	560K =	**121-6007**	1M2 =	**121-6015**
62K =	**121-5981**	130K =	**121-5989**	300K =	**121-5998**	620K =	**121-6008**	1M3 =	**121-6017**
68K =	**121-5982**	150K =	**121-5990**	330K =	**121-5999**	680K =	**121-6009**	1M5 =	**121-6018**
75K =	**121-5983**	160K =	**121-5992**	360K =	**121-6000**	750K =	**121-6010**	1M6 =	**121-6019**
82K =	**121-5984**	180K =	**121-5993**	390K =	**121-6002**	820K =	**121-6011**	1M8 =	**121-6020**
91K =	**121-5985**	200K =	**121-5994**	430K =	**121-6003**	910K =	**121-6012**	2M =	**121-6021**
100K =	**121-5986**	220K =	**121-5995**	470K =	**121-6005**	1M =	**121-6013**	2M2 =	**121-6022**
110K =	**121-5987**	240K =	**121-5996**	510K =	**121-6006**	1M1 =	**121-6014**		

227192

	Price Each					
Order Code	25+	50+	100+	500+	1K+	3K+
Value 0R0 RL						
Values 10R to 43R ● RL						
Values 47R to 300K ● RL						
Values 330K to 2M2 ● RL						

MMA0204 Precision Series

- 1206 pad layout compatible
- Excellent long term stability
- Capability to dissipate 0.25W
- Very low current noise
- Applications include control, sensor and measurement circuits

L=3.6, Dia=1.4, (reel=3K pcs)

Power rating @ 70°C	70mW(standard operation)	Temperature coefficient	± 15ppm/K
	70mW(precision operation)	Tolerance	±0.1%
Operating voltage	200V max d.c or a.c. rms	Operating temperature	-55°C to +85°C

Stocked in the following OHMIC Values:

43R =	**308-5612**	240R =	**308-5790**	1K3 =	**308-5971**	7K5 =	**308-6150**	43K =	**308-6331**
47R =	**308-5624**	270R =	**308-5806**	1K5 =	**308-5983**	8K2 =	**308-6161**	47K =	**308-6343**
51R =	**308-5636**	300R =	**308-5818**	1K6 =	**308-5995**	9K1 =	**308-6173**	51K =	**308-6355**
56R =	**308-5648**	330R =	**308-5820**	1K8 =	**308-6008**	10K =	**308-6185**	56K =	**308-6367**
62R =	**308-5650**	360R =	**308-5831**	2K =	**308-6010**	11K =	**308-6197**	62K =	**308-6379**
68R =	**308-5661**	390R =	**308-5843**	2K2 =	**308-6021**	12K =	**308-6203**	68K =	**308-6380**
75R =	**308-5673**	430R =	**308-5855**	2K4 =	**308-6033**	13K =	**308-6215**	75K =	**308-6392**
82R =	**308-5685**	470R =	**308-5867**	2K7 =	**308-6045**	15K =	**308-6227**	82K =	**308-6409**
91R =	**308-5697**	510R =	**308-5879**	3K =	**308-6057**	16K =	**308-6239**	91K =	**308-6410**
100R =	**308-5703**	560R =	**308-5880**	3K3 =	**308-6069**	18K =	**308-6240**	100K =	**308-6422**
110R =	**308-5715**	620R =	**308-5892**	3K6 =	**308-6070**	20K =	**308-6252**	110K =	**308-6434**
120R =	**308-5727**	680R =	**308-5909**	3K9 =	**308-6082**	22K =	**308-6264**	120K =	**308-6446**
130R =	**308-5739**	750R =	**308-5910**	4K3 =	**308-6094**	24K =	**308-6276**	130K =	**308-6458**
150R =	**308-5740**	820R =	**308-5922**	4K7 =	**308-6100**	27K =	**308-6288**	150K =	**308-6460**
160R =	**308-5752**	910R =	**308-5934**	5K1 =	**308-6112**	30K =	**308-6290**	160K =	**308-9551**
180R =	**308-5764**	1K =	**308-5946**	5K6 =	**308-6124**	33K =	**308-6306**	180K =	**308-9563**
200R =	**308-5776**	1K1 =	**308-5958**	6K2 =	**308-6136**	36K =	**308-6318**	200K =	**308-9575**
220R =	**308-5788**	1K2 =	**308-5960**	6K8 =	**308-6148**	39K =	**308-6320**	220K =	**308-9587**

207337

	Price Each				
Order Code	5+	50+	100+	500+	1K+
All Values ● RL					

Mini Melf WRM0204 Series – 0.25 Watt ±0.1%

- High reliability precision melf resistors
- Predictable pulse handling capability

L=3.6, Dia=1.4

Case Style	Power Rating	Voltage Rating (V)	Operating Temperature	Temperature Coefficient	Tolerance
0204	250mW	200V	-55°C to +125°C	± 15ppm/°C	± 1%

Stocked in the following OHMIC Values:

180R =	**150-5911**	680R =	**150-5918**	1K8 =	**150-5926**	5K6 =	**150-5933**	27K =	**150-5941**
270R =	**150-5913**	820R =	**150-5921**	2K7 =	**150-5928**	10K =	**150-5936**	33K =	**150-5942**
390R =	**150-5915**	1K =	**150-5923**	3K3 =	**150-5929**	12K =	**150-5937**	39K =	**150-5943**
470R =	**150-5916**	1K2 =	**150-5924**	3K9 =	**150-5930**	22K =	**150-5940**	82K =	**150-5949**
560R =	**150-5917**	1K5 =	**150-5925**	4K7 =	**150-5931**				

493975

	Price Each				
Order Code	25+	100+	250+	500+	1K+
All Values ●					

RL **FREE Re-reeling service.** Only buy what you need and improve assembly efficiency. For more information visit **local website**

Mini Melf WRM0204 Series – 0.25 Watt ±1%

- High reliability melf resistors
- Predictable pulse handling capability

L=3.6, Dia=1.4

Case Style	Power Rating	Voltage Rating (V)	Operating Temperature	Temperature Coefficient	Tolerance
0204	250mW	200V	-55°C to +125°C	± 50ppm/°C	±± 1%

Stocked in the following OHMIC Values:

10R =	**150-5777**	120R =	**150-5791**	1K2 =	**150-5805**	10K =	**150-5817**	82K =	**150-5829**
12R =	**150-5778**	150R =	**150-5792**	1K5 =	**150-5806**	12K =	**150-5818**	100K =	**150-5831**
15R =	**150-5779**	180R =	**150-5793**	1K8 =	**150-5807**	15K =	**150-5819**	120K =	**150-5832**
22R =	**150-5781**	220R =	**150-5794**	2K2 =	**150-5808**	18K =	**150-5820**	150K =	**150-5833**
27R =	**150-5782**	270R =	**150-5795**	2K7 =	**150-5809**	22K =	**150-5821**	180K =	**150-5834**
33R =	**150-5783**	330R =	**150-5796**	3K3 =	**150-5810**	27K =	**150-5822**	220K =	**150-5835**
39R =	**150-5784**	390R =	**150-5797**	3K9 =	**150-5811**	33K =	**150-5823**	270K =	**150-5836**
47R =	**150-5785**	470R =	**150-5799**	4K7 =	**150-5812**	39K =	**150-5824**	330K =	**150-5837**
56R =	**150-5787**	560R =	**150-5800**	5K6 =	**150-5813**	47K =	**150-5825**	390K =	**150-5838**
68R =	**150-5788**	680R =	**150-5801**	6K8 =	**150-5814**	56K =	**150-5826**	470K =	**150-5839**
82R =	**150-5789**	820R =	**150-5802**	8K2 =	**150-5815**	68K =	**150-5827**	560K =	**150-5840**
100R =	**150-5790**	1K =	**150-5803**						

493917

	Price Each				
Order Code	25+	100+	250+	500+	1K+
All Values ●					

Mini Melf WRM0204 Series - 0.25 Watt±1%

- High reliability melf resistors
- Predictable pulse handling capability

L=3.6mm Dia=1.4mm

Case Style (V)	Power Rating	Voltage Rating	Operating Temperature	Temperature Coefficient	Tolerance
0204	250mW	200V	-55°C to +125°C	± 50ppm/°C	± 1%

Stocked in the following OHMIC values:

10R =	**150-5777**	120R =	**150-5791**	1K2 =	**150-5805**	10K =	**150-5817**	82K =	**150-5829**
12R =	**150-5778**	150R =	**150-5792**	1K5 =	**150-5806**	12K =	**150-5818**	100K =	**150-5831**
15R =	**150-5779**	180R =	**150-5793**	1K8 =	**150-5807**	15K =	**150-5819**	120K =	**150-5832**
22R =	**150-5781**	220R =	**150-5794**	2K2 =	**150-5808**	18K =	**150-5820**	150K =	**150-5833**
27R =	**150-5782**	270R =	**150-5795**	2K7 =	**150-5809**	22K =	**150-5821**	180K =	**150-5834**
33R =	**150-5783**	330R =	**150-5796**	3K3 =	**150-5810**	27K =	**150-5822**	220K =	**150-5835**
39R =	**150-5784**	390R =	**150-5797**	3K9 =	**150-5811**	33K =	**150-5823**	270K =	**150-5836**
47R =	**150-5785**	470R =	**150-5799**	4K7 =	**150-5812**	39K =	**150-5824**	330K =	**150-5837**
56R =	**150-5787**	560R =	**150-5800**	5K6 =	**150-5813**	47K =	**150-5825**	390K =	**150-5838**
68R =	**150-5788**	680R =	**150-5801**	6K8 =	**150-5814**	56K =	**150-5826**	470K =	**150-5839**
82R =	**150-5789**	1K =	**150-5803**	8K2 =	**150-5815**	68K =	**150-5827**	560K =	**150-5840**
100R =	**150-5790**								

627895

	Price Each				
Order Code	25+	100+	250+	500+	1K+
All Values ●					

MMA0204 Professional Series

- 1206 pad layout compatible
- Excellent long term stability
- High pulse load capacity up to 28W or 2kV
- Very low current noise
- Applications include control, sensor, measurement and input circuits

L=3.6, Dia=1.4, (reel=3K pcs)

Power rating @ 70°C	250mW70°C	Temperature coefficient	± 50ppm/K
Operating voltage	200V max d.c or a.c. rms	Tolerance	±1%
Operating temperature	-55°C to +125°C		

Stocked in the following OHMIC Values:

0R =	**308-7414**	10R =	**308-7542**	120R =	**308-7670**	1K5 =	**308-7803**	18K =	**308-7931**
1R =	**308-7426**	12R =	**308-7554**	150R =	**308-7682**	1K8 =	**308-7815**	22K =	**308-7943**
1R2 =	**308-7438**	15R =	**308-7566**	180R =	**308-7694**	2K2 =	**308-7827**	27K =	**308-7955**
1R5 =	**308-7440**	18R =	**308-7578**	220R =	**308-7700**	2K7 =	**308-7839**	33K =	**308-7967**
1R8 =	**308-7451**	22R =	**308-7580**	270R =	**308-7712**	3K3 =	**308-7840**	39K =	**308-7979**
2R2 =	**308-7463**	27R =	**308-7591**	330R =	**308-7724**	3K9 =	**308-7852**	47K =	**308-7980**
2R7 =	**308-7475**	33R =	**308-7608**	390R =	**308-7736**	4K7 =	**308-7864**	56K =	**308-7992**
3R3 =	**308-7487**	39R =	**308-7610**	470R =	**308-7748**	5K6 =	**308-7876**	68K =	**308-8005**
3R9 =	**308-7499**	47R =	**308-7621**	560R =	**308-7750**	6K8 =	**308-7888**	82K =	**308-8017**
4R7 =	**308-7505**	56R =	**308-7633**	680R =	**308-7761**	8K2 =	**308-7890**	100K =	**308-8029**
5R6 =	**308-7517**	68R =	**308-7645**	820R =	**308-7773**	10K =	**308-7906**	120K =	**308-8030**
6R8 =	**308-7529**	82R =	**308-7657**	1K =	**308-7785**	12K =	**308-7918**	150K =	**308-8042**
8R2 =	**308-7530**	100R =	**308-7669**	1K2 =	**308-7797**	15K =	**308-7920**	180K =	**308-8054**

MELF (Metal Film Cylindrical) - continued

MMA0204 Professional Series - continued

220K = **308-8066**	560K = **308-8110**	1M2 = **308-8157**	2M7 = **308-8194**	5M6 = **308-8236**
270K = **308-8078**	680K = **308-8121**	1M5 = **308-8169**	3M3 = **308-8200**	6M8 = **308-8248**
330K = **308-8080**	820K = **308-8133**	1M8 = **308-8170**	3M9 = **308-8212**	8M2 = **308-8250**
390K = **308-8091**	1M = **308-8145**	2M2 = **308-8182**	4M7 = **308-8224**	10M = **308-8261**
470K = **308-8108**				

207336

Order Code	25+	50+	100+	500+	1K+	3K+
Value 0R0● RL						
Values 1R to 82R● RL						
Values 100R to 2K2● RL						
Values 2K7 to 10M● RL						

Mini Melf WRM0207 Series – 0.4 Watt ±1%

- High reliability melf resistors
- Predictable pulse handling capability

L=6.0, Dia=2.2

Case Style	Power Rating	Voltage Rating (V)	Operating Temperature	Temperature Coefficient	Tolerance
0207	400mW	250V	-55°C to +125°C	± 50ppm/°C	± 1%

Stocked in the following OHMIC Values:

10R = **150-5842**	100R = **150-5855**	820R = **150-5867**	4K7 = **150-5878**	82K = **150-5895**
12R = **150-5843**	120R = **150-5856**	1K = **150-5868**	5K6 = **150-5879**	100K = **150-5896**
18R = **150-5845**	180R = **150-5858**	1K5 = **150-5870**	10K = **150-5882**	120K = **150-5897**
22R = **150-5846**	220R = **150-5859**	1K8 = **150-5871**	12K = **150-5883**	150K = **150-5898**
27R = **150-5847**	270R = **150-5860**	2K2 = **150-5872**	27K = **150-5887**	220K = **150-5900**
39R = **150-5849**	330R = **150-5861**	2K7 = **150-5873**	33K = **150-5888**	390K = **150-5903**
47R = **150-5850**	390R = **150-5862**	3K3 = **150-5874**	39K = **150-5891**	470K = **150-5905**
56R = **150-5851**	470R = **150-5863**	3K9 = **150-5875**	68K = **150-5894**	560K = **150-5906**
82R = **150-5854**				

493969

Order Code	Price Each 25+	100+	250+	500+	1K+
All Values ●					

MMB0207 Professional Series

- Excellent long term stability
- High pulse load capability up to 70W or 3kV, very low current noise
- 1 Watt power dissipation capability with derating
- Applications include control systems and power input circuits

L=5.8, Dia=2.2 (reel=2Kpcs)

Power rating @ 70°C	400mW (1W with derating)	Tolerance	±1%
Operating voltage	300V max d.c or a.c. rms	Operating temperature	-55°C to +125°C
Temperature coefficient	± 50ppm/K		

Stocked in the following OHMIC Values:

0R = **308-6471**	22R = **308-6641**	560R = **308-6811**	15K = **308-6987**	390K = **308-7153**
1R = **308-6483**	27R = **308-6653**	680R = **308-6823**	18K = **308-6999**	470K = **308-7165**
1R2 = **308-6495**	33R = **308-6665**	820R = **308-6835**	22K = **308-7001**	560K = **308-7177**
1R5 = **308-6501**	39R = **308-6677**	1K = **308-6847**	27K = **308-7013**	680K = **308-7189**
1R8 = **308-6513**	47R = **308-6689**	1K2 = **308-6859**	33K = **308-7025**	820K = **308-7190**
2R2 = **308-6525**	56R = **308-6690**	1K5 = **308-6860**	39K = **308-7037**	1M = **308-7207**
2R7 = **308-6537**	68R = **308-6707**	1K8 = **308-6872**	47K = **308-7049**	1M2 = **308-7219**
3R3 = **308-6549**	82R = **308-6719**	2K2 = **308-6884**	56K = **308-7050**	1M5 = **308-7220**
3R9 = **308-6550**	100R = **308-6720**	2K7 = **308-6896**	68K = **308-7062**	1M8 = **308-7232**
4R7 = **308-6562**	120R = **308-6732**	3K3 = **308-6902**	82K = **308-7074**	2M2 = **308-7244**
5R6 = **308-6574**	150R = **308-6744**	3K9 = **308-6914**	100K = **308-7086**	2M7 = **308-7256**
6R8 = **308-6586**	180R = **308-6756**	4K7 = **308-6926**	120K = **308-7098**	3M3 = **308-7268**
8R2 = **308-6598**	220R = **308-6768**	5K6 = **308-6938**	150K = **308-7104**	3M9 = **308-7270**
10R = **308-6604**	270R = **308-6770**	6K8 = **308-6940**	180K = **308-7116**	4M7 = **308-7281**
12R = **308-6616**	330R = **308-6781**	8K2 = **308-6951**	220K = **308-7128**	5M6 = **308-7293**
15R = **308-6628**	390R = **308-6793**	10K = **308-6963**	270K = **308-7130**	6M8 = **308-7300**
18R = **308-6630**	470R = **308-6800**	12K = **308-6975**	330K = **308-7141**	8M2 = **308-7311**

207335

Order Code	Price Each 10+	50+	100+	500+	1K+	2K+
Value 0R0● RL						
Values 1R to 82R● RL						
Values 100R to 2K2● RL						
Values 2K7 to 8M2● RL						

High Pulse Load MELF Resistor

CMB 0207

- Up to 10 kV or 17 kW single pulse capability
- AEC - Q200 Qualified

Power rating @ 70°C	1W	Operating Temperature	-55°C to +155°C
Voltage Rating	500V	Tolerance	± 5%

Stocked in the following OHMIC Values:

2R2 = **171-3608**	68R = **171-3615**	1K = **171-3624**	12K = **171-3631**	120K = **171-3638**
4R7 = **171-3609**	100R = **171-3616**	1K2 = **171-3625**	15K = **171-3633**	150K = **171-3639**
10R = **171-3610**	120R = **171-3617**	1K5 = **171-3626**	22K = **171-3634**	220K = **171-3640**
12R = **171-3611**	150R = **171-3618**	2K2 = **171-3627**	47K = **171-3635**	470K = **171-3641**
15R = **171-3612**	220R = **171-3621**	4K7 = **171-3628**	68K = **171-3636**	680K = **171-3642**
22R = **171-3613**	470R = **171-3622**	6K8 = **171-3629**	100K = **171-3637**	1M = **171-3643**
47R = **171-3614**	680R = **171-3623**	10K = **171-3630**		

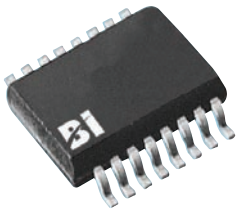
536547

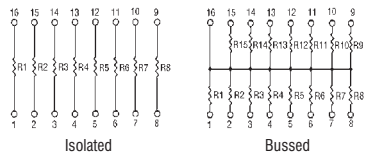
Order Code	Price Each 5+	50+	100+	500+	1K+
All Values ●					

Network/Arrays & Dividers - Networks

SQS Series

0.635mm (0.025") Pitch





Isolated Bussed

- Isolated and bussed circuits
- Thin film resistor network

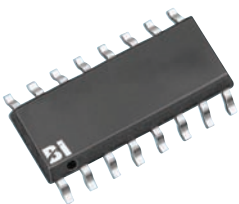
Power rating	600mW	Operating Temperature Range	-55°C to +125°C
Temperature Coefficient	± 100ppm/°C	Voltage Rating	100
No. of Elements - Bussed	15	Tolerance, Resistance	± 5%
No. of Elements - Isolated	8		

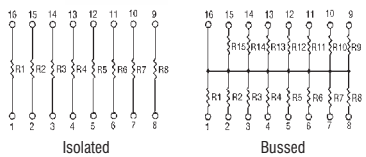
534232

Resistance	Order Code	Price Each 1+	25+	50+	100+	500+
Bussed						
330R	**170-4575●**					
1K	**170-4577●**					
4K7	**170-4578●**					
10K	**170-4579●**					
Isolated						
51R	**170-4581●**					
68R	**170-4582●**					
220R	**170-4583●**					
510R	**170-4585●**					
680R	**170-4586●**					
1K	**170-4587●**					
2K2	**170-4589●**					
10K	**170-4591●**					
20K	**170-4592●**					

SSN Series

1.27mm (0.05") Pitch





Isolated Bussed

- Isolated and bussed circuits
- Thin film resistor network

Power rating	800mW	Operating Temperature Range	-55°C to +125°C
Temperature Coefficient	± 100ppm/°C	Voltage Rating	100
No. of Elements - Bussed	15	Tolerance, Resistance	± 5%
No. of Elements - Isolated	8		

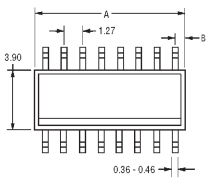
534237

RoHS ● Compliant ▲ Non-compliant

Resistance	Order Code	Price Each 1+	25+	50+	100+	500+
Bussed						
470R	**170-4593** ●					
4K7	**170-4596** ●					
10K	**170-4597** ●					
Isolated						
22R	**170-4598** ●					
33R	**170-4599** ●					
47R	**170-4600** ●					
100R	**170-4601** ●					
220R	**170-4602** ●					
330R	**170-4603** ●					
470R	**170-4604** ●					
1K	**170-4605** ●					
2K2	**170-4607** ●					
4K7	**170-4608** ●					
10K	**170-4609** ●					

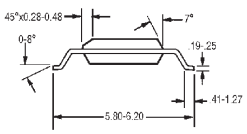
VSOR Series - DIL Surface Mount

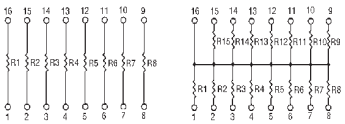
1.27mm (0.05") Pitch



Dimensions

A	B
9.8 to 9.98	0.51





- Bussed or isolated circuits
- 16 pin small outline package
- Tantalum nitride on silicone technology
- Compatible with automatic insertion equipment

Power rating per element	100mW	TCR tracking	±10ppm/°C
Resistance tolerance	±5%	TCR absolute	±100ppm/°C
Maximum voltage	50V d.c.		

Stocked in the following OHMIC Values:

VSOR 1601 Bussed Resistors

470R = **120-3464** 1K = **120-3465** 4K7 = **120-3467** 10K = **120-3468**

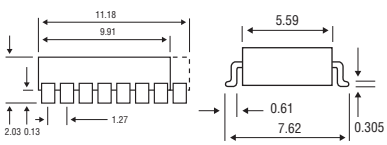
VSOR 1603 Isolated Resistors

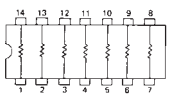
22R = **120-3449** 330R = **120-3455** 1K = **120-3457** 4K7 = **120-3461**
100R = **120-3452** 470R = **120-3456** 2K2 = **120-3458** 10K = **120-3462**
220R = **120-3453**

207307

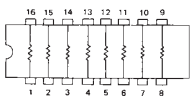
Style	Order Code	Price Each 1+	25+	50+	100+	500+
VSOR 1601	**All Values** ●					
VSOR 1603	**All Values** ●					

Surface Mount - Moulded Dual In-Line

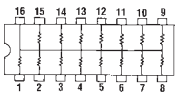




4814P-T01
(7 resistors, 14 pins)



4816P-T01
(8 resistors, 16 pins)



4816P-T02
(15 resistors, 16 pins)

Surface mount thick film resistor networks having 7 and 8 isolated resistors or 15 bussed resistors of equal value. Laser marked on a gold epoxy coating for permanent identification. Compatible with automatic placement equipment and all popular soldering techniques.

Power rating @ 70°C	Voltage rating
4814P Series	Resistance T.C.
4816P Series	Insulation resistance
Resistance tolerance	Operating temperature
Resistance T.C. tracking	

Stocked in the following OHMIC Values:

4814P-T01

470R = **935-7424** 1K = **935-7378** 2K2 = **935-7408** 4K7 = **935-7432** 10K = **935-7386**

4816P-T01

10R = **935-7440** 220R = **935-7505** 2K2 = **935-7513** 10K = **935-7475** 100K = **935-7483**
33R = **935-7521** 470R = **935-7530** 4K7 = **935-7548** 47K = **935-7556** 1M = **935-7491**
100R = **935-7459** 1K = **935-7467**

4816P-T02

100R = **935-7564** 470R = **935-7637** 2K2 = **935-7629** 10K = **935-7580** 100K = **935-7599**
220R = **935-7610** 1K = **935-7572** 4K7 = **935-7645** 47K = **935-7653** 1M = **935-7602**

207198

Style	Order Code	Price Each 5+	50+	100+	500+	1K+
4814P-T01	**All Values** ●					
4816P-T01	**All Values** ●					
4816P-T02	**All Values** ●					

Z-Foil Network Resistor

NEW

- High precision network resistor
- Low TCR, low current noise and low voltage stability
- Excellent load life stability and Non sensitivity to ESD

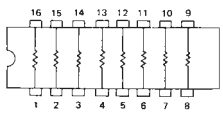
Resistance Kohm	Power Rating (mW)	Tolerance	Temperature Coefficient	Voltage Rating (V)	Mftrs. List No.	Order Code
5	400	± 0.02%	± 1ppm/°C	1.4	Y1747V0019QT9R	186-7904
10	400	± 0.02%	± 1ppm/°C	2	Y1747V0008QT9R	186-7905

624195

Order Code	Price Each 1+	5+	10+	25+	50+
All Values ●					

RMKMS816 Series - DIL Surface Mount

- High stability nichrome film technology
- Close tolerance
- Low TCR



L = 10, W = 4.0
Lead spacing = 6.3 to 6.6, Lead pitch = 2.54
(8 resistors, 16 pins)

Power rating @ 70°C	50mW/element	TCR tracking	±5ppm/°C max
Absolute tolerance	±0.1%	TCR absolute	±15ppm/°C (-55 to 125°C)
Ratio tolerance	±0.05%		±10ppm/°C (0 to 70°C)
Operating temperature	-55°C to +125°C		

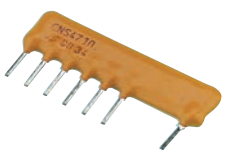
Stocked in the following OHMIC Values:

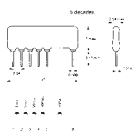
1K = **116-5213** 10K = **116-5212** 100K = **116-5211**

207308

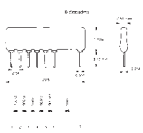
Order Code	Price Each 1+	5+	10+	25+	50+
Values 1K to 10K ●					
Values 100K ●					

CNS471 Series - 5 & 6 Decades





5 Decades



6 Decades

- High stability nichrome thin film technology
- Compact SIL package
- Close tolerance, low TCR
- High voltage

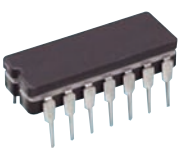
Divider values		Absolute tolerance	0.1%
5 decades	9M/900K/90K/9K/1K	Ratio tolerance	0.03% to 0.1%
6 decades	9M/900K/90K/9K/900R/100R	TCR absolute	<25ppm/°C
Voltage rating	1200V	Voltage coefficient	<2.5ppm°C

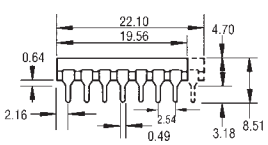
207303

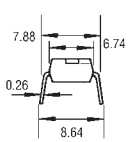
Style	Order Code	Price Each 1+	5+	10+	25+	50+
5 Decades	**116-5209** ●					
6 Decades	**116-5210** ●					

Network/Arrays & Dividers - Arrays

Moulded Dual In-Line Package

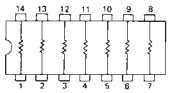




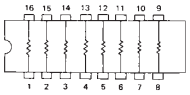


Network/Arrays & Dividers - Arrays - continued

Moulded Dual In-Line Package - continued



4114R-001
(7 resistors, 14 pins)



4116R-001
(8 resistors, 16 pins)

Thick film resistor networks having 7 and 8 isolated resistors of equal value. Laser marked on a gold epoxy coating for permanent identification.

Power Rating

4116R Series	2.25W	Insulation Resistance	
4114R Series	2W	Voltage Rating	100V
Resistance Tolerance	± 2%	Operating Temperature	-55°C to +125°C
Temperature Coefficient	± 100ppm/°C		

Stocked in the following OHMIC values:

4114R-001

47R = **935-5715** 220R = **935-5677** 470R = **935-5723** 2K2 = **935-5685** 10K = **935-5642**
100R = **935-5626** 270R = **935-5707** 1K = **935-5634** 4K7 = **935-5731**

4116R-001

10R = **935-5804** 100R = **935-5812** 330R = **935-5936** 1K5 = **935-5863** 10K = **935-5839**
22R = **935-5871** 150R = **935-5855** 470R = **935-5960** 2K2 = **935-5898** 22K = **935-5901**
33R = **935-5928** 220R = **935-5880** 680R = **935-6002** 3K3 = **935-5944** 47K = **935-5987**
47R = **935-5952** 270R = **935-5910** 1K = **935-5820** 4K7 = **935-5979** 100K = **935-5847**
68R = **935-5995**

627900

Style	Order Code	Price Each 5+	100+	500+	1K+
4114R-001	**All Values** ●				
4116R-001	**All Values** ●				

Thick Film Chip Array

0201 Case Size

- Thick film flat array
- Contribute to higher-density mounting and reduction in size of devices by remarkably PCB
- Contribute to the size reduction of small electronic equipment such as Mobile phone, HDD
- Reduced the mounting time by decreasing the number of components
- Suitable for IR reflow soldering
- Dimensions: CN-21: L = 0.8 W = 0.6 H = 0.35mm, CN-41: L = 1.4 W = 0.6 H = 0.35mm

Power rating	31.25mW	Temperature Coefficient	± 200ppm/°C
Resistance tolerance	± 5%	Operating Temperature	-55°C to 125°C
Maximum voltage	12.5V		

Stocked in the following OHMIC values

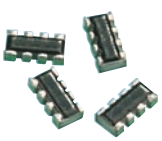
10R = **206-3291** 22R = **206-3297** 1M = **206-3303** 33K = **206-3307** 47R = **206-3312**
1K = **206-3292** 220R = **206-3298** 120R = **206-3304** 470K = **206-3308** 56R = **206-3313**
10K = **206-3294** 10R = **206-3299** 22K = **206-3305** 68R = **206-3309** 560R = **206-3314**
100K = **206-3295** 10K = **206-3301** 330R = **206-3306** 0R = **206-3310** 2K2 = **206-3315**
1M = **206-3296** 100K = **206-3302**

659380

Order Code	Price Each 25+	50+	100+	1K+	10K+
All Values ● RL					

Thick Film Chip Array

0804 Case Size



- Four 0402 SM Resistors on one 0804 package
- Suitable for both IR reflow soldering and wave soldering.

Power rating	62.5mW
Resistance tolerance	± 1%
Maximum voltage	25V
Temperature Coefficient	± 200ppm/°C
Operating Temperature	-55°C to +125°C

L=1 W=2 H=0.45

Stocked in the following OHMIC values

100R = **171-1697** 1K = **171-1699** 10K = **171-1701** 100K = **171-1704**
470R = **171-1698** 4K7 = **171-1700** 47K = **171-1703**

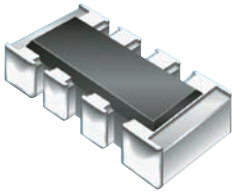
535967

Order Code	Price Each 25+	50+	100+	1K+	10K+
All Values ● RL					

RL **FREE Re-reeling service.** Only buy what you need and improve assembly efficiency. For more information visit **local website**

CAY 10 Series

4 x 0402 Elements



- 4 isolated resistors in one 0804 package
- Convex termination style
- Resistance tolerance ± 5 %

Power Rating Per Resistor	63 mW
Package Power Rating	125 mW
Max. Working Voltage	25 V
Operating Temp. Range	-55 °C to +125 °C
Package Size	0804
Resistance Tolerance	± 5%

H = 0.35, W = 2, D = 1mm

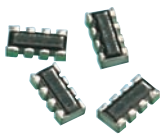
CAY10 ± 5% - (Convex terminations) Stocked in the following OHMIC Values

10R = 177-0144 33R = 177-0146 56R = 200-8288 1K = 200-8285 10K = 177-0152
10R = 200-8280 47R = 177-0148 100R = 177-0149 4K7 = 177-0151 10K = 200-8287
22R = 177-0145 47R = 200-8283 330R = 177-0150 4K7 = 200-8286 100R = 200-8284
22R = 200-8281

549028

Order Code	Price Each 50+	250+	1K+	10K+
All Values●				

TC122/124 Series



- TC122 2x 0402 Concave Terminals
- TC124 4x 0402 Concave Terminals

Power rating	63mW
Resistance tolerance	± 5%%
Maximum voltage	50V
Temperature Op. range	-55°C to +125°C
Temperature Coefficient	± 200ppm/°C

TC122

Stocked in the following OHMIC values

0R = **177-9383** 100R = **177-9386** 1K = **177-9389** 22K = **177-9393** 220K = **177-9397**
22R = **177-9384** 220R = **177-9387** 2K2 = **177-9390** 47K = **177-9395** 470K = **177-9398**
47R = **177-9385** 470R = **177-9388** 4K7 = **177-9391** 100K = **177-9396**

TC124

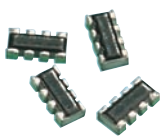
Stocked in the following OHMIC values

0R = **177-9399** 220R = **177-9404** 2K2 = **177-9407** 22K = **177-9410** 100K = **177-9413**
22R = **177-9401** 470R = **177-9405** 4K7 = **177-9408** 47K = **177-9411** 470K = **177-9415**
47R = **177-9402** 1K = **177-9406** 10K = **177-9409**

554338

	Order Code	Price Each 100+	500+	1K+	5K+	10K+
TC122	**All Values** ●					
TC124	**All Values** ●					

0804 Case Size



- Four 0402 surface mount resistors on one 0804 package

Supplied on tape (reel = 10Kpcs)

Power rating	0.063W
Resistance tolerance	5%
Maximum voltage	50V a.c/d.c
Climatic category (IEC68)	55/125/56

L=2 W=1 H=0.5

Stocked in the following OHMIC values

0R = **923-5221** 47R = **923-5280** 330R = **923-5337** 4K7 = **923-5400** 47K = **923-5442**
10R = **923-5248** 68R = **923-5299** 470R = **923-5345** 10K = **923-5418** 68K = **923-5450**
15R = **923-5256** 100R = **923-5302** 1K = **923-5361** 15K = **923-5426** 100K = **923-5469**
22R = **923-5264** 150R = **923-5310** 2K2 = **923-5388** 22K = **923-5434** 1M = **923-5515**
33R = **923-5272** 220R = **923-5329** 3K3 = **923-5396**

207366

	Order Code	Price Each 10+	50+	100+	1K+	5K+
ARV 341	**All Values** ● RL					

0616 Case Size

- Eight 0402 surface mount resistors in one 0616 size package.

L=4.00mm, W=1.60mm, H=0.45mm

Power rating	62.5mW	Maximum voltage	50V
Resistance tolerance	5%		

Stocked in the following OHMIC values

0R = **137-7038** 33R = **137-7042** 100R = **137-7045** 1K = **137-7053** 10K = **137-7059**
10R = **137-7039** 47R = **137-7043** 150R = **137-7046** 4K7 = **137-7057** 47K = **137-7064**
22R = **137-7041** 68R = **137-7044** 680R = **137-7052**

477010

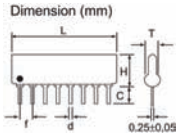
Order Code	Price Each 10+	50+	100+	1K+	5K+
All Values ● RL					

RoHS ● Compliant ▲ Non-compliant

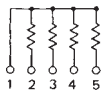
MCRNL Series

multicomp

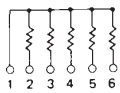
NEW



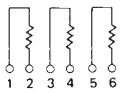
Schematic Diagrams



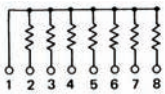
A05G
(4 resistors, 5 pins)
L max=12.7



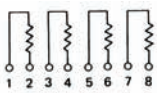
A06G
(5 resistors, 6 pins)
L max=15.3



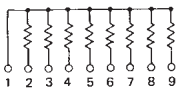
B06G
(3 resistors, 6 pins)
L max=15.3



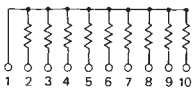
A08G
(7 resistors, 8 pins)
L max=20.4



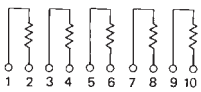
B08G
(4 resistors, 8 pins)
L max=20.4



A09G
(8 resistors, 9 pins)
L max=22.9



A10G
(9 resistors, 10 pins)
L max=25.4



B10G
(5 resistors, 10 pins)
L max=25.4

Thick film, isolated, resistor networks in 5, 6, 8, 9 or 10 pin. The dielectric withstanding voltage shows no evidence of flashover, mechanical damage, arcing or insulation breakdown.

Power rating @ 70°C	200mW(Single Common) 125mW(Isolated)
temperature coefficient	± 200ppm/°C Max (50Ω to 1MΩ)
temperature coefficient	± 250ppm/°C (< 50Ω and > 1MΩ) Max
Voltage rating	100V dc
Operating temperature	-55°C to +125°C

Stocked in the following OHMIC Values:

A05G
10K = **197-3116**

A06G
100R = **197-3117** 1K = **197-3119** 10K = **197-3121** 100K = **197-3123** 470K = **197-3124**
220R = **197-3118** 4K7 = **197-3120** 22K = **197-3122**

B06G
1K = **197-3160** 2K2 = **197-3161** 10K = **197-3163** 100K = **197-3164**

A08G
470R = **197-3126** 3K3 = **197-3128** 10K = **197-3130** 220K = **197-3132** 470K = **197-3133**
1K = **197-3127** 4K7 = **197-3129** 47K = **197-3131**

B08G
10R = **197-3165** 220R = **197-3169** 680R = **197-3173** 4K7 = **197-3178** 100K = **197-3181**
82R = **197-3166** 270R = **197-3170** 1K5 = **197-3175** 22K = **197-3179** 470K = **197-3182**
150R = **197-3167** 330R = **197-3171** 2K2 = **197-3176** 47K = **197-3180** 1M = **197-3183**
100R = **197-3168** 470R = **197-3172** 3K3 = **197-3177**

A09G
100R = **197-3134** 1K = **197-3138** 4K7 = **197-3140** 15K = **197-3142** 470K = **197-3144**
150R = **197-3135** 1K5 = **197-3139** 10K = **197-3141** 220K = **197-3143** 1M = **197-3145**
270R = **197-3136**

A10G
100R = **197-3146** 1K = **197-3151** 4K7 = **197-3154** 22K = **197-3156** 100K = **197-3158**
150R = **197-3147** 2K2 = **197-3152** 10K = **197-3155** 47K = **197-3157** 1M = **197-3159**
470R = **197-3148** 3K3 = **197-3153**

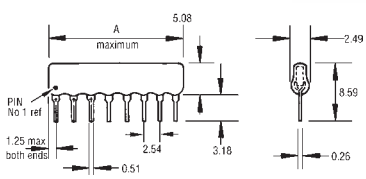
B10G
33R = **197-3184** 220R = **197-3185** 1K = **197-3187** 4K7 = **197-3188**

650677

Style	Order Code	Price Each 10+	50+	100+	500+
A05G	All Values●				
A06G	All Values●				
B06G	All Values●				
A08G	All Values●				
B08G	All Values●				
A09G	All Values●				
A10G	All Values●				
B10G	All Values●				

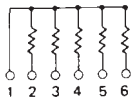
Conformal Single In-Line Package

BOURNS

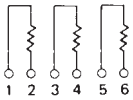


Schematic Diagrams

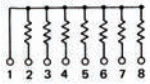
4605X-101
(4 resistors, 5 pins)
A max=12.65



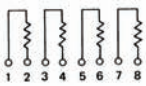
4606X-101
(5 resistors, 6 pins)
A max=15.19



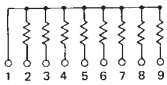
4606X-102
(3 resistors, 6 pins)
A max=15.19



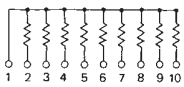
4608X-101
(7 resistors, 8 pins)
A max=20.27



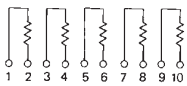
4608X-102
(4 resistors, 8 pins)
A max=20.27



4609X-101
(8 resistors, 9 pins)
A max=22.81



4610X-101
(9 resistors, 10 pins)
A max=25.35



4610X-102
(5 resistors, 10 pins)
A max=25.35

Thick film, resistor networks in 5, 6, 8, 9 or 10 pin, the 8 pin being available in either bussed or isolated configuration. Laser marked on a gold epoxy coating for permanent identification.

Power rating @ 70°C	200mW/element (bussed)mW 300mW/element (isolated)	Resistance T.C. tracking	±50ppm/°C
		Voltage rating	100V dc
Resistance tolerance	±100ppm/°C for 10R to 50R)	Insulation resistance	MΩ min
Resistance T.C.	±2% (±250ppm/°C for 10R to 50R)	Operating temperature	-55°C to +125°C

Stocked in the following OHMIC Values:

4605X-101
1K = **935-6053** 4K7 = **935-6100** 22K = **935-6096** 100K = **935-6070**
2K2 = **935-6088** 10K = **935-6061** 47K = **935-6118**

4606X-101
100R = **935-6126** 1K = **935-6134** 3K3 = **935-6223** 22K = **935-6207** 220K = **935-6215**
220R = **935-6185** 1K5 = **935-6177** 4K7 = **935-6240** 47K = **935-6258** 470K = **935-6266**
470R = **935-6231** 2K2 = **935-6193** 10K = **935-6142** 100K = **935-6150** 1M = **935-6169**
680R = **935-6274**

4606X-102
100R = **935-6282** 2K2 = **935-6339** 10K = **935-6304** 100K = **935-6312**
1K = **935-6290** 4K7 = **935-6347**

4608X-101
220R = **935-6401** 2K2 = **935-6410** 10K = **935-6371** 47K = **935-6479** 220K = **935-6436**
470R = **935-6452** 4K7 = **935-6460** 22K = **935-6428** 100K = **935-6380** 470K = **935-6487**
1K = **935-6363**

4608X-102
10R = **935-6495** 150R = **935-6550** 1K = **935-6517** 3K3 = **935-6673** 100K = **935-6533**
22R = **935-6576** 270R = **935-6622** 1K5 = **935-6568** 4K7 = **935-6703** 220K = **935-6614**
33R = **935-6649** 330R = **935-6665** 2K2 = **935-6592** 10K = **935-6525** 470K = **935-6720**
47R = **935-6681** 470R = **935-6690** 2K7 = **935-6630** 22K = **935-6606** 1M = **935-6541**
100R = **935-6509** 680R = **935-6754**

4609X-101
10R = **935-6789** 180R = **935-6878** 1K5 = **935-6851** 10K = **935-6819** 100K = **935-6827**
33R = **935-6967** 270R = **935-6940** 2K2 = **935-6916** 15K = **935-6860** 220K = **935-6932**
47R = **935-7009** 470R = **935-7017** 2K7 = **935-6959** 18K = **935-6886** 470K = **935-7041**
100R = **935-6797** 680R = **935-7050** 3K3 = **935-6983** 22K = **935-6924** 1M = **935-6835**
150R = **935-6843** 1K = **935-6800** 4K7 = **935-7025** 47K = **935-7033**

4610X-101
100R = **935-7106** 470R = **935-7220** 3K3 = **935-7211** 22K = **935-7181** 100K = **935-7130**
150R = **935-7157** 1K = **935-7114** 4K7 = **935-7238** 47K = **935-7246** 1M = **935-7149**
330R = **935-7203** 2K2 = **935-7173** 10K = **935-7122**

4610X-102
22R = **935-7289** 47R = **935-7327** 220R = **935-7297** 1K = **935-7262** 4K7 = **935-7343**
33R = **935-7319** 100R = **935-7254** 470R = **935-7335** 2K2 = **935-7300** 10K = **935-7270**

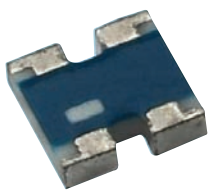
207423

Style	Order Code	Price Each 5+	100+	500+	1K+
4605X-101	All Values●				
4606X-101	All Values●				
4606X-102	All Values●				
4608X-101	All Values●				
4608X-102	All Values●				
4609X-101	All Values●				
4610X-101	All Values●				
4610X-102	All Values●				

Precision Thin Film Chip Resistor Arrays

VISHAY

ACAS Series (2 x 0603)



- AEC - Q200 Qualified
- 155°C Film Temperature

ACAS 0606 AT precision automotive grade thin film chip resistor arrays with convex terminations combine the proven reliability of discrete chip resistors with the advantages of chip resistor arrays.

Case style	0606	Temperature coefficient	± 7.5ppm/K
Power rating @ 70°C	200mW	Operating voltage	75V
Operating temperature	-55°C to +155°C		

Network/Arrays & Dividers - Arrays - continued

Precision Thin Film Chip Resistor Arrays - continued

ACAS Series (2 x 0603) - continued

100R/100R = **171-3554** 10K/10K = **171-3557** 100R/300R = **171-3560** 10K/15K = **171-3563**
1K/1K = **171-3555** 47K/47K = **171-3558** 1K/2K = **171-3561** 10K/20K = **171-3564**
4K7/4K7 = **171-3556** 100R/200R = **171-3559** 1K/3K = **171-3562** 10K/30K = **171-3566**

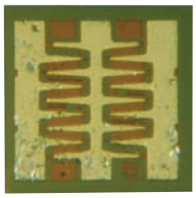
536426

Order Code	Price Each 1+	25+	50+	100+	250+
All Values ●					

Precision Thin Film Center-Tapped Resistor Arrays

VISHAY

CTR Series



NEW

The CTR offers the designer flexibility in use as either a single value resistor as two resistors with a center tap feature. The CTR's six bonding pads allows the user increased layout flexibility.

- Oxidised silicon substrate for good power dissipation
- Moisture resistant
- Wire bondable
- 10 piece waffle tray

Power rating @ 70°C	250mW	Temperature coefficient	± 25ppm/°C
Operating temperature	-55°C to +155°C	Operating voltage	100V

Stocked in the following OHMIC Values:

1K = **185-8319** 1K = **185-8321** 10K = **185-8323** 50K = **185-8326** 250K = **185-8328**
5K = **185-8320** 5K = **185-8322** 25K = **185-8325** 100K = **185-8327**

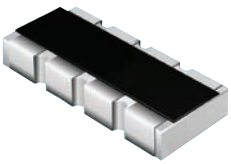
619530

Order Code	Price Per Tray 1+
All Values ●	

CAT/CAY 16 Series

BOURNS

4 x 0603 Elements



H = 0.5, W = 3.2, D = 1.6mm

- Convex and concave terminals
- 4 isolated elements in one 1206 package
- Resistance tolerance ±1 % and ±5 %

Power Rating Per Resistor	62 mW
Max. Working Voltage	50 V
Operating Temp. Range	-55 °C to +125 °C
Package Size	1206

CAT16 ± 5% - (Concave terminations) Stocked in the following OHMIC Values

10R = 177-0117 47R = 200-8289 4K7 = 177-0122 10K = 200-8290
22R = 177-0118 100R = 177-0120 10K = 177-0124 100K = 177-0125
33R = 177-0119 1K = 177-0121

CAY16 ± 5% - (Convex terminations) Stocked in the following OHMIC Values

10R = 177-0126 47R = 177-0129 180R = 200-8292 2K2 = 177-0134 22K = 177-0138
22R = 177-0127 68R = 177-0130 330R = 177-0132 4K7 = 177-0136 47K = 177-0139
27R = 200-8291 100R = 177-0131 1K = 177-0133 10K = 177-0137 100K = 177-0140
33R = 177-0128

CAY16 ± 1% - (Convex terminations) Stocked in the following OHMIC Values

1K = 177-0141 2K2 = 177-0142 10K = 177-0143

CAT25 ± 5% - (Convex terminations) Stocked in the following OHMIC Values

10K = 200-8293

549022

Order Multiple= / Order Code	Price Each 50+	250+	1K+	5K+
± 5% **CAT16** ●				
± 5% **CAY16** ●				
± 1% **CAY16** ●				
± 5% **CAT25** ●				

Thick Film Chip Resistor Networks

Panasonic ideas for life

Convex and Concave Terminals

NEW

- High density
- Improved placement efficiency
- Concave or convex termination
- 4 or 8 terminals
- Reference standard : IEC 60115-9, JIS 5201-9, EIAJ RC-2129
- Convex Terminals: EXB28, EXB2H, EXB38
- Concave Terminals: EXB18, EXBN8, EXBV8

SMD

Case style	0402 / 0603
Number of Elements	4 (EXB28, 38, 18, N8 & V8) 8 (EXB2H)
Power rating @ 70°C	EXB28,38: 0.063W (W/Element), EXB2H: 0.25W (W/Package), EXB18: 0.031W (W/Element) / 0.1W (W/Package), EXBN8: 0.031W (W/Element),EXBV8: 0.063W (W/Element)
Temp Coefficient Range	± 200 x 10^{-6} / °C
Voltage Rating	50V (EXB28 & EXB38), 25V (EXB2H)

EXB28

Stocked in the following OHMIC values

100R = **154-9047** 30R = **206-0034** 68R = **206-0042** 470R = **206-0049** 6K8 = **206-0056**
0R = **206-0028** 33R = **206-0035** 75R = **206-0043** 1K = **206-0051** 8K2 = **206-0057**
10R = **206-0029** 39R = **206-0037** 100R = **206-0044** 2K2 = **206-0052** 10K = **206-0058**
15R = **206-0030** 47R = **206-0038** 120R = **206-0045** 3K = **206-0053** 22K = **206-0059**
22R = **206-0031** 51R = **206-0039** 200R = **206-0046** 3K3 = **206-0054** 47K = **206-0060**
24R = **206-0032** 56R = **206-0040** 330R = **206-0047** 4K7 = **206-0055** 100K = **206-0062**
27R = **206-0033** 62R = **206-0041**

EXB2H

Stocked in the following OHMIC values

0R = **206-0063** 39R = **206-0067** 100R = **206-0071** 470R = **206-0076** 4K7 = **206-0080**
10R = **206-0064** 47R = **206-0068** 120R = **206-0072** 560R = **206-0077** 10K = **206-0081**
22R = **206-0065** 51R = **206-0069** 220R = **206-0074** 1K = **206-0078** 100K = **206-0082**
33R = **206-0066** 56R = **206-0070** 330R = **206-0075** 2K2 = **206-0079**

EXB38

Stocked in the following OHMIC values

100R = **154-9047** 47R = **206-0089** 330R = **206-0095** 2K2 = **206-0102** 22K = **206-0109**
0R = **206-0083** 56R = **206-0090** 470R = **206-0096** 3K9 = **206-0104** 39K = **206-0110**
10R = **206-0084** 68R = **206-0091** 560R = **206-0098** 4K7 = **206-0105** 47K = **206-0111**
22R = **206-0086** 100R = **206-0092** 680R = **206-0099** 5K6 = **206-0106** 100K = **206-0112**
27R = **206-0087** 150R = **206-0093** 1K = **206-0100** 10K = **206-0107** 3K3 = **206-0113**
33R = **206-0088** 220R = **206-0094** 1K5 = **206-0101** 15K = **206-0108**

EXB18

Stocked in the following OHMIC values

0R = **206-0114** 33R = **206-0118** 120R = **206-0121** 10K = **206-0124** 150K = **206-0126**
10R = **206-0116** 47R = **206-0119** 1K = **206-0122** 100K = **206-0125** 1M = **206-0128**
22R = **206-0117** 68R = **206-0120** 4K7 = **206-0123**

EXBN8

Stocked in the following OHMIC values

33R = **206-0133** 51R = **206-0136** 100R = **206-0141** 4K7 = **206-0144** 47K = **206-0146**
36R = **206-0134** 56R = **206-0137** 470R = **206-0142** 10K = **206-0145** 100K = **206-0147**
47R = **206-0135** 68R = **206-0138** 1K = **206-0143**

EXBV8

Stocked in the following OHMIC values

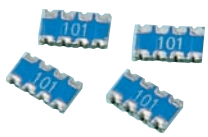
33R = **206-0133** 39R = **206-0154** 330R = **206-0160** 4K7 = **206-0166** 56K = **206-0171**
0R = **206-0148** 47R = **206-0155** 390R = **206-0161** 10K = **206-0167** 68K = **206-0172**
10R = **206-0149** 68R = **206-0156** 1K = **206-0162** 22K = **206-0168** 100K = **206-0173**
22R = **206-0150** 100R = **206-0157** 2K2 = **206-0163** 27K = **206-0169** 120K = **206-0174**
27R = **206-0151** 150R = **206-0158** 3K3 = **206-0165** 47K = **206-0170** 1M = **206-0175**
33R = **206-0153** 220R = **206-0159**

659370

	Order Code	Price Each 1+	50+	100+	500+	1K+
Convex						
EXB28	All Values ●					
EXB2H	All Values ●					
EXB38	All Values ●					
Concave						
EXB18	All Values ●					
EXBN8	All Values ●					
EXBV8	All Values ●					

1206 Case Size

Phycomp YAGEO



Four surface mount resistors in one 1206 size package.

SMD

L = 3.2, W = 1.6, H = 0.6
Supplied on tape (reel = 5Kpcs)

ARC 242 ±1% - (Concave terminations) Stocked in the following OHMIC Values

0R **923-4675** 47R **923-4721** 470R **923-4780** 4K7 **923-4845** 33K **923-4888**
10R **923-4683** 68R **923-4730** 1K **923-4802** 10K **923-4853** 47K **923-4896**
15R **923-4691** 100R **923-4748** 1K5 **923-4810** 15K **923-4861** 100K **923-4918**
22R **923-4705** 220R **923-4764** 2K2 **923-4829** 22K **923-4870** 470K **923-4942**
33R **923-4713** 330R **923-4772** 3K3 **923-4837**

ARV 242 ±1% - (Convex terminations) Stocked in the following OHMIC Values

10R = **108-6513** 100R = **108-6539** 1K = **108-6508** 12K = **108-6514** 82K = **108-6536**
22R = **108-6521** 150R = **108-6543** 2K2 = **108-6569** 15K = **108-6516** 100K = **108-6538**
33R = **108-6526** 220R = **108-6548** 3K3 = **108-6572** 22K = **108-6520** 180K = **108-6544**
47R = **108-6530** 270R = **108-6550** 4K7 = **108-6574** 27K = **108-6523** 220K = **108-6547**
56R = **108-6532** 330R = **108-6552** 6K8 = **108-6576** 33K = **108-6525** 390K = **108-6554**
68R = **108-6535** 470R = **108-6557** 8K2 = **108-6577** 47K = **108-6529** 560K = **108-6559**
82R = **108-6537** 560R = **108-6561** 10K = **108-6512** 68K = **108-6533** 680R = **108-6563**

ARC 241 ±5% - (Concave terminations) Stocked in the following OHMIC Values

10R **924-1132** 100R **924-1191** 680R **924-1248** 4K7 **924-1299** 56K **923-5175**
15R **924-1140** 120R **923-5000** 820R **923-5051** 5K6 **923-5116** 68K **924-1361**
22R **924-1159** 150R **924-1205** 1K **924-1256** 6K8 **924-1302** 100K **924-1370**
27R **923-4969** 180R **923-5019** 1K2 **923-5060** 8K2 **923-5124** 150K **924-1388**
33R **924-1167** 220R **924-1213** 1K5 **924-1264** 10K **924-1310** 180K **923-5191**
39R **923-4977** 270R **923-5027** 1K8 **923-5078** 15K **924-1329** 220K **924-1396**
47R **924-1175** 330R **924-1221** 2K2 **924-1272** 18K **923-5140** 330K **924-1400**
56R **923-4985** 390R **923-5035** 2K7 **923-5086** 22K **924-1337** 470K **924-1418**
68R **924-1183** 470R **924-1230** 3K3 **924-1280** 33K **924-1345** 680K **924-1426**
82R **923-4993** 560R **923-5043** 3K9 **923-5094** 47K **924-1353** 1M **923-5213**

ARV 241 ±5% - (Convex terminations) Stocked in the following OHMIC values

0R **923-4381** 47R **923-4438** 220R **923-4470** 1K **923-4519** 10K **923-4560**
10R **923-4390** 68R **923-4446** 330R **923-4489** 2K2 **923-4535** 47K **923-4594**
22R **923-4411** 100R **923-4454** 470R **923-4497** 3K3 **923-4543** 100K **923-4616**
33R **923-4420** 150R **923-4462** 680R **923-4500** 4K7 **923-4551**

207245

RoHS ● Compliant ▲ Non-compliant

Order Code	Price Each 10+	50+	100+	1K+	5K+
ARC242 / ARV242 ● RL					
ARC241 / ARV241 ● RL					

RNA310 Series - Surface Mount

1206 Case Size

- Eight bussed thick film chip resistors on one 1206 package

Supplied on 8mm embossed tape (reel=5k pcs)

L=3.3±0.2, W=1.6±0.15, H=0.55±0.1

Power rating @ 70°C	310mW	Temperature coefficient	≤200x 10^{-6}/K
Resistance tolerance	±5%	Operating temperature	-55°C to +125°C
Maximum Voltage	25V d.c or a.c rms		

Stocked in the following OHMIC Values:

47R = **923-6112** 1K = **923-6180** 4K7 = **923-6210** 22K = **923-6252** 100K = **923-6287**
330R = **923-6155** 3K3 = **923-6201** 10K = **923-6236** 47K = **923-6279**

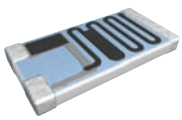
227147

Style	Order Code	Price Each 5+	25+	100+	500+	1K+
RNA310	All Values ● RL					

Network/Arrays & Dividers - Dividers

CDHV Series

Thick Film Chip Dividers, High Voltage



- High voltage up to 3000 V
- Suitable for solderable, epoxy bondable, or wire bondable applications

Operating temperature	-55°C to +150°C	Resistance tolerance	± 1%
TCR ratio	± 100ppm/°C	Maximum voltage	3k V

618409

Mftrs. List No.	Resistance Values	Order Code	Price Each 1+	5+	10+	25+	50+
CDHVAF10M0F2500FET	40K/10M	184-5235●					
CDHVAF20M0F2500FET	80K/20M	184-5236●					
CDHVAF25M0F2500FET	100K/25M	184-5237●					
CDHVAF100MF2500FET	400K/100M	184-5239●					
CDHVAF150MF3000FET	500K/150M	184-5241●					
CDHVAF500MF5000FET	1M/500M	184-5242●					
CDHVAF1G00G5000GET	2M/1G	184-5243●					

Precision Resistor Divider

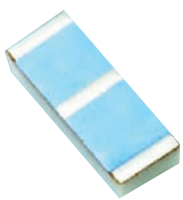
- Resistance ratios from 1:1 to 100:1
- Low 1ppm/°C (typ) resistor-ratio-drift
- Operating voltage up to 80Vacross sum of R1and R2
- Operating temperature: -55°C to 125°C
- Tiny 3-pin SOT23 package

Mftrs. List No.	Order Code	Resistance kΩ	Power Rating W	Voltage Rating V	Temperature Coefficient
MAX5490GC01000+T	184-5898	100	67.2	80	± 35ppm/°C
MAX5491LA01000+T	184-5899	30	87.5	50	± 35ppm/°C
MAX5491NA01500+T	184-5900	30	87.5	50	± 35ppm/°C
MAX5492LB10000+T	184-5902	10	160	40	± 35ppm/°C
MAX5492LC10000+T	184-5903	10	160	40	± 35ppm/°C

618452

Mftrs. List No.	Order Code	Price Each 1+	5+	10+	25+	50+
MAX5490GC01000+T	184-5898●					
MAX5491LA01000+T	184-5899●					
MAX5491NA01500+T	184-5900●					
MAX5492LB10000+T	184-5902●					
MAX5492LC10000+T	184-5903●					

High Precision Voltage Divider Resistor



- Bulk metal current sensing chip resistor
- Non inductive, non capacitive design
- Load life stability

Resistance	Power Rating (mW)	Tolerance	Temperature Coefficient	Voltage Rating (V)	Mftrs. List No.	Order Code
5 kohm	500	± 0.01%	± 0.05ppm/°C	22	Y1685V0005TT9R	186-7929
10 kohm	500	± 0.01%	± 0.05ppm/°C	22	Y1685V0001TT9R	186-7928

624217

Mftrs. List No.	Order Code	Price Each 1+	5+	10+	25+	50+
Y1685V0001TT9R	186-7928●					
Y1685V0005TT9R	186-7929●					

High Precision Foil Resistors

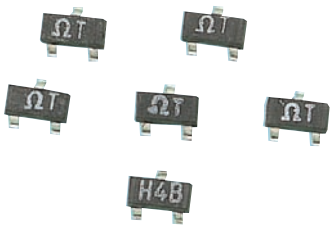
- High precision voltage divider resistor
- Low TCR, PCR, low thermal EMF and low current noise
- Excellent load life and ratio stability
- Operating temperature: -65°C to 125°C

Resistance Kohm	Power Rating (mW)	Tolerance	Temperature Coefficient	Voltage Rating (V)	Mftrs. List No.	Order Code
1	100	± 0.02%	± 1ppm/°C	25	Y4485V0004QT9R	186-7898
5	100	± 0.02%	± 1ppm/°C	25	Y4485V0002QT9R	186-7897
10	100	± 0.05%	± 1ppm/°C	25	Y4485V0001AT9R	186-7896

624191

Order Code	Price Each 1+	5+	25+	50+	100+
All Values ●					

MPM Series - SOT23 Package Surface Mount



- Precision thin film dividers for gain defining applications
- Low TCR
- Close ratio tolerances

Power rating @ 70°C	100mW per resistor 200mW per package	Ratio tolerance	±0.05%
		Maximum voltage	100V dc
Operating temperature	-55°C to +125°C	N.B. (Resistance values)	100K = R2, 1K = R1
TCR ratio	±2ppm/°C		

207304

Ratio	Resistance Values	Order Code	Price Each 1+	5+	10+	25+	50+
100:1	1K/100K	SMD 120-3383●					
50:1	1K/50K	SMD 120-3384●					
20:1	1K/20K	SMD 120-3386●					
10:1	1K/10K	SMD 120-3387●					
9:1	1K/9K	157-2809● RL					
5:1	1K/5K	SMD 120-3388●					
4:1	2K/8K	157-2808● RL					
2:1	1K/2K	SMD 120-3389●					
2:1	5K/10K	157-2810● RL					
1:1	1K/1K	SMD 120-3390●					
1:1	500R/500R	SMD 120-3391●					
1:1	10K/10K	SMD 120-3392●					
1:1	25K/25K	157-2812● RL					
1:1	50K/50K	157-2813● RL					
1:1	100K/100K	157-2811● RL					

Thick Film Chip

Anti-Sulfuration

MCSR Series

- High reliability and stability
- Sulfuration resistant 1000ppm
- 100% CCD inspection

Applications:

- Automotive application
- Consumer electrical equipment
- EDP, Computer application
- Telecom application

Resistance Range	Temperature Coefficient
0Ω to ≥10Ω	-200ppm/°C to +400ppm/°C
>10Ω	± 100ppm/°C

Case Size	Maximum Working Voltage (V)	Maximum Working Voltage (V)
0402	50V	62.5mW
0603	75V	100mW
0805	150V	125mW
1206	200V	250mW

0402 Case Size - 5%

Stocked in the following OHMIC Values:

5R1 = **207-4120** 100R = **207-3964** 10K = **207-3966** 1M = **207-3968** 300K = **207-4055**
10R = **207-3957** 1K = **207-3965** 100K = **207-3967** 200R = **207-4025** 4K7 = **207-4092**

Anti-Sulfuration - continued

MCSR Series - continued

Order Code	Price Each 100+	500+	1K+	+	+
0402 Case Size - 5% All Values ● RL					

0402 Case Size - 1%

Stocked in the following OHMIC Values:

0R = **207-3956** 200R = **207-4020** 1K69 = **207-4008** 6K49 = **207-4129** 68K = **207-4132**
2R2 = **207-3955** 220R = **207-4029** 1K8 = **207-4013** 6K8 = **207-4131** 68K1 = **207-4134**
10R = **207-3970** 240R = **207-4036** 1K96 = **207-4018** 7K5 = **207-4139** 71K5 = **207-4136**
11R = **207-3976** 270R = **207-4043** 2K = **207-4021** 7K87 = **207-4144** 75K = **207-4141**
12R = **207-3982** 300R = **207-4050** 2K05 = **207-4026** 8K2 = **207-4146** 82K = **207-4147**
13R = **207-3992** 330R = **207-4057** 2K15 = **207-4028** 8K66 = **207-4150** 91K = **207-4155**
14R = **207-3994** 340R = **207-4065** 2K2 = **207-4030** 9K1 = **207-4154** 93K1 = **207-4158**
15R = **207-4002** 360R = **207-4066** 2K4 = **207-4037** 10K = **207-3960** 100K = **207-3962**
16R = **207-4010** 390R = **207-4074** 2K43 = **207-4040** 11K = **207-3974** 110K = **207-3975**
18R = **207-4017** 430R = **207-4081** 2K61 = **207-4042** 12K = **207-3979** 120K = **207-3980**
20R = **207-4027** 470R = **207-4088** 2K7 = **207-4044** 13K = **207-3986** 130K = **207-3987**
22R = **207-4033** 499R = **207-4097** 2K74 = **207-4048** 13K3 = **207-3989** 150K = **207-3999**
24R = **207-4041** 510R = **207-4101** 3K = **207-4051** 13K7 = **207-3991** 160K = **207-4006**
27R = **207-4049** 511R = **207-4106** 3K3 = **207-4058** 15K = **207-3998** 180K = **207-4015**
30R = **207-4056** 523R = **207-4109** 3K32 = **207-4063** 16K = **207-4005** 187K = **207-4016**
33R = **207-4064** 560R = **207-4112** 3K6 = **207-4067** 16K9 = **207-4009** 200K = **207-4024**
36R = **207-4071** 620R = **207-4123** 3K6 = **207-4068** 18K = **207-4014** 220K = **207-4032**
39R = **207-4079** 680R = **207-4130** 3K65 = **207-4070** 19K6 = **207-4019** 240K = **207-4039**
43R = **207-4087** 750R = **207-4137** 3K83 = **207-4073** 20K = **207-4022** 270K = **207-4046**
47R = **207-4094** 820R = **207-4145** 3K9 = **207-4075** 22K = **207-4031** 300K = **207-4053**
49R9 = **207-4100** 909R = **207-4152** 3K92 = **207-4078** 23K7 = **207-4034** 330K = **207-4062**
51R = **207-4108** 910R = **207-4153** 4K02 = **207-4080** 24K = **207-4038** 360K = **207-4069**
56R = **207-4118** 1K = **207-3959** 4K3 = **207-4082** 27K = **207-4045** 390K = **207-4077**
62R = **207-4128** 1K07 = **207-3969** 4K7 = **207-4089** 30K = **207-4052** 430K = **207-4085**
68R = **207-4135** 1K1 = **207-3972** 4K87 = **207-4095** 30K1 = **207-4054** 432K = **207-4086**
75R = **207-4143** 1K2 = **207-3978** 4K99 = **207-4098** 33K = **207-4061** 470K = **207-4091**
82R = **207-4149** 1K21 = **207-3981** 5K1 = **207-4103** 39K = **207-4076** 510K = **207-4105**
91R = **207-4157** 1K3 = **207-3984** 5K11 = **207-4107** 43K = **207-4083** 560K = **207-4116**
100R = **207-3958** 1K33 = **207-3988** 5K23 = **207-4110** 47K = **207-4090** 620K = **207-4127**
110R = **207-3971** 1K37 = **207-3990** 5K36 = **207-4111** 47K5 = **207-4093** 680K = **207-4133**
120R = **207-3977** 1K4 = **207-3993** 5K6 = **207-4113** 49K9 = **207-4099** 750K = **207-4142**
130R = **207-3983** 1K5 = **207-3996** 5K62 = **207-4117** 51K = **207-4104** 820K = **207-4148**
150R = **207-3995** 1K54 = **207-4001** 5K9 = **207-4119** 56K = **207-4115** 910K = **207-4156**
160R = **207-4003** 1K6 = **207-4004** 6K04 = **207-4121** 60K4 = **207-4122** 1M = **207-3963**
180R = **207-4012** 1K65 = **207-4007** 6K2 = **207-4124** 62K = **207-4125**

Order Code	Price Each 100+	500+	1K+	+	+
0402 Case Size - 1% All Values ● RL					

0603 Case Size - 5%

Stocked in the following OHMIC Values:

10R = **207-4164** 1M = **207-4171** 20K = **207-4212** 62K = **207-4293** 6K8 = **207-4300**
10K = **207-4170**

Order Code	Price Each 100+	500+	1K+	+	+
0603 Case Size - 5% All Values ● RL					

0603 Case Size - 1%

Stocked in the following OHMIC Values:

0R = **207-4162** 91R = **207-4319** 1K1 = **207-4174** 8K2 = **207-4309** 100K = **207-4168**
1R = **207-4159** 100R = **207-4165** 1K2 = **207-4180** 8K25 = **207-4313** 110K = **207-4177**
2R = **207-4160** 110R = **207-4173** 1K3 = **207-4186** 9K1 = **207-4316** 120K = **207-4182**
4R7 = **207-4161** 120R = **207-4179** 1K5 = **207-4192** 10K = **207-4167** 127K = **207-4183**
10R = **207-4172** 130R = **207-4185** 1K6 = **207-4197** 11K = **207-4176** 130K = **207-4189**
11R = **207-4178** 150R = **207-4191** 1K8 = **207-4203** 12K = **207-4181** 150K = **207-4194**
12R = **207-4184** 160R = **207-4196** 2K = **207-4209** 13K = **207-4188** 160K = **207-4200**
13R = **207-4190** 180R = **207-4202** 2K2 = **207-4215** 15K = **207-4193** 180K = **207-4206**
15R = **207-4195** 200R = **207-4208** 2K4 = **207-4221** 16K = **207-4198** 200K = **207-4211**
16R = **207-4201** 220R = **207-4214** 2K7 = **207-4226** 18K = **207-4204** 220K = **207-4218**
18R = **207-4207** 240R = **207-4220** 2K94 = **207-4232** 20K = **207-4210** 240K = **207-4223**
20R = **207-4213** 270R = **207-4225** 3K = **207-4234** 22K = **207-4216** 270K = **207-4228**
22R = **207-4219** 300R = **207-4233** 3K01 = **207-4237** 24K = **207-4222** 300K = **207-4236**
24R = **207-4224** 330R = **207-4240** 3K3 = **207-4241** 27K = **207-4227** 330K = **207-4244**
27R = **207-4231** 332R = **207-4245** 3K4 = **207-4247** 30K = **207-4235** 360K = **207-4251**
30R = **207-4239** 360R = **207-4248** 3K6 = **207-4249** 30K1 = **207-4238** 390K = **207-4257**
33R = **207-4246** 390R = **207-4253** 3K9 = **207-4255** 33K = **207-4243** 430K = **207-4262**
36R = **207-4252** 430R = **207-4259** 4K3 = **207-4260** 36K = **207-4250** 470K = **207-4269**
39R = **207-4258** 470R = **207-4265** 4K32 = **207-4263** 39K = **207-4256** 499K = **207-4272**
43R = **207-4264** 510R = **207-4274** 4K7 = **207-4267** 43K = **207-4261** 510K = **207-4277**
47R = **207-4270** 560R = **207-4282** 4K99 = **207-4271** 47K = **207-4268** 560K = **207-4285**
49R9 = **207-4273** 620R = **207-4288** 5K1 = **207-4275** 51K = **207-4276** 620K = **207-4292**
51R = **207-4281** 680R = **207-4295** 5K11 = **207-4279** 56K = **207-4284** 680K = **207-4298**
56R = **207-4286** 681R = **207-4299** 5K6 = **207-4283** 62K = **207-4290** 750K = **207-4305**
62R = **207-4294** 750R = **207-4302** 6K19 = **207-4287** 68K = **207-4297** 820K = **207-4312**
68R = **207-4301** 820R = **207-4307** 6K2 = **207-4289** 75K = **207-4304** 910K = **207-4318**
75R = **207-4306** 910R = **207-4315** 6K8 = **207-4296** 82K = **207-4311** 1M = **207-4169**
82R = **207-4314** 1K = **207-4166** 7K5 = **207-4303** 91K = **207-4317**

Order Code	Price Each 100+	500+	1K+	+	+
0603 Case Size - 1% All Values ● RL					

0805 Case Size - 5%

Stocked in the following OHMIC Values:

5R6 = **207-4493** 1M = **207-4342** 1K5 = **207-4377** 22K = **207-4411** 39R = **207-4453**
10R = **207-4330** 120R = **207-4359** 180R = **207-4389** 27K = **207-4427** 3K9 = **207-4458**
100R = **207-4337** 1K2 = **207-4361** 1K8 = **207-4390** 330R = **207-4441** 47R = **207-4467**
1K = **207-4338** 12K = **207-4362** 22R = **207-4403** 3K3 = **207-4442** 470R = **207-4472**
10K = **207-4340** 15R = **207-4371** 220R = **207-4408** 33K = **207-4443** 4K7 = **207-4474**
100K = **207-4341** 150R = **207-4376** 2K2 = **207-4410** 330K = **207-4444** 47K = **207-4475**
560R = **207-4488** 56K = **207-4490** 68R = **207-4501** 6K8 = **207-4508** 8K2 = **207-4522**
5K6 = **207-4489** 560K = **207-4491** 680R = **207-4507** 820R = **207-4521**

Order Code	Price Each 100+	500+	1K+	+	+
0805 Case Size - 5% All Values ● RL					

0805 Case Size - 1%

Stocked in the following OHMIC Values:

0R = **207-4329** 82R = **207-4524** 910R = **207-4526** 10K = **207-4334** 100K = **207-4335**
1R = **207-4322** 91R = **207-4531** 1K = **207-4332** 11K = **207-4348** 110K = **207-4349**
1R5 = **207-4323** 100R = **207-4331** 1K1 = **207-4347** 11K3 = **207-4350** 120K = **207-4358**
2R = **207-4325** 102R = **207-4339** 1K2 = **207-4355** 11K5 = **207-4351** 130K = **207-4367**
2R2 = **207-4326** 110R = **207-4346** 1K3 = **207-4365** 12K = **207-4356** 150K = **207-4375**
3R3 = **207-4327** 120R = **207-4354** 1K5 = **207-4373** 12K1 = **207-4360** 160K = **207-4383**
4R7 = **207-4328** 130R = **207-4364** 1K6 = **207-4380** 13K = **207-4366** 180K = **207-4388**
10R = **207-4344** 150R = **207-4372** 1K8 = **207-4386** 15K = **207-4374** 200K = **207-4396**
11R = **207-4352** 160R = **207-4379** 2K = **207-4393** 16K = **207-4381** 205K = **207-4399**
11R8 = **207-4353** 180R = **207-4385** 2K05 = **207-4398** 18K = **207-4387** 220K = **207-4407**
12R = **207-4363** 200R = **207-4392** 2K2 = **207-4405** 20K = **207-4395** 240K = **207-4417**
13R = **207-4368** 205R = **207-4397** 2K21 = **207-4409** 21K5 = **207-4402** 270K = **207-4426**
15R = **207-4378** 220R = **207-4404** 2K4 = **207-4415** 22K = **207-4406** 300K = **207-4433**
16R = **207-4384** 240R = **207-4414** 2K43 = **207-4419** 24K = **207-4416** 301K = **207-4434**
18R = **207-4391** 243R = **207-4418** 2K7 = **207-4423** 27K = **207-4425** 330K = **207-4440**
20R = **207-4401** 270R = **207-4422** 3K = **207-4431** 30K = **207-4432** 360K = **207-4451**
22R = **207-4413** 287R = **207-4429** 3K3 = **207-4438** 33K = **207-4439** 390K = **207-4457**
24R = **207-4420** 300R = **207-4430** 3K6 = **207-4447** 36K = **207-4449** 430K = **207-4465**
25R5 = **207-4421** 330R = **207-4437** 3K9 = **207-4455** 39K = **207-4456** 470K = **207-4471**
27R = **207-4428** 360R = **207-4446** 4K3 = **207-4463** 43K = **207-4464** 510K = **207-4481**
30R = **207-4435** 390R = **207-4454** 4K7 = **207-4469** 47K = **207-4470** 560K = **207-4487**
33R = **207-4445** 412R = **207-4460** 5K1 = **207-4479** 51K = **207-4480** 620K = **207-4498**
36R = **207-4452** 430R = **207-4462** 5K6 = **207-4484** 56K = **207-4486** 680K = **207-4506**
39R = **207-4459** 470R = **207-4468** 6K2 = **207-4495** 62K = **207-4496** 750K = **207-4514**
43R = **207-4466** 499R = **207-4477** 6K8 = **207-4504** 63K4 = **207-4500** 820K = **207-4520**
47R = **207-4476** 510R = **207-4478** 7K5 = **207-4512** 68K = **207-4505** 910K = **207-4530**
51R = **207-4482** 560R = **207-4483** 8K2 = **207-4518** 71K5 = **207-4510** 1M = **207-4336**
56R = **207-4492** 620R = **207-4494** 8K25 = **207-4523** 75K = **207-4513** 1M07 = **207-4343**
62R = **207-4499** 680R = **207-4502** 9K09 = **207-4525** 82K = **207-4519** 2M = **207-4324**
68R = **207-4509** 750R = **207-4511** 9K1 = **207-4528** 91K = **207-4529** 10M = **207-4320**
75R = **207-4516** 820R = **207-4517**

Order Code	Price Each 100+	500+	1K+	+	+
0805 Case Size - 1% All Values ● RL					

1206 Case Size - 5%

Stocked in the following OHMIC Values:

2R2 = **207-4621** 100K = **207-4546** 18R = **207-4582** 2K7 = **207-4617** 4K7 = **207-4662**
3R3 = **207-4649** 1M = **207-4547** 1K8 = **207-4587** 330R = **207-4632** 56R = **207-4672**
4R7 = **207-4664** 120R = **207-4559** 22R = **207-4596** 33K = **207-4634** 560R = **207-4677**
10R = **207-4535** 1K2 = **207-4560** 220R = **207-4601** 39R = **207-4641** 6K8 = **207-4691**
100R = **207-4543** 15R = **207-4568** 2K2 = **207-4602** 390R = **207-4647** 68K = **207-4693**
1K = **207-4544** 150R = **207-4573** 220K = **207-4603** 47R = **207-4656** 82K = **207-4704**
10K = **207-4545** 1K5 = **207-4574** 270R = **207-4616** 470R = **207-4661**

Order Code	Price Each 100+	500+	1K+	+	+
1206 Case Size - 5% All Values ● RL					

1206 Case Size - 1%

Stocked in the following OHMIC Values:

1R3 = **207-4532** 100R = **207-4536** 866R = **207-4706** 9K1 = **207-4708** 110K = **207-4553**
1R5 = **207-4533** 110R = **207-4549** 910R = **207-4707** 10K = **207-4538** 120K = **207-4558**
4R7 = **207-4534** 120R = **207-4555** 1K = **207-4537** 11K = **207-4551** 130K = **207-4566**
10R = **207-4548** 130R = **207-4562** 1K1 = **207-4550** 12K = **207-4557** 150K = **207-4572**
11R = **207-4554** 150R = **207-4569** 1K2 = **207-4556** 13K = **207-4565** 160K = **207-4580**
12R = **207-4561** 160R = **207-4577** 1K3 = **207-4563** 15K = **207-4571** 180K = **207-4586**
13R = **207-4567** 160R = **207-4581** 1K5 = **207-4570** 16K = **207-4579** 200K = **207-4594**
15R = **207-4575** 180R = **207-4583** 1K6 = **207-4578** 18K = **207-4585** 220K = **207-4600**
18R = **207-4589** 200R = **207-4591** 1K8 = **207-4584** 20K = **207-4593** 240K = **207-4610**
20R = **207-4595** 220R = **207-4597** 2K = **207-4592** 22K = **207-4599** 270K = **207-4614**
22R = **207-4604** 240R = **207-4607** 2K2 = **207-4598** 24K = **207-4609** 300K = **207-4625**
27R = **207-4619** 270R = **207-4611** 2K37 = **207-4605** 27K = **207-4613** 330K = **207-4630**
30R = **207-4626** 271R = **207-4615** 2K4 = **207-4608** 30K = **207-4624** 332K = **207-4633**
33R = **207-4635** 300R = **207-4622** 2K7 = **207-4612** 33K = **207-4629** 360K = **207-4639**
36R = **207-4640** 330R = **207-4627** 3K = **207-4623** 36K = **207-4638** 390K = **207-4646**
39R = **207-4648** 360R = **207-4636** 3K3 = **207-4628** 39K = **207-4645** 430K = **207-4653**
43R = **207-4654** 390R = **207-4642** 3K6 = **207-4637** 43K = **207-4652** 470K = **207-4660**
47R = **207-4663** 430R = **207-4650** 3K9 = **207-4644** 47K = **207-4659** 510K = **207-4669**
51R = **207-4670** 470R = **207-4657** 4K3 = **207-4651** 51K = **207-4668** 560K = **207-4676**
56R = **207-4678** 510R = **207-4665** 4K7 = **207-4658** 56K = **207-4675** 620K = **207-4685**
56R2 = **207-4681** 523R = **207-4671** 5K1 = **207-4666** 62K = **207-4684** 680K = **207-4690**
62R = **207-4686** 560R = **207-4673** 5K6 = **207-4674** 68K = **207-4689** 750K = **207-4698**
68R = **207-4694** 620R = **207-4682** 6K2 = **207-4683** 75K = **207-4697** 820K = **207-4703**
75R = **207-4699** 680R = **207-4687** 6K8 = **207-4688** 82K = **207-4702** 910K = **207-4712**
82R = **207-4705** 750R = **207-4695** 7K5 = **207-4696** 91K = **207-4711** 1M = **207-4542**
91R = **207-4713** 820R = **207-4700** 8K2 = **207-4701** 100K = **207-4541**

660242

Order Code	Price Each 100+	500+	1K+	+	+
1206 Case Size - 1% All Values ● RL					

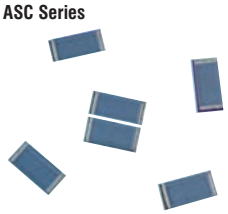
Anti Sulphur Chip Resistor

ASC Series

SMD

TT electronics Welwyn Components

NEW



- Special construction resists sulphide growth
- Withstands sulphur bearing fume environment
- Tested to ASTM-B809 (Flowers-of-Sulphur)
- Suitable for industrial, automotive and roadside uses
- RoHS compliant matt tin finish terminations

Case Size	Power Rating @ 70°C	Tolerance	Temperature Coefficient	Voltage Rating
0402	63mW	± 1%	± 200ppm/°C	50V
0603	100mW	± 1%	± 200ppm/°C	50V
0805	125mW	± 1%	± 200ppm/°C	150V
1206	250mW	± 1%	± 200ppm/°C	200V
2010	750mW	± 1%	± 200ppm/°C	200V

0402 Cases

Stocked in the following OHMIC Values:

1R = **207-8841**	33R = **207-8851**	1K = **207-8861**	22K = **207-8870**	470K = **207-8878**
1R5 = **207-8842**	47R = **207-8852**	1K5 = **207-8862**	33K = **207-8871**	680K = **207-8881**
2R2 = **207-8844**	68R = **207-8853**	2K2 = **207-8863**	47K = **207-8872**	1M = **207-8882**
3R3 = **207-8845**	100R = **207-8854**	3K3 = **207-8864**	68K = **207-8873**	1M5 = **207-8883**
4R7 = **207-8846**	150R = **207-8856**	4K7 = **207-8865**	100K = **207-8874**	2M2 = **207-8884**
6R8 = **207-8847**	220R = **207-8857**	6K8 = **207-8866**	150K = **207-8875**	3M3 = **207-8885**
10R = **207-8848**	330R = **207-8858**	10K = **207-8868**	220K = **207-8876**	4M7 = **207-8886**
15R = **207-8849**	470R = **207-8859**	15K = **207-8869**	330K = **207-8877**	6M8 = **207-8887**
22R = **207-8850**	680R = **207-8860**			

	Price Each				
Order Code	10+	100+	500+	1K+	3K+
All Values ●					

0603 Cases

Stocked in the following OHMIC Values:

1R = **207-8888**	33R = **207-8898**	1K = **207-8907**	22K = **207-8917**	470K = **207-8926**
1R5 = **207-8889**	47R = **207-8899**	1K5 = **207-8908**	33K = **207-8918**	680K = **207-8927**
2R2 = **207-8890**	68R = **207-8900**	2K2 = **207-8911**	47K = **207-8919**	1M = **207-8928**
3R3 = **207-8891**	100R = **207-8901**	3K3 = **207-8912**	68K = **207-8920**	1M5 = **207-8929**
4R7 = **207-8893**	150R = **207-8902**	4K7 = **207-8913**	100K = **207-8921**	2M2 = **207-8930**
6R8 = **207-8894**	220R = **207-8903**	6K8 = **207-8914**	150K = **207-8923**	3M3 = **207-8931**
10R = **207-8895**	330R = **207-8904**	10K = **207-8915**	220K = **207-8924**	4M7 = **207-8932**
15R = **207-8896**	470R = **207-8905**	15K = **207-8916**	330K = **207-8925**	6M8 = **207-8933**
22R = **207-8897**	680R = **207-8906**			

	Price Each				
Order Code	10+	100+	500+	1K+	1K8+
All Values ●					

0805 Cases

Stocked in the following OHMIC Values:

1R = **207-8935**	33R = **207-8944**	1K = **207-8954**	22K = **207-8964**	470K = **207-8973**
1R5 = **207-8936**	47R = **207-8945**	1K5 = **207-8955**	33K = **207-8965**	680K = **207-8974**
2R2 = **207-8937**	68R = **207-8947**	2K2 = **207-8956**	47K = **207-8966**	1M = **207-8975**
3R3 = **207-8938**	100R = **207-8948**	3K3 = **207-8957**	68K = **207-8967**	1M5 = **207-8976**
4R7 = **207-8939**	150R = **207-8949**	4K7 = **207-8959**	100K = **207-8968**	2M2 = **207-8977**
6R8 = **207-8940**	220R = **207-8950**	6K8 = **207-8961**	150K = **207-8969**	3M3 = **207-8978**
10R = **207-8941**	330R = **207-8951**	10K = **207-8962**	220K = **207-8970**	4M7 = **207-8979**
15R = **207-8942**	470R = **207-8952**	15K = **207-8963**	330K = **207-8972**	6M8 = **207-8980**
22R = **207-8943**	680R = **207-8953**			

	Price Each				
Order Code	10+	100+	500+	1K+	3K+
All Values ●					

1206 Cases

Stocked in the following OHMIC Values:

1R = **207-8981**	33R = **207-8991**	1K = **207-9001**	22K = **207-9011**	470K = **207-9019**
1R5 = **207-8982**	47R = **207-8992**	1K5 = **207-9002**	33K = **207-9012**	680K = **207-9020**
2R2 = **207-8984**	68R = **207-8993**	2K2 = **207-9003**	47K = **207-9013**	1M = **207-9022**
3R3 = **207-8985**	100R = **207-8994**	3K3 = **207-9004**	68K = **207-9014**	1M5 = **207-9023**
4R7 = **207-8986**	150R = **207-8996**	4K7 = **207-9005**	100K = **207-9015**	2M2 = **207-9024**
6R8 = **207-8987**	220R = **207-8997**	6K8 = **207-9006**	150K = **207-9016**	3M3 = **207-9025**
10R = **207-8988**	330R = **207-8998**	10K = **207-9007**	220K = **207-9017**	4M7 = **207-9026**
15R = **207-8989**	470R = **207-8999**	15K = **207-9009**	330K = **207-9018**	6M8 = **207-9027**
22R = **207-8990**	680R = **207-9000**			

	Price Each				
Order Code	10+	100+	500+	1K+	1K8+
All Values ●					

2010 Cases

Stocked in the following OHMIC Values:

1R = **207-9028**	4R7 = **207-9032**	22R = **207-9037**	100R = **207-9041**	330R = **207-9044**
1R5 = **207-9029**	6R8 = **207-9034**	33R = **207-9038**	150R = **207-9042**	470R = **207-9046**
2R2 = **207-9030**	10R = **207-9035**	47R = **207-9039**	220R = **207-9043**	680R = **207-9047**
3R3 = **207-9031**	15R = **207-9036**	68R = **207-9040**		

651577

	Price Each				
Order Code	10+	100+	500+	1K+	3K+
All Values ●					

Automotive & Anti-Sulfuration

Case Size	Maximum Working Voltage (V)
0603	50
0805	150
1206	200

Operating temperature -55°C to +155°C

0.05 Watt ±5% (0201 Case Size)

Stocked in the following OHMIC Values:

0R = **185-1521**	2R2 = **185-1486**	5R1 = **185-1505**	1K1 = **185-1440**	1K33 = **185-1453**
1R = **185-1471**	2R4 = **185-1487**	5R6 = **185-1506**	1K13 = **185-1442**	1K37 = **185-1454**
1R1 = **185-1472**	2R7 = **185-1488**	6R2 = **185-1509**	1K15 = **185-1443**	1K4 = **185-1455**
1R2 = **185-1473**	3R = **185-1493**	6R8 = **185-1510**	1K18 = **185-1444**	1K43 = **185-1458**
1R3 = **185-1474**	3R3 = **185-1495**	7R5 = **185-1515**	1K2 = **185-1446**	1K47 = **185-1459**
1R4 = **185-1475**	3R6 = **185-1496**	8R2 = **185-1517**	1K21 = **185-1448**	1K5 = **185-1460**
1R6 = **185-1476**	3R9 = **185-1497**	9R1 = **185-1520**	1K24 = **185-1449**	1K54 = **185-1461**
1R8 = **185-1477**	4R3 = **185-1501**	75R = **185-1514**	1K27 = **185-1450**	1K58 = **185-1462**
2R = **185-1485**	4R7 = **185-1502**	270R = **185-1484**	1K3 = **185-1451**	1K6 = **185-1463**
1K62 = **185-1465**	1M1 = **185-1441**	2M = **185-1478**	3M6 = **185-1491**	6M2 = **185-1507**
1K65 = **185-1466**	1M2 = **185-1447**	2M2 = **185-1479**	3M9 = **185-1492**	6M8 = **185-1508**
1K69 = **185-1467**	1M3 = **185-1452**	2M4 = **185-1480**	4M3 = **185-1498**	7M5 = **185-1513**
75K = **185-1511**	1M4 = **185-1456**	2M7 = **185-1483**	4M7 = **185-1499**	8M2 = **185-1516**
91K = **185-1519**	1M6 = **185-1464**	3M = **185-1489**	5M1 = **185-1503**	9M1 = **185-1518**
270K = **185-1481**	1M8 = **185-1468**	3M3 = **185-1490**	5M6 = **185-1504**	

	Price Each				
Order Code	50+	250+	1K+	5K+	10K+
0201 Case Size **All Values** ● RL					

0.063 Watt ±5% (0603 Case Size)

Stocked in the following OHMIC Values:

0R = **933-1662**	47R = **933-2138**	680R = **933-2251**	8K2 = **933-2324**	100K = **933-1719**
1R5 = **933-1832**	56R = **933-2197**	820R = **933-2316**	10K = **933-1700**	120K = **933-1778**
2R2 = **933-1948**	68R = **933-2243**	1K = **933-1697**	12K = **933-1760**	150K = **933-1824**
3R3 = **933-2073**	82R = **933-2308**	1K2 = **933-1751**	15K = **933-1816**	180K = **933-1883**
4R7 = **933-2189**	100R = **933-1689**	1K5 = **933-1808**	18K = **933-1875**	220K = **933-1930**
6R8 = **933-2294**	120R = **933-1743**	1K8 = **933-1867**	22K = **933-1921**	270K = **933-1999**
10R = **933-1670**	150R = **933-1794**	2K2 = **933-1913**	27K = **933-1980**	330K = **933-2057**
12R = **933-1735**	180R = **933-1859**	2K7 = **933-1972**	33K = **933-2049**	390K = **933-2120**
15R = **933-1786**	220R = **933-1905**	3K3 = **933-2022**	39K = **933-2111**	470K = **933-2170**
18R = **933-1840**	270R = **933-1964**	3K9 = **933-2103**	47K = **933-2162**	560K = **933-2235**
22R = **933-1891**	330R = **933-2014**	4K7 = **933-2154**	56K = **933-2227**	680K = **933-2286**
27R = **933-1956**	390R = **933-2090**	5K6 = **933-2219**	68K = **933-2278**	820K = **933-2340**
33R = **933-2006**	470R = **933-2146**	6K8 = **933-2260**	82K = **933-2332**	1M = **933-1727**
39R = **933-2081**	560R = **933-2200**			

	Price Each				
Order Code	50+	250+	1K+	5K+	15K+
0603 Case Size **All Values** ● RL					

0.1 Watt ±5% (0805 Case Size)

Stocked in the following OHMIC Values:

0R = **933-3681**	68R = **933-4777**	820R = **933-4890**	9K1 = **933-4955**	100K = **933-3738**
1R5 = **933-3959**	75R = **933-4831**	910R = **933-4947**	10K = **933-3720**	110K = **933-3797**
2R2 = **933-4173**	82R = **933-4882**	1K = **933-3711**	11K = **933-3789**	120K = **933-3843**
3R3 = **933-4394**	91R = **933-4939**	1K1 = **933-3770**	12K = **933-3835**	130K = **933-3894**
4R7 = **933-4610**	100R = **933-3703**	1K2 = **933-3827**	13K = **933-3886**	150K = **933-3940**
6R8 = **933-4823**	110R = **933-3762**	1K3 = **933-3878**	15K = **933-3932**	160K = **933-4009**
10R = **933-3690**	120R = **933-3819**	1K5 = **933-3924**	16K = **933-3991**	180K = **933-4050**
11R = **933-3754**	130R = **933-3860**	1K6 = **933-3983**	18K = **933-4041**	200K = **933-4106**
12R = **933-3800**	150R = **933-3916**	1K8 = **933-4033**	20K = **933-4092**	220K = **933-4165**
13R = **933-3851**	160R = **933-3975**	2K = **933-4084**	22K = **933-4157**	240K = **933-4238**
15R = **933-3908**	180R = **933-4025**	2K2 = **933-4149**	24K = **933-4220**	270K = **933-4289**
16R = **933-3967**	200R = **933-4076**	2K4 = **933-4203**	27K = **933-4270**	300K = **933-4335**
18R = **933-4017**	220R = **933-4130**	2K7 = **933-4262**	30K = **933-4327**	330K = **933-4386**
20R = **933-4068**	240R = **933-4190**	3K = **933-4319**	33K = **933-4378**	360K = **933-4459**
22R = **933-4122**	270R = **933-4254**	3K3 = **933-4360**	36K = **933-4440**	390K = **933-4505**
24R = **933-4181**	300R = **933-4300**	3K6 = **933-4432**	39K = **933-4491**	430K = **933-4556**
27R = **933-4246**	330R = **933-4351**	3K9 = **933-4483**	43K = **933-4548**	470K = **933-4602**
30R = **933-4297**	360R = **933-4416**	4K3 = **933-4530**	47K = **933-4599**	510K = **933-4661**
33R = **933-4343**	390R = **933-4475**	4K7 = **933-4580**	51K = **933-4653**	560K = **933-4718**
36R = **933-4408**	430R = **933-4521**	5K1 = **933-4645**	56K = **933-4700**	620K = **933-4769**
39R = **933-4467**	470R = **933-4572**	5K6 = **933-4696**	62K = **933-4750**	680K = **933-4815**
43R = **933-4513**	510R = **933-4637**	6K2 = **933-4742**	68K = **933-4807**	750K = **933-4874**
47R = **933-4564**	560R = **933-4688**	6K8 = **933-4793**	75K = **933-4866**	820K = **933-4920**
51R = **933-4629**	620R = **933-4734**	7K5 = **933-4858**	82K = **933-4912**	910K = **933-4971**
56R = **933-4670**	680R = **933-4785**	8K2 = **933-4904**	91K = **933-4963**	1M = **933-3746**
62R = **933-4726**	750R = **933-4840**			

	Price Each				
Order Code	50+	250+	1K+	5K+	15K+
0805 Case Size **All Values** ● RL					

0.125 Watt ±5% (1206 Case Size)

Stocked in the following OHMIC Values:

0R = **933-6974**	2R2 = **933-7253**	4R7 = **933-7474**	10R = **933-6982**	15R = **933-7091**
1R5 = **933-7148**	3R3 = **933-7369**	6R8 = **933-7580**	12R = **933-7040**	18R = **933-7156**
22R = **933-7202**	220R = **933-7210**	2K2 = **933-7229**	18K = **933-7180**	150K = **933-7130**
27R = **933-7261**	270R = **933-7270**	2K7 = **933-7288**	22K = **933-7237**	180K = **933-7199**
33R = **933-7318**	330R = **933-7326**	3K3 = **933-7334**	27K = **933-7296**	220K = **933-7245**
39R = **933-7377**	390R = **933-7385**	3K9 = **933-7393**	33K = **933-7342**	270K = **933-7300**
47R = **933-7423**	470R = **933-7431**	4K7 = **933-7440**	39K = **933-7407**	330K = **933-7350**
56R = **933-7482**	560R = **933-7490**	5K6 = **933-7504**	47K = **933-7458**	390K = **933-7415**
68R = **933-7539**	680R = **933-7547**	6K8 = **933-7555**	56K = **933-7512**	470K = **933-7466**
82R = **933-7598**	820R = **933-7601**	8K2 = **933-7610**	68K = **933-7563**	560K = **933-7520**
100R = **933-6990**	1K = **933-7008**	10K = **933-7016**	82K = **933-7628**	680K = **933-7571**
120R = **933-7059**	1K2 = **933-7067**	12K = **933-7075**	100K = **933-7024**	820K = **933-7636**
150R = **933-7105**	1K5 = **933-7113**	15K = **933-7121**	120K = **933-7083**	1M = **933-7032**
180R = **933-7164**	1K8 = **933-7172**			

207227

	Price Each				
Order Code	50+	250+	1K+	5K+	15K+
1206 Case Size **All Values** ● RL					

Automotive & Anti-Sulfuration

MCMR Series

- High reliability and stability
- Sulfuration resistant
- Automotive grade AEC Q-200 Compliant
- 100% CCD inspection

Applications:

- Automotive application
- Consumer electrical equipment
- EDP, Computer application
- Telecom application

Automotive & Anti-Sulfuration - continued

MCMR Series - continued

Resistance Range	Temperature Coefficient	Case Size	Maximum Working Voltage (V)	Maximum Working Voltage (V)
0Ω to ≥10Ω	-200ppm/°C to +400ppm/°C	0402	50V	62.5mW
>10Ω	± 100ppm/°C	0603	75V	100mW
		0805	150V	125mW
		1206	200V	250mW

0402 Case Size - 5%

Stocked in the following OHMIC Values:

1R =	207-2741	11K =	207-2553	200R =	207-2755	3M3 =	207-2940	56K =	207-3140
1R1 =	207-2742	110K =	207-2559	2K =	207-2756	36R =	207-2960	560K =	207-3141
1R2 =	207-2743	1M1 =	207-2560	20K =	207-2757	360R =	207-2965	5M6 =	207-3142
1R3 =	207-2744	12R =	207-2574	200K =	207-2758	3K6 =	207-2966	62R =	207-3170
1R5 =	207-2745	120R =	207-2581	2M =	207-2759	36K =	207-2967	620R =	207-3176
1R6 =	207-2746	1K2 =	207-2586	22R =	207-2778	360K =	207-2969	6K2 =	207-3177
1R8 =	207-2747	12K =	207-2587	220R =	207-2783	3M6 =	207-2971	62K =	207-3178
2R =	207-2886	120K =	207-2588	2K2 =	207-2789	39R =	207-2989	620K =	207-3179
2R2 =	207-2887	1M2 =	207-2594	22K =	207-2790	390R =	207-2995	6M2 =	207-3180
2R4 =	207-2888	13R =	207-2603	220K =	207-2791	3K9 =	207-2996	68R =	207-3199
2R7 =	207-2891	130R =	207-2608	2M2 =	207-2792	39K =	207-3001	680R =	207-3205
3R =	207-3007	1K3 =	207-2611	24R =	207-2812	390K =	207-3002	6K8 =	207-3210
3R3 =	207-3008	13K =	207-2612	240R =	207-2818	3M9 =	207-3003	68K =	207-3211
3R6 =	207-3009	130K =	207-2617	2K4 =	207-2819	43R =	207-3028	680K =	207-3212
3R9 =	207-3010	1M3 =	207-2618	24K =	207-2820	430R =	207-3034	6M8 =	207-3214
4R3 =	207-3091	15R =	207-2643	240K =	207-2825	4K3 =	207-3035	75R =	207-3235
4R7 =	207-3093	150R =	207-2649	2M4 =	207-2826	43K =	207-3040	7K5 =	207-3242
5R1 =	207-3156	1K5 =	207-2650	27R =	207-2852	430K =	207-3041	75K =	207-3243
5R6 =	207-3157	15K =	207-2651	270R =	207-2858	4M3 =	207-3042	750K =	207-3244
6R2 =	207-3222	150K =	207-2652	2K7 =	207-2859	47R =	207-3062	7M5 =	207-3245
6R8 =	207-3223	1M5 =	207-2657	27K =	207-2860	470R =	207-3068	750R =	207-3241
7R5 =	207-3259	16R =	207-2667	270K =	207-2861	4K7 =	207-3069	82R =	207-3266
8R2 =	207-3300	160R =	207-2673	2M7 =	207-2867	47K =	207-3070	820R =	207-3271
9R1 =	207-3336	1K6 =	207-2674	30R =	207-2892	470K =	207-3071	8K2 =	207-3272
10R =	207-2514	16K =	207-2679	300R =	207-2897	4M7 =	207-3072	82K =	207-3273
100R =	207-2522	160K =	207-2680	3K =	207-2902	51R =	207-3094	820K =	207-3275
1K =	207-2523	1M6 =	207-2681	30K =	207-2903	510R =	207-3099	8M2 =	207-3276
10K =	207-2528	18R =	207-2707	300K =	207-2904	5K1 =	207-3104	91R =	207-3307
100K =	207-2529	180R =	207-2712	3M =	207-2905	51K =	207-3105	910R =	207-3312
1M =	207-2530	1K8 =	207-2714	33R =	207-2926	510K =	207-3106	9K1 =	207-3313
10M =	207-2536	18K =	207-2719	330R =	207-2931	5M1 =	207-3107	91K =	207-3314
11R =	207-2546	180K =	207-2720	3K3 =	207-2933	56R =	207-3128	910K =	207-3315
110R =	207-2551	1M8 =	207-2721	33K =	207-2938	560R =	207-3133	9M1 =	207-3317
1K1 =	207-2552	20R =	207-2748	330K =	207-2939	5K6 =	207-3135		

	Order Code	Price Each 100+	500+	1K+	+	+
0402 Case Size - 5%	All Values ● RL					

0402 Case Size - 1%

Stocked in the following OHMIC Values:

0R =	207-2513	23R2 =	207-2810	62R =	207-3181	187R =	207-2722	511R =	207-3100
1R =	207-2500	23R7 =	207-2811	63R4 =	207-3187	191R =	207-2730	523R =	207-3112
3R3 =	207-2501	24R =	207-2833	64R9 =	207-3192	196R =	207-2734	536R =	207-3117
3R9 =	207-2502	24R3 =	207-2834	66R5 =	207-3198	200R =	207-2751	549R =	207-3123
4R3 =	207-2503	24R9 =	207-2835	68R =	207-3215	205R =	207-2760	560R =	207-3129
4R7 =	207-2504	25R5 =	207-2840	68R1 =	207-3216	210R =	207-2767	562R =	207-3136
4R99 =	207-2505	26R1 =	207-2850	69R8 =	207-3221	215R =	207-2771	576R =	207-3145
5R1 =	207-2507	26R7 =	207-2851	71R5 =	207-3229	220R =	207-2779	590R =	207-3151
5R6 =	207-2508	27R =	207-2868	73R2 =	207-3234	221R =	207-2784	604R =	207-3159
6R8 =	207-2509	27R4 =	207-2869	75R =	207-3246	226R =	207-2793	619R =	207-3165
7R5 =	207-2510	28R =	207-2879	76R8 =	207-3253	232R =	207-2801	620R =	207-3172
8R2 =	207-2511	28R7 =	207-2880	78R7 =	207-3258	237R =	207-2806	634R =	207-3182
9R1 =	207-2512	29R4 =	207-2885	80R6 =	207-3265	240R =	207-2813	649R =	207-3188
10R =	207-2541	30R =	207-2911	82R =	207-3281	243R =	207-2821	665R =	207-3193
10R2 =	207-2542	30R1 =	207-2912	82R5 =	207-3282	249R =	207-2827	680R =	207-3200
10R5 =	207-2544	30R9 =	207-2913	84R5 =	207-3288	255R =	207-2836	681R =	207-3206
10R7 =	207-2545	31R6 =	207-2918	86R6 =	207-3293	261R =	207-2842	698R =	207-3217
11R =	207-2570	32R4 =	207-2925	88R7 =	207-3299	267R =	207-2846	715R =	207-3224
11R3 =	207-2571	33R =	207-2941	90R9 =	207-3306	270R =	207-2854	732R =	207-3230
11R5 =	207-2572	33R2 =	207-2942	91R931 =	207-3318	274R =	207-2862	750R =	207-3236
11R8 =	207-2573	34R =	207-2952	93R1 =	207-3323	280R =	207-2870	768R =	207-3247
12R =	207-2599	34R8 =	207-2953	95R3 =	207-3329	287R =	207-2874	787R =	207-3254
12R1 =	207-2600	35R7 =	207-2959	97R6 =	207-3335	294R =	207-2881	806R =	207-3260
12R4 =	207-2601	36R =	207-2976	100R =	207-2515	300R =	207-2893	820R =	207-3267
12R7 =	207-2602	36R5 =	207-2977	102R =	207-2524	301R =	207-2898	825R =	207-3277
13R =	207-2624	37R4 =	207-2983	105R =	207-2532	309R =	207-2906	845R =	207-3283
13R3 =	207-2625	38R3 =	207-2988	107R =	207-2537	316R =	207-2914	866R =	207-3289
13R7 =	207-2626	39R =	207-3004	110R =	207-2547	324R =	207-2921	887R =	207-3294
14R =	207-2640	39R2 =	207-3005	113R =	207-2554	330R =	207-2927	909R =	207-3301
14R3 =	207-2641	40R2 =	207-3015	115R =	207-2561	332R =	207-2934	910R =	207-3308
14R7 =	207-2642	41R2 =	207-3022	118R =	207-2565	340R =	207-2943	931R =	207-3319
15R =	207-2664	42R2 =	207-3027	120R =	207-2575	348R =	207-2948	953R =	207-3324
15R4 =	207-2665	43R =	207-3044	121R =	207-2582	357R =	207-2954	976R =	207-3331
15R8 =	207-2666	43R2 =	207-3045	124R =	207-2589	360R =	207-2961	1K =	207-2516
16R =	207-2691	44R2 =	207-3050	127R =	207-2595	365R =	207-2972	1K02 =	207-2525
16R2 =	207-2692	45R3 =	207-3056	130R =	207-2604	374R =	207-2978	1K05 =	207-2533
16R5 =	207-2693	46R4 =	207-3061	133R =	207-2613	383R =	207-2984	1K07 =	207-2538
16R9 =	207-2694	47R =	207-3077	137R =	207-2619	390R =	207-2990	1K1 =	207-2548
17R4 =	207-2705	47R5 =	207-3078	140R =	207-2627	392R =	207-2997	1K13 =	207-2556
17R8 =	207-2706	47R7 =	207-3085	143R =	207-2631	402R =	207-3011	1K15 =	207-2562
18R =	207-2727	49R9 =	207-3090	147R =	207-2636	412R =	207-3016	1K18 =	207-2566
18R2 =	207-2728	51R =	207-3108	150R =	207-2644	422R =	207-3023	1K2 =	207-2576
18R7 =	207-2729	51R1 =	207-3111	154R =	207-2653	430R =	207-3029	1K21 =	207-2583
19R1 =	207-2739	52R3 =	207-3116	158R =	207-2659	432R =	207-3036	1K24 =	207-2590
19R6 =	207-2740	53R6 =	207-3121	160R =	207-2668	442R =	207-3046	1K27 =	207-2596
20R =	207-2765	54R9 =	207-3127	162R =	207-2675	453R =	207-3051	1K3 =	207-2605
20R5 =	207-2766	56R =	207-3143	165R =	207-2682	464R =	207-3057	1K33 =	207-2614
21R =	207-2776	56R2 =	207-3144	169R =	207-2687	470R =	207-3063	1K37 =	207-2620
21R5 =	207-2777	57R6 =	207-3150	174R =	207-2696	475R =	207-3073	1K4 =	207-2628
22R =	207-2797	59R =	207-3155	178R =	207-2700	487R =	207-3081	1K43 =	207-2632
22R1 =	207-2799	60R4 =	207-3164	180R =	207-2708	499R =	207-3086	1K47 =	207-2637
22R6 =	207-2800	61R9 =	207-3169	182R =	207-2715	510R =	207-3095	1K5 =	207-2645
1K54 =	207-2654	5K49 =	207-3124	21K5 =	207-2773	75K =	207-3239	294K =	207-2884
1K58 =	207-2661	5K6 =	207-3130	22K =	207-2781	76K8 =	207-3251	300K =	207-2896
1K6 =	207-2669	5K62 =	207-3137	22K1 =	207-2787	78K7 =	207-3256	301K =	207-2901
1K62 =	207-2676	5K76 =	207-3147	22K6 =	207-2795	80K6 =	207-3263	309K =	207-2910
1K65 =	207-2684	5K9 =	207-3152	23K2 =	207-2803	82K =	207-3269	316K =	207-2917
1K69 =	207-2688	6K04 =	207-3161	23K7 =	207-2808	82K5 =	207-3279	324K =	207-2924
1K74 =	207-2697	6K19 =	207-3166	24K =	207-2815	84K5 =	207-3285	330K =	207-2930
1K78 =	207-2702	6K2 =	207-3173	24K3 =	207-2823	86K6 =	207-3291	332K =	207-2937
1K8 =	207-2709	6K34 =	207-3184	24K9 =	207-2831	88K7 =	207-3296	340K =	207-2947
1K82 =	207-2716	6K49 =	207-3189	25K5 =	207-2838	90K9 =	207-3303	348K =	207-2951
1K87 =	207-2723	6K65 =	207-3194	26K1 =	207-2844	91K =	207-3310	357K =	207-2958
1K91 =	207-2731	6K8 =	207-3202	26K7 =	207-2848	93K1 =	207-3321	360K =	207-2964
1K96 =	207-2735	6K81 =	207-3207	27K =	207-2856	95K3 =	207-3326	365K =	207-2975
2K =	207-2752	6K98 =	207-3218	27K4 =	207-2864	97K6 =	207-3333	374K =	207-2982
2K05 =	207-2761	7K15 =	207-3226	28K =	207-2872	100K =	207-2519	383K =	207-2987
2K1 =	207-2768	7K32 =	207-3231	28K7 =	207-2876	102K =	207-2527	390K =	207-2994
2K15 =	207-2772	7K5 =	207-3238	29K4 =	207-2883	105K =	207-2535	392K =	207-3000
2K2 =	207-2780	7K68 =	207-3248	30K =	207-2895	107K =	207-2540	402K =	207-3014
2K21 =	207-2785	7K87 =	207-3255	30K1 =	207-2900	110K =	207-2550	412K =	207-3021
2K26 =	207-2794	8K06 =	207-3261	30K9 =	207-2909	113K =	207-2558	422K =	207-3026
2K32 =	207-2802	8K2 =	207-3268	31K6 =	207-2916	115K =	207-2564	430K =	207-3033
2K37 =	207-2807	8K25 =	207-3278	32K4 =	207-2923	118K =	207-2569	432K =	207-3039
2K4 =	207-2814	8K45 =	207-3284	33K =	207-2929	120K =	207-2578	442K =	207-3049
2K43 =	207-2822	8K66 =	207-3290	33K2 =	207-2936	121K =	207-2585	453K =	207-3054
2K49 =	207-2829	8K87 =	207-3295	34K =	207-2946	124K =	207-2593	464K =	207-3060
2K55 =	207-2837	9K09 =	207-3302	34K8 =	207-2950	127K =	207-2598	470K =	207-3066
2K61 =	207-2843	9K1 =	207-3309	35K7 =	207-2957	130K =	207-2607	475K =	207-3076
2K67 =	207-2847	9K31 =	207-3320	36K =	207-2963	133K =	207-2616	487K =	207-3084
2K7 =	207-2855	9K53 =	207-3325	36K5 =	207-2974	137K =	207-2623	499K =	207-3089
2K74 =	207-2863	9K76 =	207-3332	37K4 =	207-2980	140K =	207-2630	510K =	207-3098
2K8 =	207-2871	10K =	207-2517	38K3 =	207-2986	143K =	207-2635	511K =	207-3103
2K87 =	207-2875	10K2 =	207-2526	39K =	207-2992	147K =	207-2639	523K =	207-3115
2K94 =	207-2882	10K5 =	207-2534	39K2 =	207-2999	147K =	207-2699	536K =	207-3120
3K =	207-2894	10K7 =	207-2539	40K2 =	207-3013	150K =	207-2648	549K =	207-3126
3K01 =	207-2899	11K =	207-2549	41K2 =	207-3019	154K =	207-2656	560K =	207-3132
3K09 =	207-2908	11K3 =	207-2557	42K2 =	207-3025	158K =	207-2663	562K =	207-3139
3K16 =	207-2915	11K5 =	207-2563	43K =	207-3032	160K =	207-2672	576K =	207-3149
3K24 =	207-2922	11K8 =	207-2568	43K2 =	207-3038	162K =	207-2678	590K =	207-3154
3K3 =	207-2928	12K =	207-2577	44K2 =	207-3048	165K =	207-2686	604K =	207-3163
3K32 =	207-2935	12K1 =	207-2584	45K3 =	207-3053	169K =	207-2690	619K =	207-3168
3K4 =	207-2945	12K4 =	207-2591	46K4 =	207-3059	178K =	207-2704	620K =	207-3175
3K48 =	207-2949	12K7 =	207-2597	47K =	207-3065	180K =	207-2711	634K =	207-3186
3K57 =	207-2955	13K =	207-2606	47K5 =	207-3075	182K =	207-2718	649K =	207-3191
3K6 =	207-2962	13K3 =	207-2615	48K7 =	207-3083	187K =	207-2726	665K =	207-3197
3K65 =	207-2973	13K7 =	207-2621	49K9 =	207-3088	191K =	207-2733	680K =	207-3204
3K74 =	207-2979	14K =	207-2629	51K =	207-3097	196K =	207-2738	681K =	207-3209
3K83 =	207-2985	14K3 =	207-2633	51K1 =	207-3102	200K =	207-2754	698K =	207-3220
3K9 =	207-2991	14K7 =	207-2638	52K3 =	207-3114	205K =	207-2764	715K =	207-3228
3K92 =	207-2998	14K7 =	207-2698	53K6 =	207-3119	210K =	207-2770	732K =	207-3233
4K02 =	207-3012	15K =	207-2647	54K9 =	207-3125	215K =	207-2775	750K =	207-3240
4K12 =	207-3017	15K4 =	207-2655	56K =	207-3131	220K =	207-2782	768K =	207-3252
4K22 =	207-3024	15K8 =	207-2662	56K2 =	207-3138	221K =	207-2788	787K =	207-3257
4K3 =	207-3030	16K =	207-2670	57K6 =	207-3148	226K =	207-2796	806K =	207-3264
4K32 =	207-3037	16K2 =	207-2677	59K =	207-3153	232K =	207-2805	820K =	207-3270
4K42 =	207-3047	16K5 =	207-2685	60K4 =	207-3162	237K =	207-2809	825K =	207-3280
4K53 =	207-3052	16K9 =	207-2689	61K9 =	207-3167	240K =	207-2817	845K =	207-3287
4K64 =	207-3058	17K8 =	207-2703	62K =	207-3174	243K =	207-2824	866K =	207-3292
4K7 =	207-3064	18K =	207-2710	63K4 =	207-3185	249K =	207-2832	887K =	207-3297
4K75 =	207-3074	18K2 =	207-2717	64K9 =	207-3190	255K =	207-2839	909K =	207-3305
4K87 =	207-3082	18K7 =	207-2724	66K5 =	207-3196	261K =	207-2845	910K =	207-3311
4K99 =	207-3087	19K1 =	207-2732	68K =	207-3203	267K =	207-2849	931K =	207-3322
5K1 =	207-3096	19K6 =	207-2736	68K1 =	207-3208	270K =	207-2857	953K =	207-3327
5K11 =	207-3101	20K =	207-2753	69K8 =	207-3219	274K =	207-2866	976K =	207-3334
5K23 =	207-3113	20K5 =	207-2763	71K5 =	207-3227	280K =	207-2873	1M =	207-2521
5K36 =	207-3118	21K =	207-2769	73K2 =	207-3232	287K =	207-2878	10M =	207-2499

	Order Code	Price Each 100+	500+	1K+	+	+
0402 Case Size - 1%	All Values ● RL					

0603 Case Size - 5%

Stocked in the following OHMIC Values:

1R =	207-3416	100K =	207-3357	180R =	207-3409	300K =	207-3466	47K =	207-3515
2R2 =	207-3460	1M =	207-3358	180K =	207-3411	33R =	207-3471	470K =	207-3516
3R3 =	207-3495	10M =	207-3359	2K =	207-3423	330R =	207-3475	5K1 =	207-3528
5R1 =	207-3542	1K2 =	207-3376	20K =	207-3424	33K =	207-3476	560R =	207-3538
5R6 =	207-3543	1M2 =	207-3379	2K2 =	207-3436	390R =	207-3492	620K =	207-3550
10R =	207-3346	150R =	207-3394	220K =	207-3437	47R =	207-3507	680R =	207-3562
100R =	207-3352	1K5 =	207-3395	2K4 =	207-3445	470R =	207-3513	75R =	207-3569
1K =	207-3354	150K =	207-3396	27K =	207-3455	4K7 =	207-3514	820R =	207-3577
10K =	207-3356	16K =	207-3401	300R =	207-3463				

	Order Code	Price Each 100+	500+	1K+	+	+
0603 Case Size - 5%	All Values ● RL					

0603 Case Size - 1%

Stocked in the following OHMIC Values:

0R =	207-3345	62R =	207-3551	270R =	207-3451	1K21 =	207-3374	2K94 =	207-3458
4R7 =	207-3344	66R5 =	207-3556	330R =	207-3472	1K24 =	207-3378	3K =	207-3461
4R7 =	207-3521	68R =	207-3564	360R =	207-3480	1K27 =	207-3380	3K01 =	207-3464
10R =	207-3361	71R5 =	207-3567	374R =	207-3486	1K4 =	207-3385	3K16 =	207-3467
12R =	207-3381	75R =	207-3571	390R =	207-3489	1K5 =	207-3391	3K57 =	207-3479
20R =	207-3425	82R =	207-3578	422R =	207-3497	1K6 =	207-3399	3K6 =	207-3482
22R1 =	207-3438	91R =	207-3583	470R =	207-3508	1K71 =	207-3387	3K65 =	207-3484
24R3 =	207-3448	95R3 =	207-3585	560R =	207-3536	1K74 =	207-3404	3K74 =	207-3487
33R =	207-3477	100R =	207-3347	620R =	207-3546	1K8 =	207-3405	3K83 =	207-3488
36R =	207-3485	120R =	207-3369	649R =	207-3553	1K82 =	207-3410	3K9 =	207-3490
39R =	207-3494	121R =	207-3373	680R =	207-3557	1K96 =	207-3414	4K3 =	207-3499
43R =	207-3503	130R =	207-3382	681R =	207-3563	2K =	207-3418	4K42 =	207-3504
44R2 =	207-3505	150R =	207-3388	787R =	207-3573	2K1 =	207-3426	4K7 =	207-3509
45R3 =	207-3506	174R =	207-3403	1K =	207-3348	2K15 =	207-3427	4K75 =	207-3517
49R9 =	207-3520	196R =	207-3413	1K07 =	207-3360	2K2 =	207-3429	5K1 =	207-3522
51R =	207-3529	200R =	207-3417	1K1 =	207-3362	2K4 =	207-3442	5K11 =	207-3526
52R3 =	207-3530	220R =	207-3428	1K13 =	207-3364	2K55 =	207-3449	5K49 =	207-3531
54R9 =	207-3534	240R =	207-3441	1K15 =	207-3366	2K61 =	207-3450	5K6 =	207-3537
60R4 =	207-3545	249R =	207-3446	1K2 =	207-3370	2K7 =	207-3452	5K76 =	207-3540

RoHS ● Compliant ▲ Non-compliant

6K04 =	207-3544	14K =	207-3386	30K1 =	207-3465	68K =	207-3561	270K =	207-3454
6K2 =	207-3548	15K =	207-3392	31K6 =	207-3469	80K6 =	207-3574	294K =	207-3459
6K34 =	207-3552	15K4 =	207-3397	33K =	207-3473	82K =	207-3576	330K =	207-3474
6K49 =	207-3554	15K8 =	207-3398	39K =	207-3491	90K9 =	207-3580	348K =	207-3478
6K65 =	207-3555	16K =	207-3400	40K2 =	207-3496	91K =	207-3582	360K =	207-3483
6K8 =	207-3558	18K =	207-3406	42K2 =	207-3498	100K =	207-3350	470K =	207-3512
6K98 =	207-3565	18K7 =	207-3412	43K =	207-3501	102K =	207-3355	510K =	207-3525
7K32 =	207-3568	19K6 =	207-3415	43K2 =	207-3502	115K =	207-3367	549K =	207-3533
7K5 =	207-3570	20K =	207-3421	47K =	207-3510	120K =	207-3372	698K =	207-3566
8K2 =	207-3575	22K =	207-3430	47K5 =	207-3518	121K =	207-3375	1M =	207-3351
9K09 =	207-3579	22K1 =	207-3433	48K7 =	207-3519	130K =	207-3383	1M18 =	207-3338
9K1 =	207-3581	23K2 =	207-3439	51K =	207-3524	150K =	207-3393	1M54 =	207-3339
9K76 =	207-3586	23K7 =	207-3440	51K1 =	207-3527	165K =	207-3402	2M =	207-3340
10K =	207-3349	24K =	207-3443	54K9 =	207-3532	180K =	207-3408	2M21 =	207-3435
11K =	207-3363	24K9 =	207-3447	56K2 =	207-3539	200K =	207-3422	2M61 =	207-3342
11K8 =	207-3368	27K =	207-3453	59K =	207-3541	220K =	207-3431	3M3 =	207-3343
12K =	207-3371	28K =	207-3457	62K =	207-3549	221K =	207-3434	10M =	207-3337
13K7 =	207-3384	30K =	207-3462						

	Order Code	Price Each 100+	500+	1K+	+	+
0603 Case Size - 1%	All Values ● RL					

0805 Case Size - 5%

Stocked in the following OHMIC Values:

2R7 =	207-3727	12K =	207-3630	220K =	207-3698	33K =	207-3750	560R =	207-3807
3R9 =	207-3767	130K =	207-3639	2M2 =	207-3700	330K =	207-3751	5K6 =	207-3809
4R7 =	207-3793	1K5 =	207-3648	24K =	207-3706	36R =	207-3753	56K =	207-3812
6R2 =	207-3835	15K =	207-3649	27R =	207-3712	3K9 =	207-3762	62R =	207-3818
7R5 =	207-3846	160K =	207-3655	270R =	207-3716	39K =	207-3764	6K8 =	207-3829
10R =	207-3604	18R =	207-3665	2K7 =	207-3718	47R =	207-3776	68K =	207-3830
100R =	207-3610	180R =	207-3669	27K =	207-3719	470R =	207-3783	680K =	207-3831
1K =	207-3611	1K8 =	207-3670	270K =	207-3720	4K7 =	207-3784	75R =	207-3838
10K =	207-3612	18K =	207-3673	300R =	207-3734	47K =	207-3785	750R =	207-3841
100K =	207-3613	2K =	207-3685	3K =	207-3735	470K =	207-3786	82R =	207-3848
1M =	207-3615	20K =	207-3686	30K =	207-3736	51R =	207-3794	820R =	207-3851
110K =	207-3619	200K =	207-3688	300K =	207-3737	510R =	207-3798	82K =	207-3852
12R =	207-3623	220R =	207-3693	33R =	207-3740	5K1 =	207-3801	910R =	207-3859
120R =	207-3628	2K2 =	207-3696	330R =	207-3745	51K =	207-3802	9K1 =	207-3860
1K2 =	207-3629	22K =	207-3697	3K3 =	207-3746				

	Order Code	Price Each 100+	500+	1K+	+	+
0805 Case Size - 5%	All Values ● RL					

0805 Case Size - 1%

Stocked in the following OHMIC Values:

0R =	207-3603	240R =	207-3703	4K32 =	207-3771	25K5 =	207-3710	150K =	207-3647
1R =	207-3591	274R =	207-3721	4K7 =	207-3779	27K =	207-3714	160K =	207-3653
1R6 =	207-3592	294R =	207-3724	5K1 =	207-3796	27K4 =	207-3722	162K =	207-3654
3R4 =	207-3595	300R =	207-3728	5K11 =	207-3799	28K =	207-3723	165K =	207-3657
4R32 =	207-3598	324R =	207-3739	5K36 =	207-3804	30K =	207-3732	169K =	207-3660
4R7 =	207-3599	330R =	207-3741	5K6 =	207-3805	33K =	207-3743	180K =	207-3668
5R6 =	207-3600	390R =	207-3759	5K76 =	207-3813	33K2 =	207-3748	182K =	207-3672
8R25 =	207-3601	470R =	207-3777	5K9 =	207-3814	34K =	207-3752	187K =	207-3676
10R =	207-3616	499R =	207-3789	6K8 =	207-3823	36K =	207-3756	196K =	207-3680
12R =	207-3634	510R =	207-3795	6K81 =	207-3826	39K =	207-3761	200K =	207-3684
16R9 =	207-3661	604R =	207-3815	7K87 =	207-3843	40K2 =	207-3769	220K =	207-3692
17R4 =	207-3664	665R =	207-3822	8K2 =	207-3849	41K2 =	207-3770	221K =	207-3695
18R2 =	207-3677	750R =	207-3839	8K25 =	207-3853	44K2 =	207-3773	249K =	207-3709
22R =	207-3701	787R =	207-3842	9K1 =	207-3858	45K3 =	207-3774	270K =	207-3715
22R1 =	207-3702	866R =	207-3854	9K53 =	207-3862	47K =	207-3781	294K =	207-3726
39R2 =	207-3765	1K =	207-3606	9K76 =	207-3864	51K =	207-3797	300K =	207-3733
43R =	207-3772	1K5 =	207-3645	10K =	207-3607	51K1 =	207-3800	330K =	207-3744
45R3 =	207-3775	1K69 =	207-3658	11K =	207-3617	56K2 =	207-3811	332K =	207-3749
47R =	207-3787	1K74 =	207-3662	12K =	207-3625	60K4 =	207-3816	374K =	207-3757
49R9 =	207-3792	1K8 =	207-3666	12K4 =	207-3631	64K9 =	207-3820	470K =	207-3782
51R1 =	207-3803	2K =	207-3682	12K7 =	207-3632	68K =	207-3824	487K =	207-3788
60R4 =	207-3817	2K1 =	207-3689	13K3 =	207-3636	68K1 =	207-3827	499K =	207-3790
62R =	207-3819	2K2 =	207-3690	14K =	207-3642	75K =	207-3840	560K =	207-3806
68R =	207-3832	2K21 =	207-3694	14K7 =	207-3644	78K7 =	207-3844	680K =	207-3825
69R8 =	207-3834	2K4 =	207-3704	15K =	207-3646	80K6 =	207-3847	681K =	207-3828
71R5 =	207-3836	2K67 =	207-3711	16K =	207-3652	82K =	207-3850	909K =	207-3856
73R2 =	207-3837	2K7 =	207-3713	16K5 =	207-3656	86K6 =	207-3855	976K =	207-3865
93R1 =	207-3861	2K94 =	207-3725	16K9 =	207-3659	95K3 =	207-3863	1M =	207-3609
100R =	207-3605	3K =	207-3731	18K =	207-3667	100K =	207-3608	1M07 =	207-3588
118R =	207-3621	3K16 =	207-3738	18K2 =	207-3671	110K =	207-3618	1M2 =	207-3589
120R =	207-3624	3K32 =	207-3747	18K7 =	207-3674	115K =	207-3620	1M62 =	207-3590
130R =	207-3635	3K6 =	207-3755	19K6 =	207-3679	118K =	207-3622	2M2 =	207-3593
140R =	207-3641	3K83 =	207-3758	20K =	207-3683	120K =	207-3627	3M =	207-3594
160R =	207-3650	3K9 =	207-3760	22K =	207-3691	127K =	207-3633	4M53 =	207-3597
196R =	207-3678	3K92 =	207-3763	24K3 =	207-3707	133K =	207-3637	10M =	207-3587
200R =	207-3681	4K02 =	207-3768	24K9 =	207-3708	140K =	207-3643		

	Order Code	Price Each 100+	500+	1K+	+	+
0805 Case Size - 1%	All Values ● RL					

1206 Case Size - 5%

Stocked in the following OHMIC Values:

1R =	207-3902	1M =	207-3884	160K =	207-3898	2K2 =	207-3913	51R =	207-3932
5R6 =	207-3939	110R =	207-3886	18R =	207-3899	3K =	207-3916	5K1 =	207-3934
9R1 =	207-3954	1K2 =	207-3888	1K8 =	207-3901	330R =	207-3921	5K6 =	207-3938
10R =	207-3875	1K3 =	207-3890	20R =	207-3903	3K3 =	207-3922	6K2 =	207-3942
100R =	207-3880	150R =	207-3892	2M =	207-3905	360R =	207-3923	680R =	207-3945
1K =	207-3881	1K5 =	207-3893	22R =	207-3907	470R =	207-3928	82R =	207-3949
100K =	207-3883	1K6 =	207-3897	220R =	207-3911	4K7 =	207-3929	91R =	207-3953

	Order Code	Price Each 100+	500+	1K+	+	+
1206 Case Size - 5%	All Values ● RL					

1206 Case Size - 1%

Stocked in the following OHMIC Values:

0R =	207-3874	3R4 =	207-3868	8R25 =	207-3873	15R =	207-3895	30R =	207-3917
2R2 =	207-3867	8R2 =	207-3872	10R =	207-3885	20R =	207-3906	30R9 =	207-3918
49R9 =	207-3931	300R =	207-3914	1K =	207-3877	5K6 =	207-3937	100K =	207-3879
60R4 =	207-3940	442R =	207-3927	1K18 =	207-3887	7K5 =	207-3946	200K =	207-3904
61R9 =	207-3941	510R =	207-3933	1K5 =	207-3891	10K =	207-3878	499K =	207-3930
62R =	207-3943	560R =	207-3935	2K2 =	207-3909	13K =	207-3889	825K =	207-3952
100R =	207-3876	680R =	207-3944	3K =	207-3915	22K =	207-3910	5M6 =	207-3871
160R =	207-3896	768R =	207-3947	3K3 =	207-3919	33K =	207-3920	10M =	207-3866
220R =	207-3908	820R =	207-3951	3K9 =	207-3925	41K2 =	207-3926		

660223

	Order Code	Price Each 100+	500+	1K+	+	+
1206 Case Size - 1%	All Values ● RL					

Surface Mount - ±1%

Operating temperature -55°C to + 125°C

Case Size	Maximum Working Voltage (V)	Case Size	Maximum Working Voltage (V)
0201	25	0805	150
0402	50	1206	200
0603	50		

0.05 Watt ±1% (0201 Case Size)

Stocked in the following OHMIC Values

0R =	171-1553	24R =	171-1572	620R =	171-1609	16K =	171-1646	430K =	171-1685
1R =	214-1369	27R =	171-1573	680R =	171-1610	18K =	171-1648	470K =	171-1687
1R1 =	214-1370	30R =	171-1574	750R =	171-1612	20K =	171-1649	510K =	171-1688
1R2 =	214-1372	33R =	171-1575	820R =	171-1613	22K =	171-1650	560K =	171-1689
1R3 =	214-1373	36R =	171-1576	910R =	171-1614	24K =	171-1651	620K =	171-1690
1R5 =	171-1555	39R =	171-1577	1K =	171-1615	27K =	171-1652	680K =	171-1691
1R6 =	214-1374	43R =	171-1578	1K1 =	171-1616	30K =	171-1653	750K =	171-1692
1R8 =	214-1375	47R =	171-1579	1K2 =	171-1617	33K =	171-1654	820K =	171-1693
2R =	214-1376	51R =	171-1580	1K3 =	171-1618	36K =	171-1655	910K =	171-1694
2R2 =	171-1557	56R =	171-1582	1K5 =	171-1619	39K =	171-1656	1M =	171-1695
2R4 =	214-1377	62R =	171-1583	1K6 =	171-1620	43K =	171-1657	1M1 =	214-1390
2R7 =	214-1378	68R =	171-1584	1K8 =	171-1621	47K =	171-1658	1M2 =	214-1391
3R =	214-1379	75R =	171-1585	2K =	171-1622	51K =	171-1661	1M3 =	214-1392
3R3 =	171-1558	82R =	171-1586	2K2 =	171-1624	56K =	171-1662	1M5 =	214-1393
3R6 =	214-1380	91R =	171-1587	2K4 =	171-1625	62K =	171-1663	1M6 =	214-1394
3R9 =	214-1381	100R =	171-1588	2K7 =	171-1626	68K =	171-1664	1M8 =	214-1396
4R3 =	214-1382	110R =	171-1589	3K =	171-1627	75K =	171-1665	2M =	214-1397
4R7 =	171-1559	120R =	171-1590	3K3 =	171-1628	82K =	171-1666	2M2 =	214-1398
5R1 =	214-1384	130R =	171-1591	3K6 =	171-1629	91K =	171-1667	2M4 =	214-1399
5R6 =	214-1385	150R =	171-1592	3K9 =	171-1630	100K =	171-1668	2M7 =	214-1400
6R2 =	214-1386	160R =	171-1594	4K3 =	171-1631	110K =	171-1669	3M =	214-1402
6R8 =	171-1560	180R =	171-1595	4K7 =	171-1632	120K =	171-1670	3M3 =	214-1403
7R5 =	214-1387	200R =	171-1596	5K1 =	171-1633	130K =	171-1671	3M6 =	214-1404
8R2 =	214-1388	220R =	171-1597	5K6 =	171-1634	150K =	171-1673	3M9 =	214-1405
9R1 =	214-1389	240R =	171-1598	6K2 =	171-1636	160K =	171-1674	4M3 =	214-1406
10R =	171-1561	270R =	171-1599	6K8 =	171-1637	180K =	171-1675	4M7 =	214-1407
11R =	171-1562	300R =	171-1601	7K5 =	171-1638	200K =	171-1676	5M1 =	214-1408
12R =	171-1563	330R =	171-1602	8K2 =	171-1639	220K =	171-1677	5M6 =	214-1409
13R =	171-1564	360R =	171-1603	9K1 =	171-1640	240K =	171-1678	6M2 =	214-1410
15R =	171-1565	390R =	171-1604	10K =	171-1641	270K =	171-1679	6M8 =	214-1411
16R =	171-1566	430R =	171-1605	11K =	171-1642	300K =	171-1680	7M5 =	214-1412
18R =	171-1567	470R =	171-1606	12K =	171-1643	330K =	171-1681	8M2 =	214-1414
20R =	171-1569	510R =	171-1607	13K =	171-1644	360K =	171-1682	9M1 =	214-1415
22R =	171-1571	560R =	171-1608	15K =	171-1645	390K =	171-1683	10M =	214-1416

	Order Code	Price Each 50+	250+	1K+	5K+	10K+
0201 Case Size	NEW All values ● RL					

0.0625 Watt ±1% (0402 Case Size)

Stocked in the following OHMIC Values

0R =	135-7983	11R =	135-7990	38R3 =	180-2893	133R =	180-2945	464R =	180-3000
1R =	214-1417	11R5 =	180-2848	39R =	135-8004	140R =	180-2947	470R =	135-8034
1R1 =	214-1418	12R =	135-7991	40R2 =	180-2895	147R =	180-2949	475R =	180-3002
1R2 =	214-1419	12R1 =	180-2849	42R2 =	180-2898	150R =	135-8020	487R =	180-3003
1R3 =	214-1420	12R7 =	180-2851	43R =	135-8006	154R =	180-2950	510R =	135-8035
1R5 =	135-7984	13R =	135-7993	44R2 =	180-2900	160R =	135-8021	511R =	180-3005
1R54 =	214-1421	13R3 =	180-2852	46R4 =	180-2903	162R =	180-2953	536R =	180-3007
1R6 =	214-1422	14R =	180-2853	47R =	135-8007	169R =	180-2955	560R =	135-8036
1R8 =	214-1423	14R7 =	180-2855	48R7 =	180-2905	178R =	180-2957	562R =	180-3009
2R =	214-1424	15R =	135-7994	49R9 =	180-2906	180R =	135-8022	590R =	180-3015
2R2 =	135-7985	15R4 =	180-2856	51R =	135-8008	187R =	180-2959	619R =	180-3017
2R4 =	214-1426	16R =	135-7995	51R1 =	214-1451	196R =	180-2961	620R =	135-8037
2R49 =	214-1427	16R2 =	180-2857	53R6 =	180-2908	200R =	135-8023	649R =	180-3019
2R61 =	214-1428	16R9 =	180-2861	56R =	135-8009	205R =	180-2962	680R =	135-8038
2R7 =	214-1429	17R8 =	180-2862	56R2 =	180-2910	215R =	180-2965	681R =	180-3021
2R74 =	214-1430	18R =	135-7996	59R =	180-2912	220R =	135-8024	715R =	180-3023
3R =	214-1431	18R7 =	180-2864	61R9 =	180-2915	226R =	180-2967	750R =	135-8039
3R16 =	214-1432	19R6 =	180-2866	62R =	135-8010	237R =	180-2969	787R =	180-3027
3R3 =	135-7986	20R =	135-7997	64R9 =	180-2917	240R =	214-1454	820R =	135-8040
3R32 =	214-1433	20R5 =	180-2867	68R =	135-8011	249R =	180-2971	825R =	180-3029
3R6 =	214-1434	21R5 =	180-2869	68R1 =	180-2919	261R =	180-2973	866R =	180-3031
3R83 =	214-1435	22R =	135-7998	71R5 =	180-2920	270R =	135-8026	909R =	180-3033
3R9 =	214-1436	22R6 =	180-2871	75R =	135-8012	274R =	180-2976	910R =	135-8041
4R22 =	214-1438	23R7 =	180-2874	78R7 =	180-2923	287R =	180-2978	953R =	180-3035
4R3 =	214-1439	24R =	135-7999	82R =	135-8013	300R =	135-8027	1K =	135-8043
4R7 =	135-7987	24R9 =	180-2876	82R5 =	180-2925	301R =	180-2980	1K05 =	180-3039
5R1 =	214-1440	26R1 =	180-2878	86R6 =	180-2928	316R =	180-2982	1K1 =	135-8044
5R11 =	214-1441	27R =	135-8000	90R9 =	180-2930	330R =	135-8028	1K15 =	180-3042
5R36 =	214-1442	27R4 =	180-2880	91R =	135-8014	332R =	180-2984	1K2 =	135-8045
5R6 =	214-1443	28R7 =	180-2882	95R3 =	180-2932	348R =	180-2986	1K21 =	180-3044
5R62 =	214-1444	30R =	135-8001	100R =	135-8015	360R =	135-8031	1K27 =	180-3046
6R2 =	214-1445	30R1 =	180-2883	105R =	180-2935	365R =	180-2989	1K3 =	135-8046
6R8 =	135-7988	31R6 =	180-2886	110R =	135-8016	383R =	214-1455	1K33 =	180-3047
7R5 =	214-1446	33R =	135-8002	115R =	180-2939	390R =	135-8032	1K4 =	180-3051
8R2 =	214-1447	33R2 =	180-2887	120R =	135-8018	402R =	180-2993	1K47 =	180-3053
9R1 =	214-1448	34R8 =	180-2889	121R =	214-1452	422R =	180-2995	1K5 =	135-8047
10R =	135-7989	36R =	135-8003	127R =	214-1453	430R =	135-8033	1K54 =	180-3054
10R5 =	180-2846	36R5 =	180-2891	130R =	135-8019	442R =	180-2997	1K6 =	135-8048

Surface Mount - ±1% - continued

1K62 =	180-3056	6K81 =	180-3121	34K8 =	180-3706	160K =	135-8101	681K =	180-3831
1K69 =	180-3058	7K15 =	180-3123	36K =	135-8084	162K =	214-1461	715K =	180-3833
1K78 =	180-3060	7K5 =	135-8065	36K5 =	180-3708	169K =	180-3770	750K =	135-8119
1K8 =	135-8049	7K87 =	180-3126	38K3 =	180-3710	178K =	214-1463	787K =	180-3836
1K87 =	180-3063	8K2 =	135-8067	39K =	135-8085	180K =	135-8102	820K =	135-8120
1K96 =	180-3065	8K25 =	180-3129	40K2 =	180-3713	187K =	180-3774	825K =	180-3838
2K =	135-8050	8K66 =	180-3132	42K2 =	180-3715	196K =	180-3776	866K =	180-3842
2K05 =	180-3066	9K09 =	180-3134	43K =	135-8086	200K =	135-8103	909K =	180-3844
2K15 =	180-3068	9K1 =	135-8068	44K2 =	214-1459	205K =	180-3777	910K =	135-8122
2K2 =	135-8051	9K53 =	180-3135	46K4 =	180-3718	215K =	214-1464	953K =	180-3846
2K26 =	180-3070	10K =	135-8069	47K =	135-8087	220K =	135-8104	1M =	135-8123
2K37 =	180-3072	10K5 =	180-3138	47K5 =	214-1460	226K =	180-3781	1M05 =	214-1465
2K4 =	135-8052	11K =	135-8070	48K7 =	180-3719	237K =	180-3783	1M1 =	214-1466
2K49 =	180-3075	11K5 =	180-3142	49K9 =	180-3720	240K =	135-8105	1M2 =	214-1467
2K61 =	180-3077	12K =	135-8071	51K =	135-8088	249K =	180-3786	1M21 =	214-1468
2K7 =	135-8053	12K1 =	180-3144	51K1 =	180-3721	261K =	180-3788	1M27 =	214-1469
2K74 =	180-3079	12K4 =	180-3145	53K6 =	180-3723	270K =	135-8106	1M3 =	214-1470
2K87 =	180-3081	12K7 =	214-1457	56K =	135-8089	274K =	180-3790	1M4 =	214-1471
3K =	135-8055	13K =	135-8072	56K2 =	180-3726	287K =	180-3791	1M47 =	214-1472
3K01 =	180-3083	12K7 =	180-3146	59K =	180-3728	300K =	135-8107	1M5 =	214-1473
3K16 =	180-3085	14K =	180-3149	61K9 =	180-3730	301K =	180-3793	1M6 =	214-1475
3K3 =	135-8056	14K7 =	180-3151	62K =	135-8090	316K =	180-3795	1M69 =	214-1476
3K32 =	214-1456	15K =	135-8073	64K9 =	180-3732	330K =	135-8109	1M8 =	214-1477
3K48 =	180-3090	15K4 =	180-3152	68K =	135-8092	332K =	180-3798	2M =	214-1478
3K6 =	135-8057	16K =	135-8074	68K1 =	180-3734	348K =	180-3800	2M2 =	214-1479
3K65 =	180-3092	16K2 =	180-3155	71K5 =	180-3737	360K =	135-8111	2M4 =	214-1480
3K83 =	180-3094	16K9 =	214-1458	75K =	135-8093	365K =	180-3802	2M7 =	214-1481
3K9 =	135-8058	17K8 =	180-3676	78K7 =	180-3740	383K =	180-3805	2M87 =	214-1482
4K02 =	180-3096	18K =	135-8075	82K =	135-8094	390K =	135-8112	3M =	214-1483
4K22 =	180-3099	18K7 =	180-3678	82K5 =	180-3742	402K =	180-3807	3M01 =	214-1484
4K3 =	135-8059	19K6 =	180-3680	86K6 =	180-3744	422K =	180-3809	3M3 =	214-1485
4K42 =	180-3101	20K =	135-8076	90K9 =	180-3746	430K =	135-8113	3M32 =	214-1487
4K64 =	180-3103	20K5 =	180-3681	91K =	135-8095	442K =	180-3811	3M6 =	214-1488
4K7 =	135-8060	21K5 =	180-3684	95K3 =	180-3749	464K =	180-3813	3M9 =	214-1489
4K75 =	180-3105	22K =	135-8077	100K =	135-8096	470K =	135-8114	4M02 =	214-1490
4K87 =	180-3106	22K6 =	180-3686	105K =	180-3753	487K =	180-3816	4M3 =	214-1491
4K99 =	180-3107	23K7 =	180-3688	110K =	135-8097	499K =	180-3817	4M7 =	214-1492
5K1 =	135-8061	24K =	135-8079	115K =	180-3756	510K =	135-8115	4M87 =	214-1493
5K11 =	180-3108	24K9 =	180-3690	120K =	135-8098	511K =	180-3818	5M1 =	214-1494
5K36 =	180-3110	26K1 =	180-3692	121K =	180-3758	536K =	180-3820	5M36 =	214-1495
5K6 =	135-8062	27K =	135-8081	127K =	180-3760	560K =	135-8116	5M6 =	214-1496
5K62 =	180-3112	27K4 =	180-3695	127K =	180-3760	562K =	180-3822	6M2 =	214-1497
5K9 =	180-3114	28K7 =	180-3697	133K =	180-3762	590K =	180-3824	6M8 =	214-1499
6K04 =	180-3115	30K =	135-8082	140K =	180-3764	619K =	180-3826	7M5 =	214-1500
6K19 =	180-3117	30K1 =	180-3699	147K =	180-3766	620K =	135-8117	8M2 =	214-1501
6K2 =	135-8063	31K6 =	180-3702	150K =	135-8100	649K =	180-3829	9M1 =	214-1502
6K49 =	180-3119	33K =	135-8083	154K =	180-3767	680K =	135-8118	10M =	214-1503
6K8 =	135-8064	33K2 =	180-3704						

	Order Code	Price Each 50+	250+	1K+	5K+	15K+
0402 Case Size	All values ● RL					

0.063 Watt ±1% (0603 Case Size)

Stocked in the following OHMIC Values

0R =	933-1662	6R19 =	214-1550	33R2 =	117-0639	160R =	933-0658	680R =	933-1441
1R =	214-1505	6R2 =	214-1551	34R8 =	117-0641	162R =	117-0707	715R =	117-0774
1R5 =	933-0640	6R49 =	214-1552	36R =	933-1123	169R =	117-0709	750R =	933-1506
1R1 =	214-1506	6R8 =	933-1492	36R5 =	117-0643	178R =	117-0711	787R =	117-0778
1R15 =	214-1507	6R81 =	214-1554	38R3 =	117-0645	180R =	933-0704	820R =	933-1557
1R2 =	214-1508	7R15 =	214-1555	39R =	933-1174	187R =	117-0713	825R =	117-0780
1R21 =	214-1509	7R5 =	214-1556	40R2 =	117-0647	196R =	117-0716	866R =	117-0782
1R27 =	214-1510	7R87 =	214-1557	42R2 =	117-0651	200R =	933-0755	909R =	117-0784
1R3 =	214-1511	8R2 =	214-1558	43R =	933-1220	205R =	117-0717	910R =	933-1603
1R33 =	214-1512	8R25 =	214-1559	44R2 =	117-0653	215R =	117-0719	953R =	117-0786
1R4 =	214-1513	8R66 =	214-1560	46R4 =	117-0655	220R =	933-0801	1K =	933-0380
1R47 =	214-1514	9R1 =	214-1561	47R =	933-1271	226R =	117-0721	1K05 =	117-0791
1R5 =	933-0640	9R53 =	214-1562	48R7 =	117-0657	237R =	117-0723	1K1 =	933-0445
1R54 =	214-1515	10R =	933-0429	49R9 =	117-0658	240R =	933-0860	1K15 =	117-0794
1R6 =	214-1517	10R5 =	117-0598	51R =	933-1336	249R =	117-0725	1K2 =	933-0500
1R62 =	214-1518	11R =	933-0470	51R1 =	214-1563	261R =	117-0728	1K21 =	117-0796
1R78 =	214-1519	11R5 =	117-0599	53R6 =	117-0660	270R =	933-0917	1K27 =	117-0798
1R8 =	214-1520	12R =	933-0534	56R =	933-1387	274R =	117-0730	1K3 =	933-0550
1R87 =	214-1521	12R1 =	117-0601	56R2 =	117-0663	287R =	117-0732	1K33 =	117-0799
1R96 =	214-1522	13R =	933-0585	59R =	117-0665	300R =	933-0968	1K4 =	117-0801
2R =	214-1523	14R =	117-0605	61R9 =	117-0667	301R =	117-0734	1K47 =	117-0803
2R2 =	933-0852	14R7 =	117-0607	62R =	933-1433	316R =	117-0736	1K5 =	933-0607
2R4 =	214-1524	15R =	933-0631	64R9 =	117-0669	330R =	933-1018	1K54 =	117-0804
2R49 =	214-1525	15R4 =	117-0608	68R =	933-1484	332R =	117-0738	1K6 =	933-0666
2R7 =	214-1526	16R =	933-0690	68R1 =	117-0671	348R =	117-0742	1K62 =	117-0807
2R74 =	214-1527	16R2 =	117-0609	71R5 =	117-0672	360R =	933-1077	1K69 =	117-0809
2R87 =	214-1529	16R9 =	117-0611	75R =	933-1549	365R =	117-0744	1K78 =	117-0811
3R =	214-1531	17R8 =	117-0613	78R7 =	117-0676	383R =	117-0746	1K8 =	933-0712
3R16 =	214-1532	18R =	933-0747	82R =	933-1590	390R =	933-1131	1K87 =	117-0813
3R3 =	933-1069	18R7 =	117-0616	82R5 =	117-0679	402R =	117-0748	1K96 =	117-0815
3R32 =	214-1533	19R6 =	117-0618	86R6 =	117-0681	422R =	117-0750	2K =	933-0763
3R48 =	214-1534	20R =	933-0798	90R9 =	117-0683	430R =	933-1182	2K05 =	117-0816
3R6 =	214-1535	20R5 =	117-0619	91R =	933-1646	442R =	117-0753	2K15 =	117-0819
3R65 =	214-1536	21R5 =	117-0621	95R3 =	117-0686	464R =	117-0755	2K2 =	933-0810
3R83 =	214-1537	22R =	933-0844	100R =	933-0364	470R =	933-1239	2K26 =	117-0822
3R9 =	214-1538	22R6 =	117-0623	105R =	117-0689	475R =	117-0756	2K37 =	117-0824
4R22 =	214-1539	23R7 =	117-0626	110R =	933-0437	487R =	117-0757	2K4 =	933-0879
4R3 =	214-1540	24R =	933-0909	115R =	117-0692	510R =	933-1298	2K49 =	117-0826
4R42 =	214-1542	24R9 =	117-0628	120R =	933-0496	511R =	117-0759	2K61 =	117-0828
4R64 =	214-1543	26R1 =	117-0630	121R =	117-0694	536R =	117-0761	2K7 =	933-0925
4R7 =	933-1280	27R =	933-0950	127R =	117-0698	560R =	933-1344	2K74 =	117-0830
4R87 =	214-1544	27R4 =	117-0632	130R =	933-0542	562R =	117-0763	2K87 =	117-0834
5R1 =	214-1545	28R7 =	117-0634	133R =	117-0699	590R =	117-0766	3K =	933-0976
5R11 =	214-1546	30R =	933-1000	140R =	117-0701	619R =	117-0768	3K01 =	117-0836
5R6 =	214-1547	30R1 =	117-0635	147R =	117-0704	620R =	933-1395	3K16 =	117-0838
5R62 =	214-1548	31R6 =	117-0638	150R =	933-0593	649R =	117-0770	3K3 =	933-1026
5R9 =	214-1549	33R =	933-1050	154R =	117-0705	680R =	933-1441	3K32 =	117-0840
3K48 =	117-0842	15K =	933-0615	61K9 =	117-0966	300K =	933-0992	1M4 =	214-1578
3K6 =	933-1085	15K4 =	117-0904	62K =	933-1417	301K =	117-1031	1M5 =	214-1579
3K65 =	117-0845	16K =	933-0674	64K9 =	117-0968	316K =	117-1034	1M54 =	214-1580
3K83 =	117-0847	16K2 =	117-0906	68K =	933-1468	330K =	933-1042	1M6 =	214-1581
3K9 =	933-1140	16K9 =	117-0908	68K1 =	117-0970	332K =	117-1037	1M62 =	214-1582
4K02 =	117-0849	17K8 =	117-0912	71K5 =	117-0973	348K =	117-1039	1M69 =	214-1583
4K22 =	117-0851	18K =	933-0720	75K =	933-1522	360K =	933-1115	1M78 =	214-1584
4K3 =	933-1190	18K7 =	117-0914	78K7 =	117-0976	365K =	117-1041	1M8 =	214-1585
4K42 =	117-0853	19K6 =	117-0916	82K =	933-1573	390K =	933-1166	1M87 =	214-1586
4K64 =	117-0856	20K =	933-0771	82K5 =	117-0978	402K =	117-1046	2M =	214-1587
4K7 =	933-1247	20K5 =	117-0917	86K6 =	117-0980	422K =	117-1048	2M2 =	214-1588
4K75 =	117-0857	21K5 =	117-0919	90K9 =	117-0982	430K =	933-1212	2M26 =	214-1591
4K87 =	117-0858	22K =	933-0828	91K =	933-1620	442K =	117-1050	2M37 =	214-1592
4K99 =	117-0859	22K6 =	117-0921	95K3 =	117-0985	464K =	117-1052	2M4 =	214-1593
5K1 =	933-1301	23K7 =	117-0924	100K =	933-0402	470K =	933-1263	2M49 =	214-1594
5K11 =	117-0860	24K =	933-0887	105K =	117-0988	487K =	117-1054	2M61 =	214-1595
5K36 =	117-0862	24K9 =	117-0926	110K =	933-0461	499K =	117-1055	2M7 =	214-1596
5K6 =	933-1352	26K1 =	117-0928	115K =	117-0991	510K =	933-1328	2M74 =	214-1597
5K62 =	117-0864	27K =	933-0933	120K =	933-0526	511K =	117-1056	2M87 =	214-1598
5K9 =	117-0866	27K4 =	117-0930	121K =	117-0993	536K =	117-1059	3M =	214-1599
6K04 =	117-0868	28K7 =	117-0932	127K =	117-0996	560K =	933-1379	3M01 =	214-1600
6K19 =	117-0869	30K =	933-0984	130K =	933-0577	562K =	117-1061	3M3 =	214-1601
6K2 =	933-1409	30K1 =	117-0935	133K =	117-0997	590K =	117-1063	3M32 =	214-1602
6K49 =	117-0871	31K6 =	117-0937	140K =	117-1000	619K =	117-1065	3M48 =	214-1603
6K8 =	933-1450	33K =	933-1034	147K =	117-1002	620K =	933-1425	3M6 =	214-1604
6K81 =	117-0873	33K2 =	117-0939	150K =	933-0623	649K =	117-1067	3M65 =	214-1605
7K15 =	117-0875	34K8 =	117-0941	154K =	117-1003	680K =	933-1476	3M83 =	214-1606
7K5 =	933-1514	36K =	933-1093	160K =	933-0682	681K =	117-1071	3M9 =	214-1608
7K87 =	117-0878	36K5 =	117-0943	162K =	214-1567	715K =	117-1073	4M02 =	214-1609
8K2 =	933-1565	38K3 =	117-0945	169K =	117-1007	750K =	933-1530	4M3 =	214-1610
8K25 =	117-0882	39K =	933-1158	178K =	214-1568	787K =	117-1076	4M42 =	214-1611
8K66 =	117-0884	40K2 =	117-0948	180K =	933-0739	820K =	933-1581	4M64 =	214-1612
9K09 =	117-0886	42K2 =	117-0950	187K =	117-1012	825K =	117-1078	4M7 =	214-1613
9K1 =	933-1611	43K =	933-1204	196K =	117-1014	866K =	117-1080	5M1 =	214-1614
9K53 =	117-0887	44K2 =	214-1564	200K =	933-0780	909K =	117-1083	5M11 =	214-1615
10K =	933-0399	46K4 =	117-0953	205K =	117-1015	910K =	933-1638	5M6 =	214-1616
10K5 =	117-0890	47K =	933-1255	215K =	117-1017	953K =	117-1085	5M62 =	214-1617
11K =	933-0453	47K5 =	214-1566	220K =	933-0836	1M =	933-0410	5M9 =	214-1618
11K5 =	117-0894	48K7 =	117-0954	226K =	117-1019	1M05 =	214-1569	6M2 =	214-1621
12K =	933-0518	49K9 =	117-0955	237K =	117-1022	1M1 =	214-1570	6M49 =	214-1622
12K1 =	117-0896	51K =	933-1310	240K =	933-0895	1M15 =	214-1571	6M8 =	214-1623
12K4 =	117-0897	51K1 =	117-0956	249K =	117-1024	1M2 =	214-1572	7M5 =	214-1624
12K7 =	117-0898	53K6 =	117-0959	261K =	117-1026	1M21 =	214-1573	8M2 =	214-1625
13K =	933-0569	56K =	933-1360	270K =	933-0941	1M27 =	214-1574	9M1 =	214-1626
13K3 =	117-0899	56K2 =	117-0962	274K =	117-1028	1M3 =	214-1575	9M53 =	214-1627
14K =	117-0901	59K =	117-0964	287K =	117-1029	1M33 =	214-1576	10M =	214-1628
14K7 =	117-0903								

	Order Code	Price Each 50+	250+	1K+	5K+	15K+
0603 Case Size	All values ● RL					

MC 0.125 Watt ±1% (0603 Case Size)

Stocked in the following OHMIC Values

10R =	157-6250	180R =	157-6267	3K3 =	157-6291	56K =	157-6307	820K =	157-6324
12R =	157-6251	220R =	157-6268	3K9 =	157-6292	68K =	157-6308	1M =	157-6325
15R =	157-6253	270R =	157-6269	4K7 =	157-6293	82K =	157-6309	1M2 =	157-6326
18R =	157-6254	330R =	157-6271	5K6 =	157-6294	100K =	157-6310	1M5 =	157-6327
22R =	157-6255	390R =	157-6272	6K8 =	157-6295	120K =	157-6311	1M8 =	157-6328
27R =	157-6256	470R =	157-6273	8K2 =	157-6296	150K =	157-6312	2M2 =	157-6329
33R =	157-6257	560R =	157-6275	10K =	157-6297	180K =	157-6313	2M7 =	157-6330
39R =	157-6258	680R =	157-6277	12K =	157-6298	220K =	157-6314	3M3 =	157-6332
47R =	157-6259	820R =	157-6280	15K =	157-6299	270K =	157-6315	3M9 =	157-6334
56R =	157-6260	1K =	157-6283	18K =	157-6300	330K =	157-6316	4M7 =	157-6336
68R =	157-6261	1K2 =	157-6284	22K =	157-6301	390K =	157-6317	5M6 =	157-6337
82R =	157-6262	1K5 =	157-6285	27K =	157-6302	470K =	157-6319	6M8 =	157-6338
100R =	157-6263	1K8 =	157-6286	33K =	157-6303	560K =	157-6322	8M2 =	157-6339
120R =	157-6265	2K2 =	157-6287	39K =	157-6304	680K =	157-6323	10M =	157-6340
150R =	157-6266	2K7 =	157-6289	47K =	157-6305				

Order Multiple=50

	Order Code	Price Each 50+	100+	250+	500+	1K+
0603 Case Size	All values ● RL					

MC 0.1 Watt ±1% (0805 Case Size)

Stocked in the following OHMIC Values

0R =	933-3681	3R16 =	214-1658	8R66 =	214-1688	24R9 =	214-1710	62R =	933-3452
1R =	214-1629	3R3 =	933-3096	9R1 =	214-1689	26R1 =	214-1712	64R9 =	214-1733
1R5 =	933-2642	3R32 =	214-1659	9R53 =	214-1690	27R =	933-2979	68R =	933-3509
1R1 =	214-1630	3R48 =	214-1660	10R =	933-2421	27R4 =	214-1713	68R1 =	214-1734
1R15 =	214-1631	3R6 =	214-1661	10R5 =	214-1691	28R7 =	214-1714	71R5 =	214-1736
1R2 =	214-1633	3R65 =	214-1662	11R =	933-2472	30R =	933-3029	75R =	933-3568
1R21 =	214-1634	3R83 =	214-1663	11R5 =	214-1692	30R1 =	214-1715	78R7 =	214-1737
1R27 =	214-1635	3R9 =	214-1664	12R =	933-2529	31R6 =	214-1716	82R =	933-3614
1R3 =	214-1636	4R22 =	214-1665	12R1 =	214-1694	33R =	933-3088	82R5 =	214-1738
1R33 =	214-1637	4R3 =	214-1666	12R7 =	214-1695	33R2 =	214-1717	86R6 =	214-1739
1R4 =	214-1638	4R42 =	214-1667	13R =	933-2588	34R8 =	214-1718	90R9 =	214-1740
1R5 =	933-2642	4R64 =	214-1669	13R3 =	214-1696	36R =	933-3142	91R =	933-3665
1R6 =	214-1639	4R7 =	933-3304	14R =	214-1697	36R5 =	214-1719	95R3 =	214-1741
1R62 =	214-1640	4R87 =	214-1671	14R7 =	214-1698	38R3 =	214-1720	100R =	933-2375
1R69 =	214-1641	5R1 =	214-1672	15R =	933-2634	39R =	933-3193	105R =	214-1742
1R8 =	214-1642	5R11 =	214-1673	15R4 =	214-1699	40R2 =	214-1721	110R =	933-2430
1R87 =	214-1643	5R36 =	214-1674	16R =	933-2693	42R2 =	214-1722	115R =	214-1743
1R96 =	214-1645	5R6 =	214-1675	16R2 =	214-1701	43R =	933-3240	120R =	933-2480
2R =	214-1646	5R62 =	214-1676	16R9 =	214-1702	44R2 =	214-1724	121R =	214-1744
2R15 =	214-1647	5R9 =	214-1677	17R8 =	214-1703	46R4 =	214-1725	127R =	214-1745
2R2 =	933-2855	6R19 =	214-1678	18R =	933-2740	47R =	933-3290	130R =	933-2545
2R26 =	214-1648	6R2 =	214-1679	18R7 =	214-1704	48R7 =	214-1726	133R =	214-1746
2R37 =	214-1649	6R49 =	214-1680	19R6 =	214-1705	49R9 =	214-1727	140R =	214-1748
2R4 =	214-1650	6R8 =	933-3517	20R =	933-2790	51R =	933-3355	147R =	214-1749
2R49 =	214-1651	6R81 =	214-1682	20R5 =	214-1706	51R1 =	214-1728	150R =	933-2596
2R61 =	214-1652	7R15 =	214-1683	21R5 =	214-1707	53R6 =	214-1729	154R =	214-1750
2R7 =	214-1653	7R5 =	214-1684	22R =	933-2847	56R =	933-3401	160R =	933-2650
2R74 =	214-1654	7R87 =	214-1685	22R6 =	214-1708	56R2 =	214-1730	162R =	214-1751
2R87 =	214-1655	8R2 =	214-1686	23R7 =	214-1709	59R =	214-1731	169R =	214-1752
3R =	214-1657	8R25 =	214-1687	24R =	933-2928	61R9 =	214-1732	178R =	214-1753

RoHS ● Compliant ▲ Non-compliant

180R =	933-2707	1K54 =	214-1801	12K1 =	214-1849	90K9 =	214-1897	715K =	214-1945		
187R =	214-1754	1K6 =	933-2669	12K4 =	214-1850	91K =	933-3649	750K =	933-3550		
196R =	214-1755	1K62 =	214-1803	12K7 =	214-1852	95K3 =	214-1898	787K =	214-1946		
200R =	933-2758	1K69 =	214-1804	13K =	933-2561	100K =	933-2405	820K =	933-3606		
205R =	214-1756	1K78 =	214-1805	13K3 =	214-1853	105K =	214-1900	825K =	214-1947		
215R =	214-1757	1K8 =	933-2715	14K =	214-1854	110K =	933-2464	866K =	214-1948		
220R =	933-2804	1K87 =	214-1806	14K7 =	214-1855	115K =	214-1901	909K =	214-1949		
226R =	214-1758	1K96 =	214-1807	15K =	933-2618	120K =	933-2510	910K =	933-3657		
237R =	214-1761	2K =	933-2766	15K4 =	214-1856	121K =	214-1902	953K =	214-1950		
240R =	933-2871	2K05 =	214-1808	16K =	933-2677	127K =	214-1903	1M =	933-2413		
249R =	214-1762	2K15 =	214-1809	16K2 =	214-1857	130K =	933-2570	1M05 =	214-1951		
261R =	214-1763	2K2 =	933-2812	16K9 =	214-1858	133K =	214-1904	1M1 =	214-1952		
270R =	933-2936	2K26 =	214-1810	17K8 =	214-1859	140K =	214-1906	1M15 =	214-1953		
274R =	214-1764	2K37 =	214-1811	18K =	933-2723	147K =	214-1907	1M2 =	214-1955		
287R =	214-1765	2K4 =	933-2880	18K7 =	214-1860	150K =	933-2626	1M21 =	214-1956		
300R =	933-2987	2K49 =	214-1812	19K6 =	214-1861	154K =	214-1908	1M3 =	214-1957		
301R =	214-1766	2K61 =	214-1813	20K =	933-2774	160K =	933-2685	1M33 =	214-1958		
316R =	214-1767	2K7 =	933-2944	20K5 =	214-1862	162K =	214-1909	1M4 =	214-1959		
330R =	933-3037	2K74 =	214-1815	21K5 =	214-1864	169K =	214-1910	1M47 =	214-1960		
332R =	214-1768	2K87 =	214-1816	22K =	933-2820	178K =	214-1911	1M5 =	214-1961		
348R =	214-1769	3K =	933-2995	22K6 =	214-1865	180K =	933-2731	1M6 =	214-1962		
360R =	933-3100	3K01 =	214-1817	23K7 =	214-1866	187K =	214-1912	1M62 =	214-1963		
365R =	214-1770	3K16 =	214-1818	24K =	933-2901	196K =	214-1913	1M69 =	214-1964		
383R =	214-1771	3K3 =	933-3045	24K9 =	214-1867	200K =	933-2782	1M78 =	214-1965		
390R =	933-3150	3K32 =	214-1819	26K1 =	214-1868	205K =	214-1914	1M8 =	214-1967		
402R =	214-1773	3K48 =	214-1820	27K =	933-2952	215K =	214-1915	1M87 =	214-1968		
422R =	214-1774	3K6 =	933-3118	27K4 =	214-1869	220K =	933-2839	1M96 =	214-1969		
430R =	933-3207	3K65 =	214-1821	28K7 =	214-1870	226K =	214-1916	2M =	214-1970		
442R =	214-1775	3K83 =	214-1822	30K =	933-3002	237K =	214-1918	2M05 =	214-1971		
464R =	214-1776	3K9 =	933-3169	30K1 =	214-1871	240K =	933-2910	2M2 =	214-1972		
470R =	933-3258	4K02 =	214-1823	31K6 =	214-1872	249K =	214-1919	2M37 =	214-1973		
475R =	214-1777	4K22 =	214-1824	33K =	933-3053	261K =	214-1920	2M4 =	214-1974		
487R =	214-1778	4K3 =	933-3215	33K2 =	214-1873	270K =	933-2960	2M49 =	214-1975		
510R =	933-3312	4K42 =	214-1825	34K8 =	214-1874	274K =	214-1921	2M61 =	214-1976		
511R =	214-1779	4K64 =	214-1827	36K =	933-3126	287K =	214-1922	2M7 =	214-1977		
536R =	214-1780	4K7 =	933-3266	36K5 =	214-1876	300K =	933-3010	2M74 =	214-1979		
560R =	933-3363	4K75 =	214-1828	38K3 =	214-1877	301K =	214-1923	3M =	214-1981		
562R =	214-1781	4K87 =	214-1829	39K =	933-3177	316K =	214-1924	3M01 =	214-1982		
590R =	214-1782	4K99 =	214-1830	40K2 =	214-1878	330K =	933-3070	3M16 =	214-1983		
619R =	214-1783	5K1 =	933-3320	42K2 =	214-1879	332K =	214-1925	3M3 =	214-1984		
620R =	933-3410	5K11 =	214-1831	43K =	933-3223	348K =	214-1926	3M32 =	214-1985		
649R =	214-1785	5K36 =	214-1832	44K2 =	214-1880	360K =	933-3134	3M48 =	214-1986		
680R =	933-3460	5K6 =	933-3371	46K4 =	214-1881	365K =	214-1927	3M6 =	214-1987		
681R =	214-1786	5K62 =	214-1833	47K =	933-3274	383K =	214-1928	3M65 =	214-1988		
715R =	214-1787	5K9 =	214-1834	47K5 =	214-1882	390K =	933-3185	3M83 =	214-1989		
750R =	933-3525	6K04 =	214-1835	48K7 =	214-1883	402K =	214-1931	3M9 =	214-1990		
787R =	214-1788	6K19 =	214-1836	49K9 =	214-1884	422K =	214-1932	4M02 =	214-1992		
820R =	933-3576	6K2 =	933-3428	51K =	933-3339	430K =	933-3231	4M3 =	214-1993		
825R =	214-1789	6K49 =	214-1837	51K1 =	214-1885	442K =	214-1933	4M42 =	214-1994		
866R =	214-1790	6K8 =	933-3479	53K6 =	214-1886	464K =	214-1934	4M64 =	214-1995		
909R =	214-1791	6K81 =	214-1839	56K =	933-3380	470K =	933-3282	4M7 =	214-1996		
910R =	933-3622	7K15 =	214-1841	56K2 =	214-1888	487K =	214-1935	5M1 =	214-1997		
953R =	214-1792	7K5 =	933-3533	59K =	214-1889	499K =	214-1936	5M11 =	214-1998		
1K =	933-2383	7K87 =	214-1842	61K9 =	214-1890	510K =	933-3347	5M6 =	214-1999		
1K05 =	214-1793	8K2 =	933-3584	62K =	933-3436	511K =	214-1937	5M9 =	214-2000		
1K1 =	933-2448	8K25 =	214-1843	64K9 =	214-1891	536K =	214-1938	6M2 =	214-2001		
1K15 =	214-1794	8K66 =	214-1844	68K =	933-3487	560K =	933-3398	6M49 =	214-2002		
1K2 =	933-2499	9K09 =	214-1845	68K1 =	214-1892	562K =	214-1939	6M8 =	214-2003		
1K21 =	214-1795	9K1 =	933-3630	71K5 =	214-1893	590K =	214-1940	6M81 =	214-2005		
1K27 =	214-1797	9K53 =	214-1846	75K =	933-3541	619K =	214-1941	7M5 =	214-2006		
1K3 =	933-2553	10K =	933-2391	78K7 =	214-1894	620K =	933-3444	8M2 =	214-2007		
1K33 =	214-1798	10K5 =	214-1847	82K =	933-3592	649K =	214-1943	9M09 =	214-2008		
1K4 =	214-1799	11K =	933-2456	82K5 =	214-1895	680K =	933-3495	9M1 =	214-2009		
1K47 =	214-1800	11K5 =	214-1848	86K6 =	214-1896	681K =	214-1944	10M =	214-2010		
1K5 =	933-2600	12K =	933-2502								

	Order Code	Price Each 50+	250+	1K+	5K+	15K+
0805 Case Size	All values ● RL					

MC 0.25 Watt ±1% (0805 Case Size)

Stocked in the following OHMIC Values

1R =	157-6432	180R =	157-6449	3K3 =	157-6466	56K =	157-6488	820K =	157-6506
12R =	157-6433	220R =	157-6450	3K9 =	157-6467	68K =	157-6491	1M =	157-6507
15R =	157-6435	270R =	157-6451	4K7 =	157-6468	82K =	157-6492	1M2 =	157-6508
18R =	157-6436	330R =	157-6452	5K6 =	157-6469	100K =	157-6493	1M5 =	157-6509
22R =	157-6437	390R =	157-6453	6K8 =	157-6470	120K =	157-6494	1M8 =	157-6510
27R =	157-6438	470R =	157-6454	8K2 =	157-6472	150K =	157-6496	2M2 =	157-6511
33R =	157-6439	560R =	157-6455	10K =	157-6473	180K =	157-6497	2M7 =	157-6512
39R =	157-6440	680R =	157-6456	12K =	157-6474	220K =	157-6498	3M3 =	157-6514
47R =	157-6441	820R =	157-6457	15K =	157-6475	270K =	157-6499	3M9 =	157-6515
56R =	157-6442	1K =	157-6459	18K =	157-6476	330K =	157-6500	4M7 =	157-6516
68R =	157-6443	1K2 =	157-6461	22K =	157-6477	390K =	157-6502	5M6 =	157-6517
82R =	157-6444	1K5 =	157-6462	27K =	157-6479	470K =	157-6503	6M8 =	157-6518
100R =	157-6445	1K8 =	157-6463	33K =	157-6481	560K =	157-6504	8M2 =	157-6519
120R =	157-6447	2K2 =	157-6464	39K =	157-6482	680K =	157-6505	10M =	157-6520
150R =	157-6448	2K7 =	157-6465	47K =	157-6486				

	Order Code	Price Each 50+	100+	250+	500+	1K+
0805 Case Size	All values ● RL					

0.125 Watt ±1% (1206 Case Size)

Stocked in the following OHMIC Values

0R =	933-6974	1R5 =	214-2023	2R26 =	214-2037	3R48 =	214-2050	5R6 =	214-2063
1R =	214-2011	1R54 =	214-2024	2R37 =	214-2038	3R6 =	214-2051	5R62 =	214-2064
1R5 =	214-2012	1R6 =	214-2025	2R4 =	214-2039	3R65 =	214-2052	5R9 =	214-2066
1R1 =	214-2013	1R62 =	214-2026	2R49 =	214-2040	3R9 =	214-2054	6R19 =	214-2067
1R15 =	214-2014	1R69 =	214-2027	2R61 =	214-2042	4R22 =	214-2055	6R2 =	214-2068
1R2 =	214-2015	1R78 =	214-2029	2R7 =	214-2043	4R3 =	214-2056	6R8 =	214-2069
1R21 =	214-2017	1R8 =	214-2031	2R74 =	214-2044	4R42 =	214-2057	6R81 =	214-2070
1R27 =	214-2018	1R87 =	214-2032	2R87 =	214-2045	4R64 =	214-2058	7R15 =	214-2071
1R3 =	214-2019	1R96 =	214-2033	3R =	214-2046	4R7 =	214-2059	7R5 =	214-2072
1R33 =	214-2020	2R =	214-2034	3R16 =	214-2047	5R1 =	214-2060	7R87 =	214-2073
1R4 =	214-2021	2R15 =	214-2035	3R3 =	214-2048	5R11 =	214-2061	8R2 =	214-2074
1R47 =	214-2022	2R2 =	214-2036	3R32 =	214-2049	5R36 =	214-2062	8R25 =	214-2075

8R66 =	214-2076	133R =	214-2138	1K96 =	214-2197	24K9 =	214-2256	360K =	933-6435
9R1 =	214-2078	140R =	214-2139	2K =	933-6117	26K1 =	214-2257	365K =	214-2316
9R53 =	214-2079	147R =	214-2140	2K05 =	214-2198	27K =	933-6273	383K =	214-2317
10R =	933-5790	150R =	933-5943	2K15 =	214-2199	27K4 =	214-2258	390K =	933-6494
10R5 =	214-2080	154R =	214-2141	2K2 =	933-6168	28K7 =	214-2261	402K =	214-2318
11R =	933-5846	160R =	933-5994	2K26 =	214-2201	30K =	933-6320	422K =	214-2319
11R5 =	214-2081	162R =	214-2142	2K37 =	214-2202	30K1 =	214-2262	430K =	933-6540
12R =	933-5897	169R =	214-2143	2K4 =	933-6214	31K6 =	214-2263	442K =	214-2320
12R1 =	214-2082	178R =	214-2145	2K49 =	214-2203	33K =	933-6370	464K =	214-2321
12R7 =	214-2083	180R =	933-6052	2K61 =	214-2204	33K2 =	214-2264	470K =	933-6591
13R =	214-2084	187R =	214-2146	2K7 =	933-6265	34K8 =	214-2265	487K =	214-2322
13R3 =	214-2085	196R =	214-2147	2K74 =	214-2205	36K =	933-6427	499K =	214-2323
14R =	214-2086	200R =	933-6109	2K87 =	214-2206	36K5 =	214-2266	510K =	933-6648
14R7 =	214-2087	205R =	214-2148	3K =	933-6311	38K3 =	214-2267	511K =	214-2324
15R =	933-5986	215R =	214-2149	3K01 =	214-2207	39K =	933-6486	536K =	214-2325
15R4 =	214-2088	220R =	933-6150	3K16 =	214-2208	40K2 =	214-2268	560K =	933-6699
16R =	933-6044	226R =	214-2150	3K3 =	933-6362	42K2 =	214-2269	562K =	214-2327
16R2 =	214-2091	237R =	214-2151	3K32 =	214-2209	43K =	933-6532	590K =	214-2328
16R9 =	214-2092	240R =	933-6206	3K48 =	214-2210	44K2 =	214-2270	619K =	214-2329
17R8 =	214-2093	249R =	214-2152	3K6 =	933-6419	46K4 =	214-2271	620K =	933-6745
18R =	933-6095	261R =	214-2153	3K65 =	214-2212	47K =	933-6583	649K =	214-2330
18R7 =	214-2094	270R =	933-6257	3K83 =	214-2213	47K5 =	214-2273	680K =	933-6796
19R6 =	214-2095	274R =	214-2154	3K9 =	933-6478	48K7 =	214-2274	681K =	214-2331
20R =	933-6141	287R =	214-2155	4K02 =	214-2214	49K9 =	214-2275	715K =	214-2332
20R5 =	214-2096	300R =	933-6303	4K22 =	214-2215	51K =	933-6630	750K =	933-6842
21R5 =	214-2097	301R =	214-2157	4K3 =	933-6524	51K1 =	214-2276	787K =	214-2333
22R =	933-6192	316R =	214-2158	4K42 =	214-2216	53K6 =	214-2277	820K =	933-6893
22R6 =	214-2098	330R =	933-6354	4K64 =	214-2217	56K =	933-6680	825K =	214-2334
23R7 =	214-2099	332R =	214-2159	4K7 =	933-6575	56K2 =	214-2278	866K =	214-2335
24R =	933-6249	348R =	214-2160	4K75 =	214-2218	59K =	214-2279	909K =	214-2336
24R9 =	214-2100	360R =	933-6400	4K87 =	214-2219	61K9 =	214-2280	910K =	933-6940
26R1 =	214-2101	365R =	214-2161	4K99 =	214-2220	62K =	933-6737	953K =	214-2337
27R =	933-6290	383R =	214-2162	5K1 =	933-6621	64K9 =	214-2281	1M =	933-5781
27R4 =	214-2102	390R =	933-6460	5K11 =	214-2221	68K =	933-6788	1M1 =	214-2339
28R7 =	214-2103	402R =	214-2163	5K36 =	214-2222	68K1 =	214-2282	1M15 =	214-2341
30R =	933-6346	422R =	214-2164	5K6 =	933-6672	71K5 =	214-2283	1M2 =	214-2342
30R1 =	214-2104	430R =	933-6516	5K62 =	214-2224	75K =	933-6834	1M21 =	214-2343
31R6 =	214-2105	442R =	214-2165	5K9 =	214-2225	78K7 =	214-2285	1M3 =	214-2344
33R =	933-6397	464R =	214-2166	6K04 =	214-2226	82K =	933-6885	1M4 =	214-2345
33R2 =	214-2106	470R =	933-6567	6K19 =	214-2227	82K5 =	214-2286	1M47 =	214-2346
34R8 =	214-2108	475R =	214-2167	6K2 =	933-6729	86K6 =	214-2287	1M5 =	214-2347
36R =	933-6451	487R =	214-2169	6K49 =	214-2228	90K9 =	214-2288	1M6 =	214-2348
36R5 =	214-2109	510R =	933-6613	6K8 =	933-6770	91K =	933-6931	1M62 =	214-2349
38R3 =	214-2110	510R =	933-6613	6K81 =	214-2229	95K3 =	214-2289	1M69 =	214-2350
39R =	933-6508	536R =	214-2171	7K15 =	214-2230	100K =	933-5773	1M78 =	214-2352
40R2 =	214-2111	560R =	933-6664	7K5 =	933-6826	105K =	214-2290	1M8 =	214-2353
42R2 =	214-2112	562R =	214-2172	7K87 =	214-2231	110K =	933-5838	2M =	214-2354
43R =	214-2113	590R =	214-2173	8K2 =	933-6877	115K =	214-2291	2M2 =	214-2355
44R2 =	214-2114	619R =	214-2174	8K25 =	214-2232	120K =	933-5889	2M26 =	214-2356
46R4 =	214-2115	620R =	933-6710	8K66 =	214-2233	121K =	214-2292	2M4 =	214-2357
47R =	933-6605	649R =	214-2175	9K09 =	214-2234	127K =	214-2293	2M61 =	214-2358
48R7 =	214-2116	680R =	933-6761	9K1 =	933-6923	130K =	933-5935	2M7 =	214-2359
49R9 =	214-2117	681R =	214-2176	9K53 =	214-2236	133K =	214-2294	2M74 =	214-2360
51R =	933-6656	715R =	214-2177	10K =	933-5765	140K =	214-2295	2M87 =	214-2361
51R1 =	214-2118	750R =	933-6818	10K5 =	214-2237	147K =	214-2297	3M =	214-2362
53R6 =	214-2121	787R =	214-2178	11K =	933-5820	150K =	933-5978	3M01 =	214-2364
56R =	933-6702	820R =	933-6869	11K5 =	214-2238	160K =	933-6036	3M16 =	214-2365
56R2 =	214-2122	825R =	214-2179	12K =	933-5870	162K =	214-2298	3M3 =	214-2366
59R =	214-2123	866R =	214-2180	12K1 =	214-2239	169K =	214-2299	3M32 =	214-2367
61R9 =	214-2124	909R =	214-2182	12K4 =	214-2240	178K =	214-2300	3M48 =	214-2368
62R =	933-6753	910R =	933-6915	12K7 =	214-2241	180K =	933-6087	3M6 =	214-2369
64R9 =	214-2125	953R =	214-2183	13K =	933-5927	187K =	214-2301	3M65 =	214-2370
68R =	933-6800	1K =	933-5757	13K3 =	214-2242	200K =	933-6133	3M83 =	214-2371
68R1 =	214-2126	1K05 =	214-2184	14K =	214-2243	205K =	214-2303	3M9 =	214-2372
71R5 =	214-2127	1K1 =	933-5811	14K7 =	214-2244	215K =	214-2304	4M02 =	214-2373
75R =	933-6850	1K15 =	214-2185	15K =	933-5960	220K =	933-6184	4M3 =	214-2374
78R7 =	214-2128	1K2 =	933-5862	15K4 =	214-2245	226K =	214-2305	4M7 =	214-2376
82R =	933-6907	1K21 =	214-2186	16K =	933-6028	237K =	214-2306	4M87 =	214-2377
82R5 =	214-2129	1K27 =	214-2187	16K2 =	214-2246	240K =	933-6230	5M1 =	214-2378
86R6 =	214-2130	1K3 =	933-5919	16K9 =	214-2248	249K =	214-2307	5M11 =	214-2379
90R9 =	214-2131	1K33 =	214-2188	17K8 =	214-2249	261K =	214-2308	5M36 =	214-2380
91R =	933-6958	1K4 =	214-2189	18K =	933-6079	270K =	933-6281	5M6 =	214-2381
95R3 =	214-2133	1K47 =	214-2190	18K7 =	214-2250	274K =	214-2309	6M19 =	214-2382
100R =	933-5749	1K5 =	933-5951	19K6 =	214-2251	287K =	214-2310	6M2 =	214-2383
105R =	214-2134	1K54 =	214-2191	20K =	933-6125	300K =	933-6338	6M8 =	214-2384
110R =	933-5803	1K6 =	933-6001	20K5 =	214-2252	301K =	214-2311	6M81 =	214-2385
115R =	214-2135	1K62 =	214-2192	21K5 =	214-2253	316K =	214-2312	7M5 =	214-2386
120R =	933-5854	1K69 =	214-2194	22K =	933-6176	330K =	933-6389	8M2 =	214-2388
121R =	214-2136	1K78 =	214-2195	22K6 =	214-2254	332K =	214-2313	9M1 =	214-2389
127R =	214-2137	1K8 =	933-6060	23K7 =	214-2255	348K =	214-2315	10M =	214-2390
130R =	933-5900	1K87 =	214-2196	24K =	933-6222				

	Order Code	Price Each 50+	250+	1K+	5K+	15K+
1206 Case Size	All values ● RL					

MC 0.25 Watt ±1% (1206 Case Size)

Stocked in the following OHMIC Values

1R =	157-6602	180R =	157-6619	3K3 =	157-6636	56K =	157-6652	820K =	157-6678
12R =	157-6603	220R =	157-6620	3K9 =	157-6637	68K =	157-6654	1M =	157-6679
15R =	157-6605	270R =	157-6621	4K7 =	157-6638	82K =	157-6655	1M2 =	157-6680
18R =	157-6606	330R =	157-6622	5K6 =	157-6639	100K =	157-6656	1M5 =	157-6682
22R =	157-6607	390R =	157-6623	6K8 =	157-6640	120K =	157-6657	1M8 =	157-6683
27R =	157-6608	470R =	157-6624	8K2 =	157-6642	150K =	157-6658	2M2 =	157-6684
33R =	157-6609	560R =	157-6625	10K =	157-6643	180K =	157-6659	2M7 =	157-6685
39R =	157-6610	680R =	157-6626	12K =	157-6644	220K =	157-6662	3M3 =	157-6686
47R =	157-6611	820R =	157-6627	15K =	157-6645	270K =	157-6666	3M9 =	157-6687
56R =	157-6612	1K =	157-6629	18K =	157-6646	330K =	157-6668	4M7 =	157-6688
68R =	157-6613	1K2 =	157-6631	22K =	157-6647	390K =	157-6669	5M6 =	157-6691
82R =	157-6614	1K5 =	157-6632	27K =	157-6648	470K =	157-6672	6M8 =	157-6692
100R =	157-6615	1K8 =	157-6633	33K =	157-6649	560K =	157-6674	8M2 =	157-6693
120R =	157-6617	2K2 =	157-6634	39K =	157-6650	680K =	157-6676	10M =	157-6694
150R =	157-6618	2K7 =	157-6635	47K =	157-6651				

Surface Mount - ±1% - continued

207266

	Order Code	Price Each 50+	100+	250+	500+	1K+
1206 Case Size	All values ● RL					

Surface Mount - ±1% Full Reels

Operating temperature -55°C to + 125°C

Case Size	Maximum Working Voltage (V)
0201	25
0402	50
0603	50
0805	150
1206	200

0.05 Watt ±1% (0201 Case Size)

Stocked in the following OHMIC Values

1R =	212-9953	27R =	212-9994	680R =	213-0036	18K =	213-0076	470K =	213-0113
1R1 =	212-9955	30R =	212-9995	750R =	213-0037	20K =	213-0077	510K =	213-0114
1R2 =	212-9956	33R =	212-9997	820R =	213-0039	22K =	213-0078	560K =	213-0115
1R3 =	212-9957	36R =	212-9998	910R =	213-0041	24K =	213-0079	620K =	213-0116
1R5 =	212-9958	39R =	212-9999	1K =	213-0042	27K =	213-0080	680K =	213-0118
1R6 =	212-9959	43R =	213-0001	1K1 =	213-0043	30K =	213-0081	750K =	213-0119
1R8 =	212-9960	47R =	213-0003	1K2 =	213-0044	33K =	213-0082	820K =	213-0120
2R =	212-9961	51R =	213-0005	1K3 =	213-0045	36K =	213-0083	910K =	213-0121
2R2 =	212-9962	56R =	213-0007	1K5 =	213-0046	39K =	213-0084	1M =	213-0122
2R4 =	212-9963	62R =	213-0008	1K6 =	213-0047	43K =	213-0085	1M1 =	213-0123
2R7 =	212-9964	68R =	213-0009	1K8 =	213-0048	47K =	213-0086	1M2 =	213-0124
3R =	212-9965	75R =	213-0010	2K =	213-0049	51K =	213-0088	1M3 =	213-0125
3R3 =	212-9967	82R =	213-0012	2K2 =	213-0050	56K =	213-0089	1M5 =	213-0126
3R6 =	212-9968	91R =	213-0013	2K2 =	213-0052	62K =	213-0090	1M6 =	213-0127
3R9 =	212-9969	100R =	213-0015	2K7 =	213-0053	68K =	213-0091	1M8 =	213-0128
4R3 =	212-9970	110R =	213-0016	3K =	213-0055	75K =	213-0092	2M =	213-0131
4R7 =	212-9971	120R =	213-0017	3K3 =	213-0056	82K =	213-0093	2M2 =	213-0132
5R1 =	212-9972	130R =	213-0018	3K6 =	213-0057	91K =	213-0094	2M2 =	213-0133
5R6 =	212-9973	150R =	213-0019	3K9 =	213-0058	100K =	213-0095	2M7 =	213-0134
6R2 =	212-9974	160R =	213-0020	4K3 =	213-0059	110K =	213-0096	3M =	213-0135
6R8 =	212-9975	180R =	213-0021	4K7 =	213-0060	120K =	213-0097	3M3 =	213-0136
7R5 =	212-9976	200R =	213-0022	5K1 =	213-0061	130K =	213-0098	3M6 =	213-0137
8R2 =	212-9977	220R =	213-0023	5K6 =	213-0062	150K =	213-0100	3M9 =	213-0138
9R1 =	212-9979	240R =	213-0024	6K2 =	213-0064	160K =	213-0101	4M3 =	213-0139
10R =	212-9981	270R =	213-0025	6K8 =	213-0065	180K =	213-0102	4M7 =	213-0140
11R =	212-9982	300R =	213-0027	7K5 =	213-0066	200K =	213-0103	5M1 =	213-0141
12R =	212-9983	330R =	213-0028	8K2 =	213-0067	220K =	213-0104	5M6 =	213-0143
13R =	212-9984	360R =	213-0029	9K1 =	213-0068	240K =	213-0106	6M2 =	213-0144
15R =	212-9985	390R =	213-0030	10K =	213-0069	270K =	213-0107	6M8 =	213-0145
16R =	212-9986	430R =	213-0031	11K =	213-0070	300K =	213-0108	7M5 =	213-0146
18R =	212-9987	470R =	213-0032	12K =	213-0071	330K =	213-0109	8M2 =	213-0147
20R =	212-9988	510R =	213-0033	13K =	213-0072	360K =	213-0110	9M1 =	213-0148
22R =	212-9989	560R =	213-0034	15K =	213-0073	390K =	213-0111	10M =	213-0149
24R =	212-9990	620R =	213-0035	16K =	213-0074	430K =	213-0112		

	Order Code	Price Each 15K+	+	+	+	+
0201 Case Size	0R TO 9R1					
0201 Case Size	10R TO 1M					
0201 Case Size	1M1 TO 10M					

0.0625 Watt ±1% (0402 Case Size)

Stocked in the following OHMIC Values

1R =	213-0150	12R =	213-0195	42R2 =	213-0240	154R =	213-0285	511R =	213-0330
1R1 =	213-0151	12R1 =	213-0196	43R =	213-0241	160R =	213-0286	536R =	213-0331
1R2 =	213-0152	12R7 =	213-0197	44R2 =	213-0242	162R =	213-0287	560R =	213-0332
1R3 =	213-0153	13R =	213-0198	46R4 =	213-0243	169R =	213-0288	562R =	213-0333
1R5 =	213-0155	13R3 =	213-0199	47R =	213-0244	178R =	213-0289	590R =	213-0334
1R54 =	213-0156	14R =	213-0200	48R7 =	213-0246	180R =	213-0290	619R =	213-0335
1R6 =	213-0157	14R7 =	213-0201	49R9 =	213-0247	187R =	213-0291	620R =	213-0337
1R8 =	213-0158	15R =	213-0202	51R =	213-0248	196R =	213-0292	649R =	213-0338
2R =	213-0159	15R4 =	213-0203	51R1 =	213-0249	200R =	213-0293	680R =	213-0339
2R2 =	213-0160	16R =	213-0204	53R6 =	213-0250	205R =	213-0295	681R =	213-0340
2R4 =	213-0161	16R2 =	213-0205	56R =	213-0251	215R =	213-0296	715R =	213-0341
2R49 =	213-0162	16R9 =	213-0206	56R2 =	213-0252	220R =	213-0297	750R =	213-0342
2R61 =	213-0163	17R8 =	213-0207	59R =	213-0253	226R =	213-0298	787R =	213-0343
2R7 =	213-0164	18R =	213-0209	61R9 =	213-0254	237R =	213-0299	820R =	213-0344
2R74 =	213-0165	18R7 =	213-0211	62R =	213-0255	240R =	213-0301	825R =	213-0345
3R =	213-0167	19R6 =	213-0212	64R9 =	213-0256	249R =	213-0302	866R =	213-0346
3R16 =	213-0168	20R =	213-0213	68R =	213-0258	261R =	213-0303	909R =	213-0347
3R3 =	213-0169	20R5 =	213-0214	68R1 =	213-0259	270R =	213-0304	910R =	213-0349
3R32 =	213-0170	21R5 =	213-0215	71R5 =	213-0260	274R =	213-0305	953R =	213-0352
3R6 =	213-0171	22R =	213-0217	75R =	213-0261	287R =	213-0306	1K =	213-0354
3R83 =	213-0172	22R6 =	213-0218	78R7 =	213-0262	300R =	213-0307	1K05 =	213-0355
3R9 =	213-0173	23R7 =	213-0219	82R =	213-0263	301R =	213-0308	1K1 =	213-0356
4R22 =	213-0174	24R =	213-0220	82R5 =	213-0264	316R =	213-0309	1K15 =	213-0357
4R3 =	213-0175	24R9 =	213-0222	86R6 =	213-0265	330R =	213-0310	1K2 =	213-0358
4R7 =	213-0176	26R1 =	213-0223	90R9 =	213-0266	332R =	213-0311	1K21 =	213-0359
5R1 =	213-0177	27R =	213-0224	91R =	213-0267	348R =	213-0314	1K27 =	213-0360
5R11 =	213-0179	27R4 =	213-0225	95R3 =	213-0268	360R =	213-0315	1K3 =	213-0362
5R36 =	213-0181	28R7 =	213-0226	100R =	213-0271	365R =	213-0316	1K33 =	213-0363
5R6 =	213-0182	30R =	213-0227	105R =	213-0272	383R =	213-0317	1K4 =	213-0364
5R62 =	213-0183	30R1 =	213-0228	110R =	213-0273	390R =	213-0319	1K47 =	213-0365
6R2 =	213-0185	31R6 =	213-0229	115R =	213-0274	402R =	213-0320	1K5 =	213-0366
6R8 =	213-0186	33R =	213-0230	120R =	213-0275	422R =	213-0321	1K54 =	213-0367
7R5 =	213-0187	33R2 =	213-0231	121R =	213-0276	430R =	213-0322	1K6 =	213-0368
8R2 =	213-0188	34R8 =	213-0232	127R =	213-0277	442R =	213-0323	1K62 =	213-0369
9R1 =	213-0189	36R =	213-0234	130R =	213-0279	464R =	213-0325	1K69 =	213-0370
10R =	213-0190	36R5 =	213-0235	133R =	213-0280	470R =	213-0326	1K78 =	213-0371
10R5 =	213-0192	38R3 =	213-0236	140R =	213-0281	475R =	213-0327	1K8 =	213-0372
11R =	213-0193	39R =	213-0238	147R =	213-0283	487R =	213-0328	1K87 =	213-0374
11R5 =	213-0194	40R2 =	213-0239	150R =	213-0284	510R =	213-0329	1K96 =	213-0375
2K =	213-0376	8K25 =	213-0428	38K3 =	213-0480	169K =	213-0532	715K =	213-0583
2K05 =	213-0377	8K66 =	213-0429	39K =	213-0481	178K =	213-0533	750K =	213-0584
2K15 =	213-0378	9K09 =	213-0430	40K2 =	213-0482	180K =	213-0534	787K =	213-0585
2K2 =	213-0379	9K1 =	213-0431	42K2 =	213-0483	187K =	213-0535	820K =	213-0586
2K26 =	213-0380	9K53 =	213-0432	43K =	213-0484	196K =	213-0536	825K =	213-0587
2K37 =	213-0381	10K =	213-0433	44K2 =	213-0485	200K =	213-0537	866K =	213-0588
2K4 =	213-0382	10K5 =	213-0434	46K4 =	213-0486	205K =	213-0538	909K =	213-0589
2K49 =	213-0383	11K =	213-0435	47K =	213-0487	215K =	213-0539	910K =	213-0590
2K61 =	213-0384	11K5 =	213-0436	47K5 =	213-0489	220K =	213-0540	953K =	213-0591
2K7 =	213-0386	12K =	213-0437	48K7 =	213-0491	226K =	213-0541	1M =	213-0593
2K74 =	213-0387	12K1 =	213-0438	49K9 =	213-0492	237K =	213-0542	1M05 =	213-0594
2K87 =	213-0388	12K4 =	213-0441	51K =	213-0493	240K =	213-0544	1M1 =	213-0595
3K =	213-0389	12K7 =	213-0442	51K1 =	213-0494	249K =	213-0545	1M2 =	213-0596
3K01 =	213-0390	13K =	213-0443	53K6 =	213-0495	261K =	213-0546	1M21 =	213-0597
3K16 =	213-0391	13K3 =	213-0444	56K =	213-0496	270K =	213-0547	1M27 =	213-0598
3K3 =	213-0392	14K =	213-0445	56K2 =	213-0497	274K =	213-0548	1M3 =	213-0599
3K32 =	213-0393	14K7 =	213-0446	59K =	213-0498	287K =	213-0549	1M4 =	213-0600
3K48 =	213-0394	15K =	213-0447	61K9 =	213-0499	300K =	213-0550	1M47 =	213-0601
3K6 =	213-0395	15K4 =	213-0448	62K =	213-0500	301K =	213-0551	1M5 =	213-0602
3K65 =	213-0396	16K =	213-0449	64K9 =	213-0501	316K =	213-0552	1M6 =	213-0603
3K83 =	213-0398	16K2 =	213-0450	68K =	213-0502	330K =	213-0553	1M69 =	213-0604
3K9 =	213-0399	16K9 =	213-0451	68K1 =	213-0503	332K =	213-0554	1M8 =	213-0605
4K02 =	213-0400	17K8 =	213-0453	71K5 =	213-0504	348K =	213-0556	2M =	213-0606
4K22 =	213-0401	18K =	213-0454	75K =	213-0505	360K =	213-0557	2M2 =	213-0607
4K3 =	213-0402	18K7 =	213-0455	78K7 =	213-0507	365K =	213-0558	2M4 =	213-0608
4K42 =	213-0404	19K6 =	213-0456	82K =	213-0508	383K =	213-0559	2M7 =	213-0611
4K64 =	213-0405	20K =	213-0457	82K5 =	213-0509	390K =	213-0560	2M87 =	213-0612
4K7 =	213-0406	20K5 =	213-0458	86K6 =	213-0510	402K =	213-0561	3M =	213-0613
4K75 =	213-0407	21K5 =	213-0459	90K9 =	213-0511	422K =	213-0562	3M01 =	213-0614
4K87 =	213-0408	22K =	213-0460	91K =	213-0512	430K =	213-0563	3M3 =	213-0615
4K99 =	213-0409	22K6 =	213-0461	95K3 =	213-0513	442K =	213-0564	3M32 =	213-0616
5K1 =	213-0410	23K7 =	213-0462	100K =	213-0514	464K =	213-0565	3M6 =	213-0617
5K11 =	213-0411	24K =	213-0463	105K =	213-0515	470K =	213-0566	3M9 =	213-0618
5K36 =	213-0412	24K9 =	213-0466	110K =	213-0516	487K =	213-0568	4M02 =	213-0620
5K6 =	213-0413	26K1 =	213-0467	115K =	213-0517	499K =	213-0569	4M3 =	213-0623
5K62 =	213-0414	27K =	213-0468	120K =	213-0519	510K =	213-0570	4M7 =	213-0624
5K9 =	213-0416	27K4 =	213-0469	121K =	213-0521	511K =	213-0571	4M87 =	213-0625
6K04 =	213-0417	28K7 =	213-0470	127K =	213-0522	536K =	213-0572	5M1 =	213-0626
6K19 =	213-0418	30K =	213-0471	127K =	213-0522	560K =	213-0573	5M36 =	213-0627
6K2 =	213-0419	30K1 =	213-0472	133K =	213-0524	562K =	213-0574	5M6 =	213-0628
6K49 =	213-0420	31K6 =	213-0473	140K =	213-0525	590K =	213-0575	6M2 =	213-0629
6K8 =	213-0421	33K =	213-0474	147K =	213-0526	619K =	213-0576	6M8 =	213-0630
6K81 =	213-0422	33K2 =	213-0475	150K =	213-0527	620K =	213-0577	7M5 =	213-0631
7K15 =	213-0423	34K8 =	213-0477	154K =	213-0528	649K =	213-0578	8M2 =	213-0632
7K5 =	213-0424	36K =	213-0478	160K =	213-0529	680K =	213-0581	9M1 =	213-0633
7K87 =	213-0425	36K5 =	213-0479	162K =	213-0530	681K =	213-0582	10M =	213-0635
8K2 =	213-0426								

	Order Code	Price Each 10K+	+	+	+	+
0402 Case Size	0R TO 9R1					
0402 Case Size	10R TO 1M					
0402 Case Size	1M05 TO 10M					

0.063 Watt ±1% (0603 Case Size)

Stocked in the following OHMIC Values

1R =	213-0636	7R15 =	213-0691	44R2 =	213-0747	240R =	213-0805	1K3 =	213-0863
1R5 =	213-0647	7R5 =	213-0692	46R4 =	213-0748	249R =	213-0806	1K33 =	213-0864
1R1 =	213-0637	7R87 =	213-0693	47R =	213-0751	261R =	213-0807	1K4 =	213-0866
1R15 =	213-0638	8R2 =	213-0694	48R7 =	213-0752	270R =	213-0808	1K47 =	213-0868
1R2 =	213-0639	8R25 =	213-0696	49R9 =	213-0753	274R =	213-0809	1K5 =	213-0869
1R21 =	213-0640	8R66 =	213-0697	51R =	213-0754	287R =	213-0810	1K54 =	213-0872
1R27 =	213-0641	9R1 =	213-0698	51R1 =	213-0755	300R =	213-0811	1K6 =	213-0873
1R3 =	213-0642	9R53 =	213-0699	53R6 =	213-0756	301R =	213-0812	1K62 =	213-0874
1R33 =	213-0643	10R =	213-0700	56R =	213-0757	316R =	213-0813	1K69 =	213-0875
1R4 =	213-0644	10R5 =	213-0702	56R2 =	213-0758	330R =	213-0815	1K78 =	213-0876
1R47 =	213-0645	11R =	213-0703	59R =	213-0759	332R =	213-0817	1K8 =	213-0878
1R5 =	213-0647	11R5 =	213-0704	61R9 =	213-0760	348R =	213-0818	1K87 =	213-0879
1R54 =	213-0648	12R =	213-0705	62R =	213-0761	360R =	213-0819	1K96 =	213-0880
1R6 =	213-0649	12R1 =	213-0706	64R9 =	213-0763	365R =	213-0820	2K =	213-0881
1R62 =	213-0650	13R =	213-0707	68R =	213-0764	383R =	213-0821	2K05 =	213-0882
1R78 =	213-0651	14R =	213-0708	68R1 =	213-0765	390R =	213-0822	2K15 =	213-0883
1R8 =	213-0652	14R7 =	213-0709	71R5 =	213-0766	402R =	213-0823	2K2 =	213-0884
1R87 =	213-0653	15R =	213-0710	75R =	213-0767	422R =	213-0824	2K26 =	213-0885
1R96 =	213-0654	15R4 =	213-0711	78R7 =	213-0768	430R =	213-0825	2K37 =	213-0886
2R =	213-0655	16R =	213-0712	82R =	213-0769	442R =	213-0826	2K4 =	213-0887
2R2 =	213-0656	16R2 =	213-0714	82R5 =	213-0770	464R =	213-0827	2K49 =	213-0888
2R4 =	213-0657	16R9 =	213-0715	86R6 =	213-0771	470R =	213-0829	2K61 =	213-0891
2R49 =	213-0659	17R8 =	213-0716	90R9 =	213-0772	475R =	213-0831	2K7 =	213-0892
2R7 =	213-0661	18R =	213-0717	91R =	213-0773	487R =	213-0832	2K74 =	213-0893
2R74 =	213-0662	18R7 =	213-0718	95R3 =	213-0775	510R =	213-0833	2K87 =	213-0894
2R87 =	213-0663	19R6 =	213-0719	100R =	213-0776	511R =	213-0834	3K =	213-0895
3R =	213-0664	20R =	213-0720	105R =	213-0777	536R =	213-0835	3K01 =	213-0896
3R16 =	213-0665	20R5 =	213-0721	110R =	213-0778	560R =	213-0836	3K16 =	213-0897
3R3 =	213-0666	21R5 =	213-0722	115R =	213-0779	562R =	213-0837	3K3 =	213-0898
3R32 =	213-0667	22R =	213-0723	120R =	213-0780	590R =	213-0838	3K32 =	213-0899
3R48 =	213-0668	22R6 =	213-0724	121R =	213-0781	619R =	213-0839	3K48 =	213-0900
3R6 =	213-0669	23R7 =	213-0726	127R =	213-0782	620R =	213-0840	3K6 =	213-0901
3R65 =	213-0670	24R =	213-0727	130R =	213-0783	649R =	213-0842	3K65 =	213-0902
3R83 =	213-0672	24R9 =	213-0728	133R =	213-0784	680R =	213-0843	3K83 =	213-0903
3R9 =	213-0673	26R1 =	213-0729	140R =	213-0785	680R =	213-0843	3K9 =	213-0904
4R22 =	213-0674	27R =	213-0730	147R =	213-0787	715R =	213-0845	4K02 =	213-0905
4R3 =	213-0675	27R4 =	213-0731	150R =	213-0788	750R =	213-0846	4K22 =	213-0906
4R42 =	213-0676	28R7 =	213-0732	154R =	213-0789	787R =	213-0847	4K3 =	213-0908
4R64 =	213-0677	30R =	213-0733	160R =	213-0790	820R =	213-0848	4K42 =	213-0909
4R7 =	213-0678	30R1 =	213-0734	162R =	213-0791	825R =	213-0849	4K64 =	213-0910
4R87 =	213-0679	31R6 =	213-0735	169R =	213-0792	866R =	213-0850	4K7 =	213-0911
5R1 =	213-0680	33R =	213-0736	178R =	213-0793	909R =	213-0851	4K75 =	213-0912
5R11 =	213-0681	33R2 =	213-0738	180R =	213-0794	910R =	213-0852	4K87 =	213-0913
5R6 =	213-0682	34R8 =	213-0739	187R =	213-0795	953R =	213-0854	4K99 =	213-0914
5R62 =	213-0684	36R =	213-0740	196R =	213-0796	1K =	213-0855	5K1 =	213-0915
5R9 =	213-0685	36R5 =	213-0741	200R =	213-0797	1K05 =	213-0856	5K11 =	213-0916
6R19 =	213-0686	38R3 =	213-0742	205R =	213-0799	1K1 =	213-0857	5K36 =	213-0917
6R2 =	213-0687	39R =	213-0743	215R =	213-0800	1K15 =	213-0859	5K6 =	213-0918
6R49 =	213-0688	40R2 =	213-0744	220R =	213-0801	1K2 =	213-0860	5K62 =	213-0921
6R8 =	213-0689	42R2 =	213-0745	226R =	213-0802	1K21 =	213-0861	5K9 =	213-0922
6R81 =	213-0690	43R =	213-0746	237R =	213-0803	1K27 =	213-0862	6K04 =	213-0923

RoHS ● Compliant ▲ Non-compliant

6K19 =	213-0924	24K9 =	213-0971	91K =	213-1016	390K =	213-1064	1M62 =	212-8840		
6K2 =	213-0925	26K1 =	213-0972	95K3 =	213-1017	402K =	213-1065	1M69 =	212-8841		
6K49 =	213-0926	27K =	213-0973	100K =	213-1019	422K =	213-1066	1M78 =	212-8842		
6K8 =	213-0927	27K4 =	213-0974	105K =	213-1021	430K =	213-1068	1M8 =	212-8843		
6K81 =	213-0928	28K7 =	213-0975	110K =	213-1022	442K =	213-1069	1M87 =	212-8844		
7K15 =	213-0929	30K =	213-0976	115K =	213-1023	464K =	213-1070	2M =	212-8845		
7K5 =	213-0930	30K1 =	213-0977	120K =	213-1024	470K =	213-1071	2M2 =	212-8847		
7K87 =	213-0931	31K6 =	213-0978	121K =	213-1025	487K =	213-1072	2M26 =	212-8848		
8K2 =	213-0933	33K =	213-0979	127K =	213-1026	499K =	213-1073	2M37 =	212-8849		
8K25 =	213-0934	33K2 =	213-0980	130K =	213-1027	510K =	213-1074	2M4 =	212-8850		
8K66 =	213-0935	34K8 =	213-0982	133K =	213-1028	511K =	213-1075	2M49 =	212-8851		
9K09 =	213-0936	36K =	213-0983	140K =	213-1029	536K =	213-1076	2M61 =	212-8852		
9K1 =	213-0937	36K5 =	213-0984	147K =	213-1030	560K =	213-1077	2M7 =	212-8853		
9K53 =	213-0938	38K3 =	213-0985	150K =	213-1032	562K =	213-1078	2M74 =	212-8854		
10K =	213-0939	39K =	213-0986	154K =	213-1033	590K =	213-1081	2M87 =	212-8855		
10K5 =	213-0940	40K2 =	213-0987	160K =	213-1035	619K =	213-1082	3M =	212-8856		
11K =	213-0941	42K2 =	213-0988	162K =	213-1036	620K =	213-1084	3M01 =	212-8857		
11K5 =	213-0942	43K =	213-0989	169K =	213-1037	649K =	213-1085	3M3 =	212-8859		
12K =	213-0943	44K2 =	213-0990	178K =	213-1038	680K =	213-1086	3M32 =	212-8861		
12K1 =	213-0945	46K4 =	213-0991	180K =	213-1039	681K =	213-1087	3M48 =	212-8862		
12K4 =	213-0946	47K =	213-0992	187K =	213-1040	715K =	213-1088	3M6 =	212-8863		
12K7 =	213-0947	47K5 =	213-0994	196K =	213-1041	750K =	212-8817	3M65 =	212-8864		
13K =	213-0948	48K7 =	213-0995	200K =	213-1042	787K =	212-8818	3M83 =	212-8865		
13K3 =	213-0949	49K9 =	213-0996	205K =	213-1044	820K =	212-8819	3M9 =	212-8866		
14K =	213-0950	51K =	213-0997	215K =	213-1045	825K =	212-8820	4M02 =	212-8867		
14K7 =	213-0951	51K1 =	213-0998	220K =	213-1046	866K =	212-8821	4M3 =	212-8868		
15K =	213-0952	53K6 =	213-0999	226K =	213-1047	909K =	212-8823	4M42 =	212-8869		
15K4 =	213-0953	56K =	213-1000	237K =	213-1048	910K =	212-8824	4M64 =	212-8870		
16K =	213-0954	56K2 =	213-1001	240K =	213-1049	953K =	212-8825	4M7 =	212-8872		
16K2 =	213-0955	59K =	213-1002	249K =	213-1050	1M =	212-8826	5M1 =	212-8873		
16K9 =	213-0957	61K9 =	213-1003	261K =	213-1051	1M05 =	212-8827	5M11 =	212-8875		
17K8 =	213-0958	62K =	213-1004	270K =	213-1052	1M1 =	212-8828	5M6 =	212-8876		
18K =	213-0959	64K9 =	213-1005	274K =	213-1053	1M15 =	212-8829	5M62 =	212-8877		
18K7 =	213-0960	68K =	213-1007	287K =	213-1054	1M2 =	212-8830	5M9 =	212-8878		
19K6 =	213-0961	68K1 =	213-1008	300K =	213-1056	1M21 =	212-8831	6M2 =	212-8880		
20K =	213-0962	71K5 =	213-1009	301K =	213-1057	1M27 =	212-8832	6M49 =	212-8881		
20K5 =	213-0963	75K =	213-1010	316K =	213-1058	1M3 =	212-8833	6M8 =	212-8882		
21K5 =	213-0964	78K7 =	213-1011	330K =	213-1059	1M33 =	212-8835	7M5 =	212-8884		
22K =	213-0965	82K =	213-1012	332K =	213-1060	1M4 =	212-8836	8M2 =	212-8885		
22K6 =	213-0966	82K5 =	213-1013	348K =	213-1061	1M5 =	212-8837	9M1 =	212-8886		
23K7 =	213-0967	86K6 =	213-1014	360K =	213-1062	1M54 =	212-8838	9M53 =	212-8887		
24K =	213-0969	90K9 =	213-1015	365K =	213-1063	1M6 =	212-8839	10M =	212-8888		

	Order Code	Price Each 5K+	+	+	+	+
0603 Case Size	0R TO 9R53					
0603 Case Size	10R TO 1M					
0603 Case Size	1M05 TO 10M					

MC 0.1 Watt ±1% (0805 Case Size)

Stocked in the following OHMIC Values

1R =	212-8889	7R87 =	212-8951	51R =	212-9013	332R =	212-9075	2K15 =	212-9137
1R5 =	212-8890	8R2 =	212-8952	51R1 =	212-9014	348R =	212-9076	2K2 =	212-9138
1R1 =	212-8891	8R25 =	212-8953	53R6 =	212-9015	360R =	212-9077	2K26 =	212-9141
1R15 =	212-8892	8R66 =	212-8954	56R =	212-9016	365R =	212-9078	2K37 =	212-9142
1R2 =	212-8893	9R1 =	212-8955	56R2 =	212-9017	383R =	212-9079	2K4 =	212-9143
1R21 =	212-8894	9R53 =	212-8956	59R =	212-9018	390R =	212-9080	2K49 =	212-9145
1R27 =	212-8896	10R =	212-8957	61R9 =	212-9019	402R =	212-9081	2K61 =	212-9146
1R3 =	212-8897	10R5 =	212-8958	62R =	212-9020	422R =	212-9082	2K7 =	212-9147
1R33 =	212-8898	11R =	212-8959	64R9 =	212-9021	430R =	212-9083	2K74 =	212-9148
1R4 =	212-8899	11R5 =	212-8960	68R =	212-9022	442R =	212-9084	2K87 =	212-9149
1R5 =	212-8890	12R =	212-8961	68R1 =	212-9023	464R =	212-9086	3K =	212-9150
1R6 =	212-8900	12R1 =	212-8963	71R5 =	212-9025	470R =	212-9087	3K01 =	212-9151
1R62 =	212-8902	12R7 =	212-8964	75R =	212-9026	475R =	212-9088	3K16 =	212-9153
1R69 =	212-8903	13R =	212-8965	78R7 =	212-9027	487R =	212-9089	3K3 =	212-9154
1R8 =	212-8904	13R3 =	212-8966	82R =	212-9028	510R =	212-9090	3K32 =	212-9155
1R87 =	212-8905	14R =	212-8967	82R5 =	212-9029	511R =	212-9091	3K48 =	212-9156
1R96 =	212-8906	14R7 =	212-8968	86R6 =	212-9030	536R =	212-9092	3K6 =	212-9157
2R =	212-8907	15R =	212-8969	90R9 =	212-9031	560R =	212-9093	3K65 =	212-9158
2R15 =	212-8908	15R4 =	212-8970	91R =	212-9032	562R =	212-9094	3K83 =	212-9159
2R2 =	212-8909	16R =	212-8971	95R3 =	212-9033	590R =	212-9095	3K9 =	212-9160
2R26 =	212-8910	16R2 =	212-8972	100R =	212-9034	619R =	212-9096	4K02 =	212-9161
2R37 =	212-8911	16R9 =	212-8973	105R =	212-9035	620R =	212-9098	4K22 =	212-9162
2R4 =	212-8912	17R8 =	212-8975	110R =	212-9037	649R =	212-9100	4K3 =	212-9163
2R49 =	212-8914	18R =	212-8976	115R =	212-9038	680R =	212-9101	4K42 =	212-9165
2R61 =	212-8915	18R7 =	212-8977	120R =	212-9039	681R =	212-9102	4K64 =	212-9166
2R7 =	212-8916	19R6 =	212-8978	121R =	212-9040	715R =	212-9104	4K7 =	212-9167
2R74 =	212-8917	20R =	212-8979	127R =	212-9041	750R =	212-9105	4K75 =	212-9168
2R87 =	212-8918	20R5 =	212-8980	130R =	212-9042	787R =	212-9106	4K87 =	212-9169
3R =	212-8919	21R5 =	212-8981	133R =	212-9043	820R =	212-9107	4K99 =	212-9170
3R16 =	212-8920	22R =	212-8982	140R =	212-9044	825R =	212-9108	5K1 =	212-9171
3R3 =	212-8921	22R6 =	212-8983	147R =	212-9045	866R =	212-9109	5K11 =	212-9172
3R32 =	212-8922	23R7 =	212-8984	150R =	212-9046	909R =	212-9110	5K36 =	212-9173
3R48 =	212-8923	24R =	212-8985	154R =	212-9047	910R =	212-9111	5K6 =	212-9174
3R6 =	212-8924	24R9 =	212-8987	160R =	212-9049	953R =	212-9112	5K62 =	212-9175
3R65 =	212-8926	26R1 =	212-8988	162R =	212-9051	1K =	212-9113	5K9 =	212-9177
3R83 =	212-8927	27R =	212-8989	169R =	212-9052	1K05 =	212-9114	6K04 =	212-9178
3R9 =	212-8928	27R4 =	212-8990	178R =	212-9053	1K1 =	212-9116	6K19 =	212-9179
4R22 =	212-8929	28R7 =	212-8991	180R =	212-9054	1K15 =	212-9117	6K2 =	212-9180
4R3 =	212-8930	30R =	212-8992	187R =	212-9055	1K2 =	212-9118	6K49 =	212-9181
4R42 =	212-8931	30R1 =	212-8993	196R =	212-9056	1K21 =	212-9119	6K8 =	212-9182
4R64 =	212-8932	31R6 =	212-8994	200R =	212-9057	1K27 =	212-9120	6K81 =	212-9183
4R7 =	212-8933	33R =	212-8995	205R =	212-9058	1K3 =	212-9121	7K15 =	212-9184
4R87 =	212-8934	33R2 =	212-8996	215R =	212-9059	1K33 =	212-9122	7K5 =	212-9185
5R1 =	212-8935	34R8 =	212-8997	220R =	212-9060	1K4 =	212-9123	7K87 =	212-9186
5R11 =	212-8936	36R =	212-8999	226R =	212-9062	1K47 =	212-9124	8K2 =	212-9187
5R36 =	212-8938	36R5 =	212-9001	237R =	212-9063	1K5 =	212-9125	8K25 =	212-9189
5R6 =	212-8939	38R3 =	212-9002	240R =	212-9064	1K54 =	212-9126	8K66 =	212-9191
5R62 =	212-8940	39R =	212-9003	249R =	212-9065	1K6 =	212-9128	9K09 =	212-9192
5R9 =	212-8941	40R2 =	212-9004	261R =	212-9066	1K62 =	212-9129	9K1 =	212-9193
6R19 =	212-8942	42R2 =	212-9005	270R =	212-9067	1K69 =	212-9130	9K53 =	212-9194
6R2 =	212-8943	43R =	212-9006	274R =	212-9068	1K78 =	212-9131	10K =	212-9195
6R49 =	212-8944	44R2 =	212-9007	287R =	212-9069	1K8 =	212-9132	10K5 =	212-9196
6R8 =	212-8945	46R4 =	212-9008	300R =	212-9070	1K87 =	212-9133	11K =	212-9197
6R81 =	212-8946	47R =	212-9009	301R =	212-9071	1K96 =	212-9134	11K5 =	212-9198
7R15 =	212-8947	48R7 =	212-9010	316R =	212-9072	2K =	212-9135	12K =	212-9199
7R5 =	212-8948	49R9 =	212-9011	330R =	212-9074	2K05 =	212-9136	12K1 =	212-9200

12K4 =	212-9201	43K =	212-9247	150K =	212-9289	499K =	212-9331	1M96 =	212-9374
12K7 =	212-9202	44K2 =	212-9248	154K =	212-9290	510K =	212-9332	2M =	212-9375
13K =	212-9203	46K4 =	212-9249	160K =	212-9291	511K =	212-9333	2M05 =	212-9376
13K3 =	212-9204	47K =	212-9250	162K =	212-9293	536K =	212-9335	2M2 =	212-9377
14K =	212-9205	47K5 =	212-9251	169K =	212-9294	560K =	212-9336	2M37 =	212-9378
14K7 =	212-9207	48K7 =	212-9252	178K =	212-9295	562K =	212-9337	2M4 =	212-9379
15K =	212-9208	49K9 =	212-9253	180K =	212-9296	590K =	212-9338	2M49 =	212-9380
15K4 =	212-9210	51K =	212-9254	187K =	212-9297	619K =	212-9339	2M61 =	212-9381
16K =	212-9211	51K1 =	212-9256	196K =	212-9298	620K =	212-9340	2M7 =	212-9382
16K2 =	212-9212	53K6 =	212-9257	200K =	212-9299	649K =	212-9341	2M74 =	212-9384
16K9 =	212-9213	56K =	212-9258	205K =	212-9300	680K =	212-9342	3M =	212-9385
17K8 =	212-9214	56K2 =	212-9259	215K =	212-9301	681K =	212-9343	3M01 =	212-9386
18K =	212-9215	59K =	212-9260	220K =	212-9302	715K =	212-9344	3M16 =	212-9387
18K7 =	212-9216	61K9 =	212-9261	226K =	212-9303	750K =	212-9345	3M3 =	212-9388
19K6 =	212-9217	62K =	212-9262	237K =	212-9304	787K =	212-9347	3M32 =	212-9389
20K =	212-9219	64K9 =	212-9263	240K =	212-9305	820K =	212-9348	3M48 =	212-9391
20K5 =	212-9221	68K =	212-9264	249K =	212-9306	825K =	212-9349	3M6 =	212-9392
21K5 =	212-9222	68K1 =	212-9265	261K =	212-9307	866K =	212-9350	3M65 =	212-9393
22K =	212-9223	71K5 =	212-9266	270K =	212-9308	909K =	212-9351	3M83 =	212-9394
22K6 =	212-9224	75K =	212-9268	274K =	212-9311	910K =	212-9352	3M9 =	212-9396
23K7 =	212-9225	78K7 =	212-9269	287K =	212-9312	953K =	212-9353	4M02 =	212-9398
24K =	212-9226	82K =	212-9270	300K =	212-9313	1M =	212-9354	4M3 =	212-9399
24K9 =	212-9227	82K5 =	212-9271	301K =	212-9314	1M05 =	212-9355	4M42 =	212-9400
26K1 =	212-9229	86K6 =	212-9272	316K =	212-9315	1M1 =	212-9356	4M64 =	212-9402
27K =	212-9230	90K9 =	212-9273	330K =	212-9316	1M15 =	212-9357	4M7 =	212-9403
27K4 =	212-9232	91K =	212-9274	332K =	212-9317	1M2 =	212-9359	5M1 =	212-9404
28K7 =	212-9233	95K3 =	212-9275	348K =	212-9318	1M21 =	212-9361	5M11 =	212-9405
30K =	212-9234	100K =	212-9276	360K =	212-9319	1M3 =	212-9362	5M6 =	212-9406
30K1 =	212-9235	105K =	212-9277	365K =	212-9320	1M33 =	212-9363	5M9 =	212-9407
31K6 =	212-9236	110K =	212-9278	383K =	212-9321	1M4 =	212-9364	6M2 =	212-9408
33K =	212-9237	115K =	212-9281	390K =	212-9323	1M47 =	212-9365	6M49 =	212-9409
33K2 =	212-9238	120K =	212-9282	402K =	212-9324	1M5 =	212-9366	6M8 =	212-9410
34K8 =	212-9239	121K =	212-9283	422K =	212-9325	1M6 =	212-9367	6M81 =	212-9411
36K =	212-9240	127K =	212-9284	430K =	212-9326	1M62 =	212-9368	7M5 =	212-9412
36K5 =	212-9241	130K =	212-9285	442K =	212-9327	1M69 =	212-9369	8M2 =	212-9414
38K3 =	212-9242	133K =	212-9286	464K =	212-9328	1M78 =	212-9370	9M09 =	212-9415
39K =	212-9244	140K =	212-9287	470K =	212-9329	1M8 =	212-9372	9M1 =	212-9416
40K2 =	212-9245	147K =	212-9288	487K =	212-9330	1M87 =	212-9373	10M =	212-9417
42K2 =	212-9246								

	Order Code	Price Each 5K+	+	+	+	+
0805 Case Size	0R TO 9R53					
0805 Case Size	10R TO 1M					
0805 Case Size	1M05 TO 10M					

0.125 Watt ±1% (1206 Case Size)

Stocked in the following OHMIC Values

1R =	212-9418	8R66 =	212-9482	61R9 =	212-9549	442R =	212-9617	3K16 =	212-9685
1R5 =	212-9429	9R1 =	212-9483	62R =	212-9551	464R =	212-9618	3K3 =	212-9686
1R1 =	212-9419	9R53 =	212-9484	64R9 =	212-9552	470R =	212-9621	3K32 =	212-9687
1R15 =	212-9420	10R =	212-9485	68R =	212-9555	475R =	212-9622	3K48 =	212-9688
1R2 =	212-9421	10R5 =	212-9487	68R1 =	212-9557	487R =	212-9623	3K6 =	212-9689
1R21 =	212-9422	11R =	212-9488	71R5 =	212-9558	510R =	212-9624	3K65 =	212-9690
1R27 =	212-9423	11R5 =	212-9489	75R =	212-9559	510R =	212-9624	3K83 =	212-9691
1R3 =	212-9424	12R =	212-9490	78R7 =	212-9560	536R =	212-9626	3K9 =	212-9692
1R33 =	212-9426	12R1 =	212-9491	82R =	212-9561	560R =	212-9627	4K02 =	212-9694
1R4 =	212-9427	12R7 =	212-9492	82R5 =	212-9562	562R =	212-9628	4K22 =	212-9695
1R47 =	212-9428	13R =	212-9493	86R6 =	212-9563	590R =	212-9629	4K3 =	212-9696
1R5 =	212-9429	13R3 =	212-9494	90R9 =	212-9564	619R =	212-9630	4K42 =	212-9697
1R54 =	212-9430	14R =	212-9495	91R =	212-9566	620R =	212-9631	4K64 =	212-9698
1R6 =	212-9431	14R7 =	212-9496	95R3 =	212-9567	649R =	212-9633	4K7 =	212-9699
1R62 =	212-9432	15R =	212-9497	100R =	212-9568	680R =	212-9634	4K75 =	212-9701
1R69 =	212-9433	15R4 =	212-9499	105R =	212-9569	681R =	212-9635	4K87 =	212-9702
1R78 =	212-9434	16R =	212-9500	110R =	212-9570	715R =	212-9636	4K99 =	212-9703
1R8 =	212-9435	16R2 =	212-9501	115R =	212-9571	750R =	212-9637	5K1 =	212-9704
1R87 =	212-9436	16R9 =	212-9502	120R =	212-9572	787R =	212-9638	5K11 =	212-9705
1R96 =	212-9438	17R8 =	212-9503	121R =	212-9573	820R =	212-9639	5K36 =	212-9706
2R =	212-9439	18R =	212-9505	127R =	212-9574	825R =	212-9640	5K6 =	212-9707
2R15 =	212-9440	18R7 =	212-9506	130R =	212-9575	866R =	212-9641	5K62 =	212-9708
2R2 =	212-9441	19R6 =	212-9507	133R =	212-9576	909R =	212-9642	5K9 =	212-9709
2R26 =	212-9442	20R =	212-9508	140R =	212-9578	910R =	212-9643	6K04 =	212-9710
2R37 =	212-9443	20R5 =	212-9509	147R =	212-9579	953R =	212-9645	6K19 =	212-9712
2R4 =	212-9444	21R5 =	212-9510	150R =	212-9580	1K =	212-9646	6K2 =	212-9713
2R49 =	212-9445	22R =	212-9511	154R =	212-9581	1K05 =	212-9647	6K49 =	212-9714
2R61 =	212-9446	22R6 =	212-9512	160R =	212-9582	1K1 =	212-9648	6K8 =	212-9715
2R7 =	212-9447	23R7 =	212-9513	162R =	212-9583	1K15 =	212-9649	6K81 =	212-9716
2R74 =	212-9448	24R =	212-9514	169R =	212-9584	1K2 =	212-9650	7K15 =	212-9718
2R87 =	212-9451	24R9 =	212-9515	178R =	212-9585	1K21 =	212-9651	7K5 =	212-9719
3R =	212-9452	26R1 =	212-9517	180R =	212-9586	1K27 =	212-9652	7K87 =	212-9720
3R16 =	212-9453	27R =	212-9518	187R =	212-9587	1K3 =	212-9653	8K2 =	212-9721
3R3 =	212-9454	27R4 =	212-9519	196R =	212-9588	1K33 =	212-9654	8K25 =	212-9722
3R32 =	212-9455	28R7 =	212-9520	200R =	212-9591	1K4 =	212-9655	8K66 =	212-9724
3R48 =	212-9456	30R =	212-9521	205R =	212-9592	1K47 =	212-9657	9K09 =	212-9725
3R6 =	212-9457	30R1 =	212-9522	215R =	212-9593	1K5 =	212-9658	9K1 =	212-9726
3R65 =	212-9458	31R6 =	212-9523	220R =	212-9594	1K54 =	212-9659	9K53 =	212-9727
3R9 =	212-9459	33R =	212-9524	226R =	212-9595	1K6 =	212-9660	10K =	212-9728
4R22 =	212-9460	33R2 =	212-9525	237R =	212-9596	1K62 =	212-9661	10K5 =	212-9729
4R3 =	212-9461	34R8 =	212-9526	240R =	212-9597	1K69 =	212-9662	11K =	212-9730
4R42 =	212-9463	36R =	212-9527	249R =	212-9598	1K78 =	212-9663	11K5 =	212-9731
4R64 =	212-9464	36R5 =	212-9529	261R =	212-9599	1K8 =	212-9664	12K =	212-9732
4R7 =	212-9465	38R3 =	212-9531	270R =	212-9600	1K87 =	212-9665	12K1 =	212-9733
5R1 =	212-9466	39R =	212-9532	274R =	212-9601	1K96 =	212-9666	12K4 =	212-9736
5R11 =	212-9467	40R2 =	212-9533	287R =	212-9602	2K =	212-9669	12K7 =	212-9737
5R36 =	212-9468	42R2 =	212-9534	300R =	212-9603	2K05 =	212-9671	13K =	212-9738
5R6 =	212-9469	43R =	212-9535	301R =	212-9604	2K15 =	212-9672	13K3 =	212-9739
5R62 =	212-9470	44R2 =	212-9536	316R =	212-9605	2K2 =	212-9673	14K =	212-9740
5R9 =	212-9471	46R4 =	212-9537	330R =	212-9606	2K26 =	212-9674	14K7 =	212-9742
6R19 =	212-9472	47R =	212-9538	332R =	212-9608	2K37 =	212-9675	15K =	212-9743
6R2 =	212-9473	48R7 =	212-9539	348R =	212-9609	2K4 =	212-9676	15K4 =	212-9744
6R8 =	212-9475	49R9 =	212-9540	360R =	212-9610	2K49 =	212-9677	16K =	212-9745
6R81 =	212-9476	51R =	212-9542	365R =	212-9611	2K61 =	212-9678	16K2 =	212-9746
7R15 =	212-9477	51R1 =	212-9543	383R =	212-9612	2K7 =	212-9679	16K9 =	212-9748
7R5 =	212-9478	53R6 =	212-9544	390R =	212-9613	2K74 =	212-9680	17K8 =	212-9749
7R87 =	212-9479	56R =	212-9545	402R =	212-9614	2K87 =	212-9682	18K =	212-9750
8R2 =	212-9480	56R2 =	212-9546	422R =	212-9615	3K =	212-9683	18K7 =	212-9751
8R25 =	212-9481	59R =	212-9547	430R =	212-9616	3K01 =	212-9684	19K6 =	212-9752

Surface Mount - ±1% Full Reels - continued

20K =	212-9753	56K =	212-9791	187K =	212-9829	536K =	212-9866	2M2 =	212-9904
20K5 =	212-9754	56K2 =	212-9792	200K =	212-9830	560K =	212-9867	2M26 =	212-9906
21K5 =	212-9755	59K =	212-9793	205K =	212-9831	562K =	212-9868	2M4 =	212-9907
22K =	212-9756	61K9 =	212-9794	215K =	212-9832	590K =	212-9869	2M61 =	212-9908
22K6 =	212-9757	62K =	212-9795	220K =	212-9833	619K =	212-9870	2M7 =	212-9909
23K7 =	212-9758	64K9 =	212-9797	226K =	212-9834	620K =	212-9871	2M74 =	212-9910
24K =	212-9761	68K =	212-9798	237K =	212-9835	649K =	212-9872	2M87 =	212-9911
24K9 =	212-9762	68K1 =	212-9799	240K =	212-9836	680K =	212-9873	3M =	212-9912
26K1 =	212-9763	71K5 =	212-9800	249K =	212-9837	681K =	212-9876	3M01 =	212-9913
27K =	212-9764	75K =	212-9801	261K =	212-9839	715K =	212-9877	3M16 =	212-9914
27K4 =	212-9765	78K7 =	212-9803	270K =	212-9841	750K =	212-9878	3M3 =	212-9915
28K7 =	212-9766	82K =	212-9804	274K =	212-9842	787K =	212-9879	3M32 =	212-9916
30K =	212-9767	82K5 =	212-9805	287K =	212-9843	820K =	212-9880	3M48 =	212-9918
30K1 =	212-9768	86K6 =	212-9806	300K =	212-9844	825K =	212-9881	3M6 =	212-9919
31K6 =	212-9769	90K9 =	212-9807	301K =	212-9845	866K =	212-9882	3M65 =	212-9920
33K =	212-9770	91K =	212-9808	316K =	212-9846	909K =	212-9883	3M83 =	212-9921
33K2 =	212-9771	95K3 =	212-9809	330K =	212-9847	910K =	212-9884	3M9 =	212-9922
34K8 =	212-9773	100K =	212-9810	332K =	212-9848	953K =	212-9885	4M02 =	212-9923
36K =	212-9774	105K =	212-9811	348K =	212-9849	1M =	212-9886	4M3 =	212-9924
36K5 =	212-9775	110K =	212-9812	360K =	212-9850	1M1 =	212-9888	4M7 =	212-9925
38K3 =	212-9776	115K =	212-9813	365K =	212-9852	1M15 =	212-9889	4M87 =	212-9926
39K =	212-9777	120K =	212-9815	383K =	212-9853	1M2 =	212-9890	5M1 =	212-9927
40K2 =	212-9778	121K =	212-9816	390K =	212-9854	1M21 =	212-9892	5M11 =	212-9928
42K2 =	212-9779	127K =	212-9817	402K =	212-9855	1M3 =	212-9893	5M36 =	212-9931
43K =	212-9780	130K =	212-9818	422K =	212-9856	1M4 =	212-9894	5M6 =	212-9932
44K2 =	212-9781	133K =	212-9819	430K =	212-9857	1M47 =	212-9895	6M19 =	212-9933
46K4 =	212-9782	140K =	212-9820	442K =	212-9858	1M5 =	212-9896	6M2 =	212-9934
47K =	212-9783	147K =	212-9821	464K =	212-9859	1M6 =	212-9897	6M8 =	212-9935
47K5 =	212-9785	150K =	212-9822	470K =	212-9860	1M62 =	212-9898	6M81 =	212-9936
48K7 =	212-9786	160K =	212-9823	487K =	212-9861	1M69 =	212-9900	7M5 =	212-9937
49K9 =	212-9787	162K =	212-9824	499K =	212-9862	1M78 =	212-9901	8M2 =	212-9938
51K =	212-9788	169K =	212-9825	510K =	212-9864	1M8 =	212-9902	9M1 =	212-9939
51K1 =	212-9789	178K =	212-9827	511K =	212-9865	2M =	212-9903	10M =	212-9940
53K6 =	212-9790	180K =	212-9828						

663403

	Order Code	Price Each 5K+	+	+	+	+
1206 Case Size	0R TO 9R53					
1206 Case Size	10R TO 1M					
1206 Case Size	1M1 TO 10M					

Surface Mount Resistor Kits

multicomp

- Ring binder surface mount resistor kits
- 0603, 0805 and 1206 case sizes
- 5% and 1% tolerance options
- Available in E6, E12 and E24 series values
- Kits contain 100 pieces of each ohmic value from 10R to 1M plus 0R
- All resistors are individually marked and supplied on 8mm tapes
- Kits can be restocked when required

SMD

E6 Series Kits	0, 10, 15, 22, 33, 47, 68 (100 of each value)
E12 Series Kits	0, 10, 12, 15, 18, 22, 27, 33, 39, 47, 56, 68, 82 (100 of each value)
E24 Series Kits	0, 10, 11, 12, 13, 15, 16, 18, 20, 22, 24, 27, 30, 33, 36, 39, 43, 47, 51, 56, 62, 68, 75, 82, 91 (100 of each value)
Contents:	E6 kits 32 values, E12 kits 62 values, E24 kits 121 values

272554

Case Size	Contents	Tolerance	Order Code	Price Each 1+	3+	5+
0603	E24	±1%	933-1654●			
0603	E6	±5%	933-2359●			
0603	E12	±5%	933-2367●			
0805	E24	±1%	933-3673●			
0805	E12	±5%	933-4980●			
0805	E24	±5%	933-4998●			
1206	E24	±1%	933-6966●			
1206	E12	±5%	933-7644●			

Insert Sheets		Price Per Pack 1+	3+	5+
Pack of 5	541-2067			

Thick Film Chip Resistor

Panasonic

NEW

Case Size	Limiting Element Voltage (V)
0402	50
0603	75
0805	150
1206	200

Operating temperature -55°C to + 125°C

ERJ2RK Series 0.1 Watt ±1% (0402 Case Size)

Stocked in the following OHMIC Values

16R5 =	205-9097	20R =	205-9099	24R9 =	205-9102	27R4 =	205-9104	33R2 =	205-9106
18R2 =	205-9098	22R1 =	205-9100	26R7 =	205-9103	30R1 =	205-9105	37R4 =	205-9107
40R2 =	205-9108	475R =	205-9124	3K4 =	205-9141	12K4 =	205-9158	56K2 =	205-9175
49R9 =	205-9109	499R =	205-9126	4K02 =	205-9142	16K2 =	205-9159	60K4 =	205-9176
51R1 =	205-9110	750R =	205-9127	4K32 =	205-9143	20K =	205-9160	61K9 =	205-9177
75R =	205-9111	1K1 =	205-9128	4K75 =	205-9144	22K1 =	205-9161	75K =	205-9178
110R =	205-9112	1K21 =	205-9129	4K99 =	205-9145	24K9 =	205-9163	80K6 =	205-9179
121R =	205-9114	1K3 =	205-9130	5K11 =	205-9146	27K4 =	205-9164	90K9 =	205-9180
130R =	205-9115	1K65 =	205-9131	6K04 =	205-9147	30K1 =	205-9165	110K =	205-9181
182R =	205-9116	2K =	205-9132	6K81 =	205-9148	31K6 =	205-9166	121K =	205-9182
200R =	205-9117	2K21 =	205-9133	7K5 =	205-9151	32K4 =	205-9167	165K =	205-9183
221R =	205-9118	2K32 =	205-9134	8K06 =	205-9152	33K2 =	205-9168	169K =	205-9184
240R =	205-9119	2K49 =	205-9135	8K25 =	205-9153	40K2 =	205-9169	200K =	205-9185
249R =	205-9120	2K74 =	205-9136	9K09 =	205-9154	44K2 =	205-9170	249K =	205-9187
301R =	205-9121	3K01 =	205-9138	10K7 =	205-9155	47K5 =	205-9171	301K =	205-9188
332R =	205-9122	3K09 =	205-9139	11K =	205-9156	49K9 =	205-9172	499K =	205-9189
402R =	205-9123	3K32 =	205-9140	12K1 =	205-9157	52K3 =	205-9173		

	Order Code	Price Each 50+	100+	500+	1K+	+
ERJ2RK Series	All values ● RL					
(0402 Case)						

ERJ2GE Series 0.1 Watt ±5% (0402 Case Size)

Stocked in the following OHMIC Values

0R =	205-9190	51R =	205-9205	330R =	205-9219	4K7 =	205-9234	56K =	205-9248
1R =	205-9191	56R =	205-9206	390R =	205-9220	5K1 =	205-9235	75K =	205-9249
2R =	205-9192	68R =	205-9207	470R =	205-9221	6K8 =	205-9236	100K =	205-9250
4R7 =	205-9193	75R =	205-9208	510R =	205-9222	7K5 =	205-9237	150K =	205-9251
5R1 =	205-9194	82R =	205-9209	560R =	205-9223	8K2 =	205-9238	200K =	205-9252
10R =	205-9195	100R =	205-9210	680R =	205-9224	10K =	205-9239	220K =	205-9254
18R =	205-9196	120R =	205-9211	1K =	205-9225	15K =	205-9240	470K =	205-9255
22R =	205-9197	150R =	205-9212	1K2 =	205-9226	20K =	205-9242	1M =	205-9256
24R =	205-9199	180R =	205-9213	1K5 =	205-9227	22K =	205-9243	2M =	205-9257
27R =	205-9200	200R =	205-9214	2K =	205-9229	27K =	205-9244	2M2 =	205-9258
33R =	205-9201	220R =	205-9215	2K2 =	205-9231	33K =	205-9245	4M7 =	205-9259
39R =	205-9202	270R =	205-9217	2K7 =	205-9232	47K =	205-9246	10M =	205-9260
47R =	205-9203	300R =	205-9218	3K3 =	205-9233	51K =	205-9247		

	Order Code	Price Each 50+	100+	500+	1K+	+
ERJ2GE Series	All values ● RL					
(0402 Case)						

ERJ3GE Series 0.1 Watt ±5% (0603 Case Size)

Stocked in the following OHMIC Values

0R =	205-9527	33R =	205-9561	620R =	205-9595	12K =	205-9631	240K =	205-9664
1R =	205-9528	36R =	205-9562	680R =	205-9596	13K =	205-9632	270K =	205-9665
1R5 =	205-9529	39R =	205-9564	750R =	205-9597	15K =	205-9633	300K =	205-9667
1R8 =	205-9530	43R =	205-9565	820R =	205-9598	16K =	205-9634	330K =	205-9668
2R =	205-9531	47R =	205-9566	910R =	205-9600	18K =	205-9635	360K =	205-9669
2R2 =	205-9532	51R =	205-9567	1K =	205-9601	20K =	205-9636	390K =	205-9670
2R7 =	205-9533	56R =	205-9568	1K1 =	205-9602	22K =	205-9637	430K =	205-9671
3R =	205-9534	62R =	205-9569	1K2 =	205-9603	24K =	205-9638	470K =	205-9672
3R3 =	205-9535	68R =	205-9570	1K3 =	205-9604	27K =	205-9639	510K =	205-9673
3R6 =	205-9536	75R =	205-9571	1K5 =	205-9606	30K =	205-9640	560K =	205-9674
4R3 =	205-9537	82R =	205-9572	1K6 =	205-9607	33K =	205-9641	680K =	205-9675
4R7 =	205-9539	91R =	205-9573	1K8 =	205-9608	36K =	205-9643	750K =	205-9676
5R1 =	205-9541	100R =	205-9574	2K =	205-9609	39K =	205-9644	820K =	205-9677
5R6 =	205-9542	110R =	205-9576	2K2 =	205-9610	43K =	205-9645	1M =	205-9679
6R2 =	205-9543	120R =	205-9577	2K4 =	205-9611	47K =	205-9646	1M1 =	205-9681
6R8 =	205-9544	130R =	205-9578	2K7 =	205-9612	51K =	205-9647	1M2 =	205-9682
7R5 =	205-9545	150R =	205-9579	3K =	205-9613	56K =	205-9648	1M3 =	205-9683
8R2 =	205-9546	160R =	205-9580	3K3 =	205-9614	62K =	205-9649	1M5 =	205-9684
9R1 =	205-9547	180R =	205-9581	3K6 =	205-9615	68K =	205-9650	1M6 =	205-9685
10R =	205-9548	200R =	205-9582	3K9 =	205-9616	75K =	205-9651	1M8 =	205-9686
11R =	205-9549	220R =	205-9583	4K3 =	205-9618	82K =	205-9652	2M =	205-9687
12R =	205-9550	240R =	205-9584	4K7 =	205-9619	91K =	205-9653	2M2 =	205-9688
13R =	205-9552	270R =	205-9585	5K1 =	205-9620	100K =	205-9655	2M4 =	205-9689
15R =	205-9553	300R =	205-9586	5K6 =	205-9621	110K =	205-9656	3M =	205-9690
16R =	205-9554	330R =	205-9588	6K2 =	205-9622	120K =	205-9657	3M3 =	205-9692
18R =	205-9555	360R =	205-9589	6K8 =	205-9623	130K =	205-9658	3M9 =	205-9693
20R =	205-9556	390R =	205-9590	7K5 =	205-9624	150K =	205-9659	4M7 =	205-9694
22R =	205-9557	430R =	205-9591	8K2 =	205-9625	160K =	205-9660	5M1 =	205-9695
24R =	205-9558	470R =	205-9592	9K1 =	205-9626	180K =	205-9661	6M2 =	205-9696
27R =	205-9559	510R =	205-9593	10K =	205-9627	200K =	205-9662	7M5 =	205-9697
30R =	205-9560	560R =	205-9594	11K =	205-9628	220K =	205-9663	8M2 =	205-9698

	Order Code	Price Each 50+	100+	500+	1K+	+
ERJ3GE Series	All values ● RL					
(0603 Case)						

ERJ6GE Series 0.125 Watt ±5% (0805 Case Size)

Stocked in the following OHMIC Values

0R =	205-7661	56R =	205-7678	510R =	205-7695	3K3 =	205-7711	39K =	205-7727
1R =	205-7662	68R =	205-7679	560R =	205-7696	3K9 =	205-7713	47K =	205-7728
2R2 =	205-7663	75R =	205-7680	680R =	205-7697	4K7 =	205-7714	56K =	205-7729
2R7 =	205-7664	100R =	205-7681	750R =	205-7698	5K1 =	205-7715	68K =	205-7730
4R7 =	205-7665	120R =	205-7683	820R =	205-7699	5K6 =	205-7716	100K =	205-7731
6R8 =	205-7666	150R =	205-7684	1K =	205-7701	6K8 =	205-7717	150K =	205-7732
10R =	205-7667	180R =	205-7685	1K2 =	205-7702	9K1 =	205-7718	200K =	205-7733
12R =	205-7668	200R =	205-7686	1K3 =	205-7703	10K =	205-7719	220K =	205-7734
15R =	205-7671	220R =	205-7687	1K5 =	205-7704	12K =	205-7720	430K =	205-7735
22R =	205-7672	240R =	205-7688	1K6 =	205-7705	15K =	205-7721	470K =	205-7737
27R =	205-7673	270R =	205-7689	1K8 =	205-7706	20K =	205-7722	1M =	205-7738
30R =	205-7674	300R =	205-7690	2K =	205-7707	22K =	205-7723	2M2 =	205-7739
33R =	205-7675	330R =	205-7691	2K2 =	205-7708	24K =	205-7725	2M =	205-7740
47R =	205-7676	390R =	205-7692	2K7 =	205-7709	33K =	205-7726	10M =	205-7741
51R =	205-7677	470R =	205-7693	3K =	205-7710				

	Order Code	Price Each 50+	100+	500+	1K+	+
ERJ6GE Series	All values ● RL					
(0805 Case Size)						

RoHS ● Compliant ▲ Non-compliant

ERJ8GE Series 0.25 Watt ±5% (1206 Case Size)

Stocked in the following OHMIC Values

0R =	205-7791	68R =	205-7809	430R =	205-7826	2K =	205-7844	22K =	205-7860
1R =	205-7792	75R =	205-7810	470R =	205-7828	2K2 =	205-7845	33K =	205-7861
2R =	205-7793	82R =	205-7811	510R =	205-7829	2K7 =	205-7846	47K =	205-7862
2R2 =	205-7794	91R =	205-7812	560R =	205-7830	3K =	205-7847	51K =	205-7863
3R =	205-7795	100R =	205-7813	620R =	205-7831	3K3 =	205-7848	56K =	205-7865
4R7 =	205-7796	120R =	205-7814	680R =	205-7832	3K9 =	205-7849	68K =	205-7866
5R1 =	205-7798	150R =	205-7816	750R =	205-7833	4K3 =	205-7850	100K =	205-7867
10R =	205-7799	180R =	205-7817	820R =	205-7834	4K7 =	205-7851	150K =	205-7868
20R =	205-7800	200R =	205-7818	910R =	205-7835	5K1 =	205-7853	200K =	205-7869
22R =	205-7801	220R =	205-7819	1K =	205-7836	6K8 =	205-7854	220K =	205-7870
27R =	205-7802	240R =	205-7820	1K1 =	205-7837	8K2 =	205-7855	330K =	205-7871
33R =	205-7804	270R =	205-7821	1K3 =	205-7838	10K =	205-7856	510K =	205-7872
39R =	205-7805	300R =	205-7822	1K5 =	205-7841	15K =	205-7857	1M =	205-7873
47R =	205-7806	330R =	205-7823	1K6 =	205-7842	18K =	205-7858	3M =	205-7874
51R =	205-7807	360R =	205-7824	1K8 =	205-7843	20K =	205-7859	10M =	205-7875
56R =	205-7808	390R =	205-7825						

	Order Code	Price Each 50+	100+	500+	1K+	+
ERJ8GE Series	All values ● RL					
(1206 Case Size)						

ERJ3EK Series 0.1 Watt ±1% (0603 Case Size)

Stocked in the following OHMIC Values

20R =	205-9261	549R =	205-9314	3K83 =	205-9367	15K8 =	205-9421	53K6 =	205-9475
22R1 =	205-9262	576R =	205-9315	4K02 =	205-9369	16K =	205-9422	54K9 =	205-9476
24R9 =	205-9263	604R =	205-9316	4K12 =	205-9371	16K2 =	205-9424	56K2 =	205-9477
27R4 =	205-9264	619R =	205-9317	4K32 =	205-9372	16K5 =	205-9425	60K4 =	205-9478
30R1 =	205-9266	649R =	205-9318	4K42 =	205-9373	16K9 =	205-9426	61K9 =	205-9479
33R2 =	205-9267	698R =	205-9321	4K53 =	205-9374	17K4 =	205-9427	63K4 =	205-9480
37R4 =	205-9268	715R =	205-9322	4K64 =	205-9375	18K2 =	205-9428	64K9 =	205-9481
39R2 =	205-9269	750R =	205-9323	4K75 =	205-9376	18K7 =	205-9429	68K1 =	205-9482
40R2 =	205-9270	806R =	205-9324	4K99 =	205-9377	19K1 =	205-9430	71K5 =	205-9483
43R =	205-9271	825R =	205-9325	5K1 =	205-9378	19K6 =	205-9431	73K2 =	205-9485
44R2 =	205-9272	866R =	205-9326	5K11 =	205-9379	20K =	205-9432	75K =	205-9486
47R5 =	205-9273	909R =	205-9327	5K23 =	205-9380	20K5 =	205-9433	78K7 =	205-9487
49R9 =	205-9274	1K02 =	205-9328	5K36 =	205-9382	21K =	205-9434	80K6 =	205-9488
51R =	205-9275	1K1 =	205-9329	5K49 =	205-9383	21K5 =	205-9436	82K5 =	205-9489
51R1 =	205-9276	1K13 =	205-9330	5K62 =	205-9384	22K1 =	205-9437	86K6 =	205-9490
54R9 =	205-9278	1K21 =	205-9331	5K76 =	205-9385	22K6 =	205-9438	88K7 =	205-9491
56R2 =	205-9279	1K24 =	205-9333	6K04 =	205-9386	23K2 =	205-9439	90K9 =	205-9492
60R4 =	205-9280	1K3 =	205-9334	6K19 =	205-9387	23K7 =	205-9440	102K =	205-9493
68R1 =	205-9281	1K37 =	205-9335	6K34 =	205-9388	24K =	205-9441	105K =	205-9494
75R =	205-9282	1K47 =	205-9336	6K49 =	205-9389	24K3 =	205-9442	110K =	205-9495
82R5 =	205-9283	1K62 =	205-9337	6K65 =	205-9390	24K9 =	205-9443	113K =	205-9497
86R6 =	205-9284	1K65 =	205-9338	6K81 =	205-9391	25K5 =	205-9444	121K =	205-9498
90R9 =	205-9285	1K69 =	205-9339	6K98 =	205-9392	26K1 =	205-9445	124K =	205-9499
110R =	205-9286	1K82 =	205-9340	7K15 =	205-9394	26K7 =	205-9446	127K =	205-9500
121R =	205-9287	1K87 =	205-9341	7K5 =	205-9395	27K4 =	205-9448	130K =	205-9501
130R =	205-9288	1K96 =	205-9342	7K68 =	205-9396	28K =	205-9449	137K =	205-9503
165R =	205-9291	2K =	205-9343	7K87 =	205-9397	29K4 =	205-9450	140K =	205-9504
182R =	205-9292	2K1 =	205-9345	8K06 =	205-9398	30K =	205-9451	162K =	205-9505
200R =	205-9293	2K15 =	205-9346	8K25 =	205-9399	30K1 =	205-9452	169K =	205-9506
210R =	205-9294	2K21 =	205-9347	8K45 =	205-9401	30K9 =	205-9453	178K =	205-9507
215R =	205-9295	2K32 =	205-9348	8K87 =	205-9402	31K6 =	205-9454	182K =	205-9508
221R =	205-9296	2K37 =	205-9349	9K09 =	205-9403	32K4 =	205-9455	200K =	205-9509
240R =	205-9297	2K43 =	205-9350	9K1 =	205-9404	33K2 =	205-9456	210K =	205-9510
243R =	205-9298	2K49 =	205-9351	9K31 =	205-9405	34K8 =	205-9457	215K =	205-9511
249R =	205-9299	2K55 =	205-9352	9K53 =	205-9406	35K7 =	205-9458	221K =	205-9512
255R =	205-9300	2K74 =	205-9353	10K2 =	205-9407	36K5 =	205-9461	249K =	205-9513
274R =	205-9301	2K87 =	205-9354	10K5 =	205-9408	38K3 =	205-9462	280K =	205-9515
280R =	205-9302	2K94 =	205-9355	11K =	205-9409	40K2 =	205-9463	301K =	205-9516
300R =	205-9303	3K =	205-9357	11K3 =	205-9410	41K2 =	205-9464	309K =	205-9517
301R =	205-9304	3K01 =	205-9358	11K5 =	205-9412	42K2 =	205-9465	332K =	205-9518
332R =	205-9305	3K09 =	205-9359	12K1 =	205-9413	43K2 =	205-9466	453K =	205-9519
374R =	205-9306	3K16 =	205-9360	12K4 =	205-9414	44K2 =	205-9467	475K =	205-9520
402R =	205-9308	3K24 =	205-9361	12K7 =	205-9415	45K3 =	205-9468	511K =	205-9521
432R =	205-9309	3K32 =	205-9362	13K =	205-9416	47K5 =	205-9469	549K =	205-9522
475R =	205-9310	3K4 =	205-9363	13K3 =	205-9417	49K9 =	205-9470	634K =	205-9523
499R =	205-9311	3K57 =	205-9364	13K7 =	205-9418	51K =	205-9471	750K =	205-9524
510R =	205-9312	3K65 =	205-9365	14K =	205-9419	51K1 =	205-9473	887K =	205-9525
511R =	205-9313	3K74 =	205-9366	14K7 =	205-9420	52K3 =	205-9474		

	Order Code	Price Each 50+	100+	500+	1K+	+
ERJ3EK Series	All values ● RL					
(0603 Case Size)						

ERJ6EN Series 0.125 Watt ±1% (0805 Case Size)

Stocked in the following OHMIC Values

20R =	205-7582	274R =	205-7598	2K49 =	205-7615	7K5 =	205-7630	30K1 =	205-7646
22R1 =	205-7583	294R =	205-7599	2K74 =	205-7616	8K25 =	205-7631	33K2 =	205-7647
24R9 =	205-7584	301R =	205-7600	3K =	205-7617	9K09 =	205-7632	39K2 =	205-7648
33R2 =	205-7585	332R =	205-7601	3K01 =	205-7618	10K2 =	205-7634	40K2 =	205-7649
40R2 =	205-7586	475R =	205-7602	3K32 =	205-7619	11K3 =	205-7635	47K5 =	205-7650
47R5 =	205-7587	499R =	205-7603	3K92 =	205-7620	12K1 =	205-7636	49K9 =	205-7651
49R9 =	205-7588	511R =	205-7604	4K02 =	205-7622	12K4 =	205-7637	51K1 =	205-7652
51R1 =	205-7589	681R =	205-7605	4K75 =	205-7623	16K2 =	205-7638	56K2 =	205-7653
75R =	205-7590	750R =	205-7606	4K87 =	205-7624	19K6 =	205-7639	60K4 =	205-7654
121R =	205-7592	825R =	205-7607	4K99 =	205-7625	20K =	205-7640	75K =	205-7655
130R =	205-7593	845R =	205-7609	5K11 =	205-7626	21K5 =	205-7641	200K =	205-7656
200R =	205-7594	1K21 =	205-7611	5K62 =	205-7627	22K1 =	205-7642	249K =	205-7658
221R =	205-7595	1K82 =	205-7612	6K04 =	205-7628	24K9 =	205-7643	316K =	205-7659
243R =	205-7596	2K =	205-7613	6K81 =	205-7629	27K4 =	205-7644	499K =	205-7660
249R =	205-7597	2K21 =	205-7614						

	Order Code	Price Each 50+	100+	500+	1K+	+
ERJ6EN Series	All values ● RL					
(0805 Case Size)						

ERJ8EN Series 0.25 Watt ±1% (1206 Case Size)

Stocked in the following OHMIC Values

20R =	205-7742	221R =	205-7753	1K3 =	205-7763	5K11 =	205-7772	60K4 =	205-7782
22R1 =	205-7743	249R =	205-7754	2K =	205-7764	20K =	205-7774	71K5 =	205-7783
24R9 =	205-7744	301R =	205-7755	2K21 =	205-7765	22K1 =	205-7775	84K5 =	205-7784
49R9 =	205-7745	332R =	205-7756	2K49 =	205-7766	29K4 =	205-7776	121K =	205-7786
60R4 =	205-7746	475R =	205-7757	3K01 =	205-7767	35K7 =	205-7777	182K =	205-7787
75R =	205-7747	499R =	205-7758	3K32 =	205-7768	43K2 =	205-7778	200K =	205-7788
107R =	205-7749	681R =	205-7759	3K74 =	205-7769	47K5 =	205-7779	464K =	205-7789
121R =	205-7751	750R =	205-7760	4K75 =	205-7770	49K9 =	205-7780	499K =	205-7790
200R =	205-7752	1K21 =	205-7762	4K99 =	205-7771	51K1 =	205-7781		

651528

	Order Code	Price Each 50+	100+	500+	1K+	+
ERJ8EN Series	All values ● RL					
(1206 Case Size)						

ERJ Series -Thick Film Rchip

Panasonic

SMD Full Reels

Full Reels

Operating Temperature	-55°C to +125°C
Tolerance	± 1%

0201 Case Size

H = 0.23, W = 0.6, D = 0.3mm, Voltage Overload 50V, Power Rating 0.05 W

● AECQ-200 Automotive Approved

Stocked in the following OHMIC Values:

10R =	174-8068	110R =	174-8095	1K1 =	174-8122	11K =	174-8149	110K =	174-8175
11R =	174-8069	120R =	174-8096	1K2 =	174-8123	12K =	174-8150	120K =	174-8176
12R =	174-8070	130R =	174-8097	1K3 =	174-8124	13K =	174-8151	130K =	174-8177
13R =	174-8071	150R =	174-8098	1K5 =	174-8125	15K =	174-8152	150K =	174-8179
15R =	174-8072	160R =	174-8100	1K6 =	174-8126	16K =	174-8153	160K =	174-8181
16R =	174-8073	180R =	174-8101	1K8 =	174-8127	18K =	174-8155	180K =	174-8182
18R =	174-8074	200R =	174-8102	2K =	174-8128	20K =	174-8156	200K =	174-8183
20R =	174-8076	220R =	174-8103	2K2 =	174-8131	22K =	174-8157	220K =	174-8184
22R =	174-8077	240R =	174-8104	2K4 =	174-8132	24K =	174-8158	240K =	174-8185
24R =	174-8078	270R =	174-8106	2K7 =	174-8133	27K =	174-8159	270K =	174-8186
27R =	174-8079	300R =	174-8107	3K =	174-8134	30K =	174-8160	300K =	174-8187
30R =	174-8080	330R =	174-8108	3K3 =	174-8135	33K =	174-8161	330K =	174-8188
33R =	174-8081	360R =	174-8109	3K6 =	174-8136	36K =	174-8162	360K =	174-8189
36R =	174-8082	390R =	174-8110	3K9 =	174-8137	39K =	174-8163	390K =	174-8190
39R =	174-8083	430R =	174-8111	4K3 =	174-8138	43K =	174-8164	430K =	174-8192
43R =	174-8084	470R =	174-8112	4K7 =	174-8139	47K =	174-8165	470K =	174-8193
47R =	174-8085	510R =	174-8113	5K1 =	174-8140	51K =	174-8167	510K =	174-8194
51R =	174-8086	560R =	174-8114	5K6 =	174-8141	56K =	174-8168	560K =	174-8195
56R =	174-8088	620R =	174-8115	6K2 =	174-8143	62K =	174-8169	620K =	174-8196
62R =	174-8089	680R =	174-8116	6K8 =	174-8144	68K =	174-8170	680K =	174-8197
68R =	174-8090	750R =	174-8118	7K5 =	174-8145	75K =	174-8171	750K =	174-8198
75R =	174-8091	820R =	174-8119	8K2 =	174-8146	82K =	174-8172	820K =	174-8199
82R =	174-8092	910R =	174-8120	9K1 =	174-8147	91K =	174-8173	910K =	174-8200
91R =	174-8093	1K =	174-8121	10K =	174-8148	100K =	174-8174	1M =	174-8201
100R =	174-8094								

	Order Code	Price Per Reel of 15000 1+	+	+
0201 Case Size	All Values			

0402 Case Size

H = 0.35, W = 1, D = 0.5mm, Voltage Overload 100V, Power Rating 0.1 W

Stocked in the following OHMIC Values:

10R =	174-8202	120R =	174-8217	1K2 =	174-8230	12K =	174-8243	120K =	174-8256
12R =	174-8203	150R =	174-8218	1K5 =	174-8231	15K =	174-8244	150K =	174-8258
15R =	174-8204	180R =	174-8219	1K8 =	174-8232	18K =	174-8246	180K =	174-8259
18R =	174-8205	220R =	174-8220	2K2 =	174-8234	22K =	174-8247	220K =	174-8260
22R =	174-8206	270R =	174-8222	2K7 =	174-8235	27K =	174-8248	270K =	174-8261
27R =	174-8207	330R =	174-8223	3K3 =	174-8236	33K =	174-8249	330K =	174-8262
33R =	174-8209	390R =	174-8224	3K9 =	174-8237	39K =	174-8250	390K =	174-8263
39R =	174-8211	470R =	174-8225	4K7 =	174-8238	47K =	174-8251	470K =	174-8264
47R =	174-8212	560R =	174-8226	5K6 =	174-8239	56K =	174-8252	560K =	174-8265
56R =	174-8213	680R =	174-8227	6K8 =	174-8240	68K =	174-8253	680K =	174-8266
68R =	174-8214	820R =	174-8228	8K2 =	174-8241	82K =	174-8254	820K =	174-8267
82R =	174-8215	1K =	174-8229	10K =	174-8242	100K =	174-8255	1M =	174-8268
100R =	174-8216								

	Order Code	Price Per Reel of 10000 1+	3+	5+
0402 Case Size	All Values			

0603 Case Size

H = 0.45, W = 1.6, D = 0.8mm, Voltage Overload 150V, Power Rating 0.1 W

Stocked in the following OHMIC Values:

10R =	174-8271	120R =	174-8285	1K2 =	174-8298	12K =	174-8311	120K =	174-8325
12R =	174-8272	150R =	174-8286	1K5 =	174-8299	15K =	174-8313	150K =	174-8326
15R =	174-8273	180R =	174-8287	1K8 =	174-8301	18K =	174-8314	180K =	174-8327
18R =	174-8274	220R =	174-8288	2K2 =	174-8302	22K =	174-8315	220K =	174-8328
22R =	174-8275	270R =	174-8289	2K7 =	174-8303	27K =	174-8316	270K =	174-8329
27R =	174-8276	330R =	174-8290	3K3 =	174-8304	33K =	174-8317	330K =	174-8330
33R =	174-8277	390R =	174-8291	3K9 =	174-8305	39K =	174-8318	390K =	174-8331
39R =	174-8278	470R =	174-8292	4K7 =	174-8306	47K =	174-8319	470K =	174-8332
47R =	174-8279	560R =	174-8293	5K6 =	174-8307	56K =	174-8320	560K =	174-8333
56R =	174-8280	680R =	174-8295	6K8 =	174-8308	68K =	174-8321	680K =	174-8334
68R =	174-8281	820R =	174-8296	8K2 =	174-8309	82K =	174-8322	820K =	174-8335
82R =	174-8283	1K =	174-8297	10K =	174-8310	100K =	174-8323	1M =	174-8337
100R =	174-8284								

ERJ Series -Thick Film Rchip - continued

SMD Full Reels - continued

	Order Code	Price Per Reel of 5000 1+	3+	5+
0603 Case Size	**All Values**			

0805 Case Size

H = 0.6, W = 2, D = 1.25mm, Voltage Overload 200V, Power Rating 0.125 W

Stocked in the following OHMIC Values:

10R = **174-8338**	120R = **174-8353**	1K2 = **174-8366**	12K = **174-8379**	120K = **174-8392**
12R = **174-8339**	150R = **174-8354**	1K5 = **174-8367**	15K = **174-8380**	150K = **174-8393**
15R = **174-8340**	180R = **174-8355**	1K8 = **174-8368**	18K = **174-8381**	180K = **174-8394**
18R = **174-8341**	220R = **174-8356**	2K2 = **174-8369**	22K = **174-8382**	220K = **174-8395**
22R = **174-8342**	270R = **174-8357**	2K7 = **174-8370**	27K = **174-8383**	270K = **174-8396**
27R = **174-8343**	330R = **174-8358**	3K3 = **174-8371**	33K = **174-8384**	330K = **174-8398**
33R = **174-8344**	390R = **174-8359**	3K9 = **174-8372**	39K = **174-8386**	390K = **174-8399**
39R = **174-8345**	470R = **174-8360**	4K7 = **174-8374**	47K = **174-8387**	470K = **174-8400**
47R = **174-8346**	560R = **174-8362**	5K6 = **174-8375**	56K = **174-8388**	560K = **174-8401**
56R = **174-8347**	680R = **174-8363**	6K8 = **174-8376**	68K = **174-8389**	680K = **174-8402**
68R = **174-8349**	820R = **174-8364**	8K2 = **174-8377**	82K = **174-8390**	820K = **174-8404**
82R = **174-8351**	1K = **174-8365**	10K = **174-8378**	100K = **174-8391**	1M = **174-8405**
100R = **174-8352**				

	Order Code	Price Per Reel of 5000 1+	3+	5+
0805 Case Size	**All Values**			

1206 Case Size

H = 0.6, W = 3.2, D = 1.6mm, Voltage Overload 400V, Power Rating 0.25 W

Stocked in the following OHMIC Values:

10R = **174-8406**	120R = **174-8420**	1K2 = **174-8433**	12K = **174-8447**	120K = **174-8460**
12R = **174-8407**	150R = **174-8421**	1K5 = **174-8434**	15K = **174-8448**	150K = **174-8461**
15R = **174-8408**	180R = **174-8422**	1K8 = **174-8435**	18K = **174-8449**	180K = **174-8462**
18R = **174-8409**	220R = **174-8423**	2K2 = **174-8436**	22K = **174-8450**	220K = **174-8463**
22R = **174-8410**	270R = **174-8424**	2K7 = **174-8437**	27K = **174-8451**	270K = **174-8465**
27R = **174-8411**	330R = **174-8425**	3K3 = **174-8438**	33K = **174-8453**	330K = **174-8466**
33R = **174-8412**	390R = **174-8426**	3K9 = **174-8441**	39K = **174-8454**	390K = **174-8467**
39R = **174-8413**	470R = **174-8428**	4K7 = **174-8442**	47K = **174-8455**	470K = **174-8468**
47R = **174-8414**	560R = **174-8429**	5K6 = **174-8443**	56K = **174-8456**	560K = **174-8469**
56R = **174-8416**	680R = **174-8430**	6K8 = **174-8444**	68K = **174-8457**	680K = **174-8470**
68R = **174-8417**	820R = **174-8431**	8K2 = **174-8445**	82K = **174-8458**	820K = **174-8471**
82R = **174-8418**	1K = **174-8432**	10K = **174-8446**	100K = **174-8459**	1M = **174-8472**
100R = **174-8419**				

542088

	Order Code	Price Per Reel of 5000 1+	3+	5+
1206 Case Size	**All Values**			

Surface Mount, Full Reels

WCR Series

Operating Temperature -55°C to +155°C
Tolerance = 0 ohm ± 1%
Tolerance = ≥1 ohm ± 1%

0402 Case Size

H = 0.35, W = 0.5, D = 1mm, Voltage rating 50V

Stocked in the following OHMIC Values:

0R = **170-1712**	100R = **170-1726**	1K2 = **170-1740**	12K = **170-1753**	120K = **170-1766**
10R = **170-1713**	120R = **170-1727**	1K5 = **170-1741**	15K = **170-1754**	150K = **170-1767**
12R = **170-1714**	150R = **170-1728**	1K8 = **170-1742**	18K = **170-1755**	180K = **170-1768**
15R = **170-1715**	180R = **170-1729**	2K2 = **170-1743**	22K = **170-1756**	220K = **170-1771**
18R = **170-1716**	220R = **170-1730**	2K7 = **170-1744**	27K = **170-1758**	270K = **170-1772**
22R = **170-1717**	270R = **170-1731**	3K3 = **170-1746**	33K = **170-1759**	330K = **170-1773**
27R = **170-1718**	330R = **170-1732**	3K9 = **170-1747**	39K = **170-1760**	390K = **170-1774**
33R = **170-1719**	390R = **170-1734**	4K7 = **170-1748**	47K = **170-1761**	470K = **170-1775**
39R = **170-1720**	470R = **170-1735**	5K6 = **170-1749**	56K = **170-1762**	560K = **170-1776**
47R = **170-1722**	560R = **170-1736**	6K8 = **170-1750**	68K = **170-1763**	680K = **170-1777**
56R = **170-1723**	680R = **170-1737**	8K2 = **170-1751**	82K = **170-1764**	820K = **170-1778**
68R = **170-1724**	820R = **170-1738**	10K = **170-1752**	100K = **170-1765**	1M = **170-1779**
82R = **170-1725**	1K = **170-1739**			

	Order Code	Price Per Reel of 10000 1+	3+	5+
0402 Case Size	**All Values**			

0603 Case Size

H = 0.5, W = 0.8, D = 1.6mm, Voltage rating 50V

Stocked in the following OHMIC Values:

0R = **170-1780**	68R = **170-1792**	560R = **170-1805**	4K7 = **170-1817**	39K = **170-1829**
10R = **170-1781**	82R = **170-1793**	680R = **170-1806**	5K6 = **170-1818**	47K = **170-1830**
12R = **170-1783**	100R = **170-1795**	820R = **170-1807**	6K8 = **170-1819**	56K = **170-1831**
15R = **170-1784**	120R = **170-1796**	1K = **170-1808**	8K2 = **170-1820**	68K = **170-1832**
18R = **170-1785**	150R = **170-1797**	1K2 = **170-1809**	10K = **170-1821**	82K = **170-1833**
22R = **170-1786**	180R = **170-1798**	1K5 = **170-1810**	12K = **170-1822**	100K = **170-1834**
27R = **170-1787**	220R = **170-1799**	1K8 = **170-1811**	15K = **170-1823**	120K = **170-1835**
33R = **170-1788**	270R = **170-1801**	2K2 = **170-1813**	18K = **170-1825**	150K = **170-1837**
39R = **170-1789**	330R = **170-1802**	2K7 = **170-1814**	22K = **170-1826**	180K = **170-1838**
47R = **170-1790**	390R = **170-1803**	3K3 = **170-1815**	27K = **170-1827**	220K = **170-1839**
56R = **170-1791**	470R = **170-1804**	3K9 = **170-1816**	33K = **170-1828**	270K = **170-1840**
330K = **170-1841**	470K = **170-1843**	680K = **170-1845**	820K = **170-1846**	1M = **170-1847**
390K = **170-1842**	560K = **170-1844**			

	Order Code	Price Per Reel of 5000 1+	3+	5+
0603 Case Size	**All Values**			

0805 Case Size

H = 0.5, W = 1.25, D = 2mm, Voltage rating 150V

Stocked in the following OHMIC Values:

0R = **170-1849**	100R = **170-1864**	1K2 = **170-1878**	12K = **170-1891**	120K = **170-1905**
10R = **170-1851**	120R = **170-1865**	1K5 = **170-1879**	15K = **170-1892**	150K = **170-1906**
12R = **170-1852**	150R = **170-1866**	1K8 = **170-1880**	18K = **170-1893**	180K = **170-1907**
15R = **170-1853**	180R = **170-1867**	2K2 = **170-1881**	22K = **170-1894**	220K = **170-1908**
18R = **170-1854**	220R = **170-1868**	2K7 = **170-1882**	27K = **170-1895**	270K = **170-1909**
22R = **170-1855**	270R = **170-1869**	3K3 = **170-1883**	33K = **170-1896**	330K = **170-1910**
27R = **170-1856**	330R = **170-1870**	3K9 = **170-1884**	39K = **170-1898**	390K = **170-1911**
33R = **170-1857**	390R = **170-1871**	4K7 = **170-1886**	47K = **170-1899**	470K = **170-1912**
39R = **170-1858**	470R = **170-1872**	5K6 = **170-1887**	56K = **170-1900**	560K = **170-1913**
47R = **170-1859**	560R = **170-1874**	6K8 = **170-1888**	68K = **170-1901**	680K = **170-1914**
56R = **170-1860**	680R = **170-1875**	8K2 = **170-1889**	82K = **170-1902**	820K = **170-1916**
68R = **170-1862**	820R = **170-1876**	10K = **170-1890**	100K = **170-1904**	1M = **170-1917**
82R = **170-1863**	1K = **170-1877**			

	Order Code	Price Per Reel of 5000 1+	3+	5+
0805 Case Size	**All Values**			

1206 Case Size

H = 0.55, W = 1.6, D = 3.2mm, Voltage rating 200V

Stocked in the following OHMIC Values:

0R = **170-1918**	100R = **170-1932**	1K2 = **170-1947**	12K = **170-1960**	120K = **170-1973**
10R = **170-1919**	120R = **170-1933**	1K5 = **170-1948**	15K = **170-1961**	150K = **170-1974**
12R = **170-1920**	150R = **170-1934**	1K8 = **170-1949**	18K = **170-1962**	180K = **170-1975**
15R = **170-1921**	180R = **170-1935**	2K2 = **170-1950**	22K = **170-1963**	220K = **170-1977**
18R = **170-1922**	220R = **170-1936**	2K7 = **170-1951**	27K = **170-1965**	270K = **170-1978**
22R = **170-1923**	270R = **170-1937**	3K3 = **170-1953**	33K = **170-1966**	330K = **170-1979**
27R = **170-1924**	330R = **170-1938**	3K9 = **170-1954**	39K = **170-1967**	390K = **170-1980**
33R = **170-1925**	390R = **170-1941**	4K7 = **170-1955**	47K = **170-1968**	470K = **170-1981**
39R = **170-1926**	470R = **170-1942**	5K6 = **170-1956**	56K = **170-1969**	560K = **170-1982**
47R = **170-1928**	560R = **170-1943**	6K8 = **170-1957**	68K = **170-1970**	680K = **170-1983**
56R = **170-1929**	680R = **170-1944**	8K2 = **170-1958**	82K = **170-1971**	820K = **170-1984**
68R = **170-1930**	820R = **170-1945**	10K = **170-1959**	100K = **170-1972**	1M = **170-1985**
82R = **170-1931**	1K = **170-1946**			

533820

	Order Code	Price Per Reel of 5000 1+	3+	5+
1206 Case Size	**All Values**			

CRCW Series FULL REEL

- High and repetitive surge and pulse loading applications
- Densely populated PCBs
- High Power Resistor
- Automotive standard AEC-Q200 rev.C qualified
- Double sided printed design
- Saves space on the PCB.
- Reduce stresses in PCBs caused by temperature changes.

Tolerance ± 1%
Temperature Coeff. ± 200ppm/°C

	0201	0402	0603	0805	1206	1210	2010	2512
Voltage	30V	50V	75V	150V	200V	200V	400V	500V
Power Rating	50mW	63mW	100mW	125mW	250mW	330mW	750mW	1W

0201 Case Size

Stocked in the following OHMIC Values:

Stocked in the following OHMIC Values:

0R **212-1349**	19R6 **212-1385**	36R5 **212-1420**	68R **212-1456**	133R **212-1491**
10R **212-1350**	20R **212-1386**	37R4 **212-1421**	68R1 **212-1457**	137R **212-1492**
10R2 **212-1351**	20R5 **212-1387**	38R3 **212-1422**	69R8 **212-1458**	140R **212-1493**
10R5 **212-1352**	21R **212-1388**	39R **212-1423**	71R5 **212-1459**	143R **212-1494**
10R7 **212-1353**	21R5 **212-1389**	39R2 **212-1424**	73R2 **212-1460**	147R **212-1495**
11R **212-1354**	22R **212-1390**	40R2 **212-1425**	75R **212-1461**	150R **212-1496**
11R3 **212-1355**	22R1 **212-1391**	41R2 **212-1427**	76R8 **212-1462**	154R **212-1497**
11R5 **212-1356**	22R6 **212-1392**	42R2 **212-1428**	78R7 **212-1464**	158R **212-1498**
11R8 **212-1357**	23R2 **212-1393**	43R **212-1429**	80R6 **212-1465**	160R **212-1500**
12R **212-1358**	23R7 **212-1394**	43R2 **212-1430**	82R **212-1466**	162R **212-1501**
12R1 **212-1361**	24R **212-1395**	44R2 **212-1431**	82R5 **212-1467**	165R **212-1502**
12R4 **212-1362**	24R3 **212-1397**	45R3 **212-1432**	84R5 **212-1468**	169R **212-1503**
12R7 **212-1363**	24R9 **212-1398**	46R4 **212-1433**	86R6 **212-1469**	174R **212-1504**
13R **212-1364**	25R5 **212-1399**	47R **212-1434**	88R7 **212-1470**	178R **212-1506**
13R3 **212-1365**	26R1 **212-1400**	47R5 **212-1435**	90R9 **212-1471**	180R **212-1507**
13R7 **212-1366**	26R7 **212-1401**	48R7 **212-1436**	91R **212-1472**	182R **212-1508**
14R **212-1367**	27R **212-1403**	49R9 **212-1437**	93R1 **212-1473**	187R **212-1509**
14R3 **212-1368**	27R4 **212-1404**	51R **212-1439**	95R3 **212-1474**	191R **212-1510**
14R7 **212-1369**	28R **212-1405**	51R1 **212-1441**	97R6 **212-1476**	196R **212-1511**
15R **212-1370**	28R7 **212-1406**	52R3 **212-1442**	100R **212-1477**	200R **212-1512**
15R4 **212-1371**	29R4 **212-1407**	53R6 **212-1443**	102R **212-1478**	205R **212-1513**
15R8 **212-1373**	30R **212-1408**	54R9 **212-1444**	105R **212-1479**	210R **212-1514**
16R **212-1374**	30R1 **212-1409**	56R **212-1445**	107R **212-1480**	215R **212-1515**
16R2 **212-1375**	30R9 **212-1410**	56R2 **212-1446**	110R **212-1481**	220R **212-1516**
16R5 **212-1376**	31R6 **212-1411**	57R6 **212-1447**	113R **212-1482**	221R **212-1518**
16R9 **212-1377**	32R4 **212-1412**	59R **212-1448**	115R **212-1483**	226R **212-1519**
17R4 **212-1378**	33R **212-1413**	60R4 **212-1449**	118R **212-1484**	232R **212-1520**
17R8 **212-1379**	33R2 **212-1415**	61R9 **212-1450**	120R **212-1485**	237R **212-1521**
18R **212-1380**	34R **212-1416**	62R **212-1452**	121R **212-1486**	240R **212-1522**
18R2 **212-1381**	34R8 **212-1417**	63R4 **212-1453**	124R **212-1488**	243R **212-1523**
18R7 **212-1382**	35R7 **212-1418**	64R9 **212-1454**	127R **212-1489**	249R **212-1524**
19R1 **212-1383**	36R **212-1419**	66R5 **212-1455**	130R **212-1490**	255R **212-1525**

RoHS Compliant / Non-compliant

261R 212-1526	2K21 212-1644	18K2 212-1762	154K 212-1878	1M24 212-1995
267R 212-1527	2K26 212-1646	18K7 212-1763	158K 212-1879	1M27 212-1996
270R 212-1528	2K32 212-1647	19K1 212-1764	160K 212-1880	1M3 212-1997
274R 212-1531	2K37 212-1648	19K6 212-1765	162K 212-1881	1M33 212-1998
280R 212-1532	2K4 212-1649	20K 212-1766	165K 212-1882	1M37 212-1999
287R 212-1533	2K43 212-1650	20K5 212-1767	169K 212-1883	1M4 212-2000
294R 212-1534	2K49 212-1651	21K 212-1768	174K 212-1884	1M43 212-2001
300R 212-1535	2K55 212-1652	21K5 212-1769	178K 212-1885	1M47 212-2002
301R 212-1536	2K61 212-1653	22K 212-1770	180K 212-1886	1M5 212-2003
309R 212-1537	2K67 212-1654	22K1 212-1771	182K 212-1887	1M54 212-2004
316R 212-1538	2K7 212-1655	22K6 212-1772	187K 212-1889	1M58 212-2006
324R 212-1539	2K74 212-1656	23K2 212-1774	191K 212-1891	1M6 212-2007
330R 212-1540	2K8 212-1658	23K7 212-1775	196K 212-1892	1M62 212-2008
332R 212-1541	2K87 212-1659	24K 212-1776	200K 212-1893	1M65 212-2009
340R 212-1543	2K94 212-1660	24K3 212-1777	205K 212-1894	1M69 212-2010
348R 212-1544	3K 212-1661	24K9 212-1778	210K 212-1895	1M74 212-2011
357R 212-1545	3K01 212-1662	25K5 212-1779	215K 212-1896	1M78 212-2012
360R 212-1546	3K09 212-1663	26K1 212-1780	220K 212-1897	1M8 212-2013
365R 212-1547	3K16 212-1664	26K7 212-1781	221K 212-1898	1M82 212-2014
374R 212-1548	3K24 212-1665	27K 212-1782	226K 212-1899	1M87 212-2015
383R 212-1549	3K3 212-1666	27K4 212-1783	232K 212-1900	1M91 212-2016
390R 212-1550	3K32 212-1667	28K 212-1784	237K 212-1901	1M96 212-2018
392R 212-1551	3K4 212-1668	28K7 212-1786	240K 212-1902	2M 212-2019
402R 212-1552	3K48 212-1671	29K4 212-1787	243K 212-1903	2M05 212-2020
412R 212-1553	3K57 212-1672	30K 212-1788	249K 212-1904	2M1 212-2021
422R 212-1555	3K6 212-1673	30K1 212-1789	255K 212-1905	2M15 212-2022
430R 212-1556	3K65 212-1674	30K9 212-1790	261K 212-1907	2M2 212-2023
432R 212-1557	3K74 212-1675	31K6 212-1791	267K 212-1908	2M21 212-2024
442R 212-1558	3K83 212-1676	32K4 212-1792	270K 212-1909	2M26 212-2025
453R 212-1559	3K9 212-1677	33K 212-1793	274K 212-1910	2M32 212-2026
464R 212-1560	3K92 212-1678	33K2 212-1794	280K 212-1911	2M37 212-2027
470R 212-1561	4K02 212-1679	34K 212-1795	287K 212-1912	2M4 212-2028
475R 212-1562	4K12 212-1680	34K8 212-1796	294K 212-1913	2M43 212-2031
487R 212-1563	4K22 212-1681	35K7 212-1798	300K 212-1914	2M49 212-2032
499R 212-1564	4K3 212-1683	36K 212-1799	301K 212-1915	2M55 212-2033
510R 212-1565	4K32 212-1684	36K5 212-1800	309K 212-1916	2M61 212-2034
511R 212-1567	4K42 212-1685	37K4 212-1801	316K 212-1917	2M67 212-2035
523R 212-1568	4K53 212-1686	38K3 212-1802	324K 212-1919	2M7 212-2036
536R 212-1569	4K64 212-1687	39K 212-1804	330K 212-1921	2M74 212-2037
549R 212-1570	4K7 212-1688	39K2 212-1805	332K 212-1922	2M8 212-2038
560R 212-1571	4K75 212-1689	40K2 212-1806	340K 212-1923	2M87 212-2039
562R 212-1572	4K87 212-1690	41K2 212-1807	348K 212-1924	2M94 212-2040
576R 212-1573	4K99 212-1691	42K2 212-1808	357K 212-1925	3M 212-2041
590R 212-1574	5K1 212-1692	43K 212-1809	360K 212-1926	3M01 212-2043
604R 212-1575	5K11 212-1693	43K2 212-1810	365K 212-1927	3M09 212-2044
619R 212-1576	5K23 212-1695	44K2 212-1811	374K 212-1928	3M16 212-2045
620R 212-1577	5K36 212-1696	45K3 212-1812	383K 212-1929	3M24 212-2046
634R 212-1579	5K49 212-1697	46K4 212-1813	390K 212-1930	3M3 212-2047
649R 212-1581	5K6 212-1698	47K 212-1814	392K 212-1932	3M32 212-2048
665R 212-1582	5K62 212-1699	47K5 212-1816	402K 212-1933	3M4 212-2049
680R 212-1583	5K76 212-1701	48K7 212-1817	412K 212-1934	3M48 212-2050
681R 212-1584	5K9 212-1702	49K9 212-1818	422K 212-1935	3M57 212-2051
698R 212-1585	6K04 212-1703	51K 212-1819	430K 212-1936	3M6 212-2052
715R 212-1586	6K19 212-1704	51K1 212-1820	432K 212-1937	3M65 212-2053
732R 212-1587	6K2 212-1705	52K3 212-1821	442K 212-1938	3M74 212-2055
750R 212-1588	6K34 212-1706	53K6 212-1822	453K 212-1939	3M83 212-2056
768R 212-1589	6K49 212-1707	54K9 212-1823	464K 212-1940	3M9 212-2057
787R 212-1590	6K65 212-1708	56K 212-1824	470K 212-1941	3M92 212-2058
806R 212-1592	6K8 212-1709	56K2 212-1825	475K 212-1942	4M02 212-2059
820R 212-1593	6K81 212-1710	57K6 212-1826	487K 212-1944	4M12 212-2060
825R 212-1594	6K98 212-1711	59K 212-1828	499K 212-1945	4M22 212-2061
845R 212-1595	7K15 212-1713	60K4 212-1829	510K 212-1946	4M3 212-2062
866R 212-1596	7K32 212-1714	61K9 212-1830	511K 212-1947	4M32 212-2063
887R 212-1597	7K5 212-1715	62K 212-1831	523K 212-1948	4M42 212-2064
909R 212-1598	7K68 212-1716	63K4 212-1832	536K 212-1949	4M53 212-2065
910R 212-1599	7K87 212-1717	64K9 212-1833	549K 212-1950	4M64 212-2067
931R 212-1600	8K06 212-1718	66K5 212-1834	560K 212-1951	4M7 212-2068
953R 212-1601	8K2 212-1719	68K 212-1835	562K 212-1952	4M75 212-2069
976R 212-1602	8K25 212-1720	68K1 212-1836	576K 212-1953	4M87 212-2070
1K 212-1603	8K45 212-1721	69K8 212-1837	590K 212-1954	4M99 212-2071
1K02 212-1604	8K66 212-1722	71K5 212-1838	604K 212-1956	5M1 212-2072
1K05 212-1605	8K87 212-1723	73K2 212-1841	619K 212-1957	5M11 212-2073
1K07 212-1606	9K09 212-1725	75K 212-1842	620K 212-1958	5M23 212-2074
1K1 212-1607	9K1 212-1726	76K8 212-1843	634K 212-1959	5M36 212-2075
1K13 212-1609	9K31 212-1727	78K7 212-1844	649K 212-1960	5M49 212-2076
1K15 212-1611	9K53 212-1728	80K6 212-1845	665K 212-1961	5M6 212-2077
1K18 212-1612	9K76 212-1729	82K 212-1846	680K 212-1962	5M62 212-2079
1K2 212-1613	10K 212-1730	82K5 212-1847	681K 212-1963	5M76 212-2081
1K21 212-1614	10K2 212-1731	84K5 212-1848	698K 212-1964	5M9 212-2082
1K24 212-1615	10K5 212-1732	86K6 212-1849	715K 212-1965	6M04 212-2083
1K27 212-1616	10K7 212-1733	88K7 212-1850	732K 212-1966	6M19 212-2084
1K3 212-1617	11K 212-1734	90K9 212-1851	750K 212-1968	6M2 212-2085
1K33 212-1618	11K3 212-1735	91K 212-1853	768K 212-1969	6M34 212-2086
1K37 212-1619	11K5 212-1737	93K1 212-1854	787K 212-1970	6M49 212-2087
1K4 212-1620	11K8 212-1738	95K3 212-1855	806K 212-1971	6M65 212-2088
1K43 212-1622	12K 212-1739	97K6 212-1856	820K 212-1972	6M8 212-2089
1K47 212-1623	12K1 212-1740	100K 212-1857	825K 212-1973	6M81 212-2090
1K5 212-1624	12K4 212-1741	102K 212-1858	845K 212-1974	6M98 212-2092
1K54 212-1625	12K7 212-1742	105K 212-1859	866K 212-1975	7M15 212-2093
1K58 212-1626	13K 212-1743	107K 212-1860	887K 212-1976	7M32 212-2094
1K6 212-1627	13K3 212-1744	110K 212-1861	909K 212-1977	7M5 212-2095
1K62 212-1628	13K7 212-1745	113K 212-1862	910K 212-1978	7M68 212-2096
1K65 212-1629	14K 212-1746	115K 212-1863	931K 212-1981	7M87 212-2097
1K69 212-1630	14K3 212-1747	118K 212-1865	953K 212-1982	8M06 212-2098
1K74 212-1631	14K7 212-1749	120K 212-1866	976K 212-1983	8M2 212-2099
1K78 212-1632	15K 212-1751	121K 212-1867	1M 212-1984	8M25 212-2100
1K8 212-1634	15K4 212-1752	124K 212-1868	1M02 212-1985	8M45 212-2101
1K82 212-1635	15K8 212-1753	127K 212-1869	1M05 212-1986	8M66 212-2102
1K87 212-1636	16K 212-1754	130K 212-1870	1M07 212-1987	8M87 212-2103
1K91 212-1637	16K2 212-1755	133K 212-1871	1M1 212-1988	9M09 212-2104
1K96 212-1638	16K5 212-1756	137K 212-1872	1M13 212-1989	9M1 212-2105
2K 212-1639	16K9 212-1757	140K 212-1873	1M15 212-1990	9M31 212-2106
2K05 212-1640	17K4 212-1758	143K 212-1874	1M18 212-1991	9M53 212-2107
2K1 212-1641	17K8 212-1759	147K 212-1875	1M2 212-1993	9M76 212-2109
2K15 212-1642	18K 212-1760	150K 212-1877	1M21 212-1994	10M 212-2111
2K2 212-1643				

0R = 212-0548	10R2 = 212-0553	10R7 = 212-0556	11R3 = 212-0559	11R8 = 212-0561
10R = 212-0552	10R5 = 212-0555	11R = 212-0557	11R5 = 212-0560	12R = 212-0563

12R1 = 212-0564	107R = 212-0695	931R = 212-0836	8K25 = 212-0958	73K2 = 212-1078
12R4 = 212-0565	110R = 212-0696	953R = 212-0837	8K45 = 212-0959	75K = 212-1079
12R7 = 212-0566	113R = 212-0697	976R = 212-0838	8K66 = 212-0960	76K8 = 212-1080
13R = 212-0567	115R = 212-0698	1K = 212-0839	8K87 = 212-0961	78K7 = 212-1081
13R3 = 212-0568	118R = 212-0699	1K02 = 212-0840	9K09 = 212-0962	80K6 = 212-1082
13R7 = 212-0569	120R = 212-0700	1K05 = 212-0842	9K1 = 212-0964	82K = 212-1083
14R = 212-0570	121R = 212-0701	1K07 = 212-0843	9K31 = 212-0965	82K5 = 212-1084
14R3 = 212-0571	124R = 212-0702	1K1 = 212-0844	9K53 = 212-0966	84K5 = 212-1085
14R7 = 212-0572	127R = 212-0703	1K13 = 212-0845	9K76 = 212-0967	86K6 = 212-1087
15R = 212-0573	130R = 212-0704	1K15 = 212-0846	10K = 212-0968	88K7 = 212-1088
15R4 = 212-0575	133R = 212-0705	1K18 = 212-0848	10K2 = 212-0969	90K9 = 212-1089
15R8 = 212-0576	137R = 212-0708	1K2 = 212-0850	10K5 = 212-0970	91K = 212-1090
16R = 212-0577	140R = 212-0709	1K21 = 212-0851	10K7 = 212-0971	93K1 = 212-1091
16R2 = 212-0578	143R = 212-0712	1K24 = 212-0852	11K = 212-0972	95K3 = 212-1092
16R5 = 212-0579	147R = 212-0714	1K27 = 212-0853	11K3 = 212-0973	97K6 = 212-1093
16R9 = 212-0580	150R = 212-0716	1K3 = 212-0854	11K5 = 212-0974	100K = 212-1094
17R4 = 212-0581	154R = 212-0721	1K33 = 212-0855	11K8 = 212-0976	102K = 212-1095
17R8 = 212-0582	158R = 212-0724	1K37 = 212-0856	12K = 212-0977	105K = 212-1096
18R = 212-0584	160R = 212-0725	1K4 = 212-0857	12K1 = 212-0978	107K = 212-1097
18R2 = 212-0585	162R = 212-0726	1K43 = 212-0858	12K4 = 212-0979	110K = 212-1099
18R7 = 212-0587	165R = 212-0727	1K47 = 212-0861	12K7 = 212-0980	113K = 212-1100
19R1 = 212-0588	169R = 212-0728	1K5 = 212-0862	13K = 212-0981	115K = 212-1101
19R6 = 212-0589	174R = 212-0729	1K54 = 212-0863	13K3 = 212-0982	118K = 212-1102
20R = 212-0590	178R = 212-0731	1K58 = 212-0864	13K7 = 212-0983	120K = 212-1103
20R5 = 212-0591	180R = 212-0733	1K6 = 212-0865	14K = 212-0984	121K = 212-1105
21R = 212-0592	182R = 212-0734	1K62 = 212-0866	14K3 = 212-0985	124K = 212-1106
21R5 = 212-0593	187R = 212-0735	1K65 = 212-0867	14K7 = 212-0986	127K = 212-1107
22R = 212-0594	191R = 212-0736	1K69 = 212-0868	15K = 212-0988	130K = 212-1108
22R1 = 212-0595	196R = 212-0737	1K74 = 212-0869	15K4 = 212-0989	133K = 212-1109
22R6 = 212-0596	200R = 212-0738	1K78 = 212-0870	15K8 = 212-0990	137K = 212-1110
23R2 = 212-0597	205R = 212-0739	1K8 = 212-0871	16K = 212-0991	140K = 212-1111
23R7 = 212-0599	210R = 212-0740	1K82 = 212-0873	16K2 = 212-0992	143K = 212-1112
24R = 212-0600	215R = 212-0741	1K87 = 212-0874	16K5 = 212-0993	147K = 212-1113
24R3 = 212-0601	220R = 212-0742	1K91 = 212-0875	16K9 = 212-0994	150K = 212-1114
24R9 = 212-0602	221R = 212-0743	1K96 = 212-0876	17K4 = 212-0995	154K = 212-1115
25R5 = 212-0603	226R = 212-0745	2K = 212-0877	17K8 = 212-0996	158K = 212-1117
26R1 = 212-0605	232R = 212-0746	2K05 = 212-0878	18K = 212-0997	160K = 212-1118
26R7 = 212-0606	237R = 212-0748	2K1 = 212-0879	18K2 = 212-0998	162K = 212-1119
27R = 212-0607	240R = 212-0749	2K15 = 212-0880	18K7 = 212-1000	165K = 212-1120
27R4 = 212-0608	243R = 212-0750	2K2 = 212-0881	19K1 = 212-1002	169K = 212-1121
28R = 212-0609	249R = 212-0751	2K21 = 212-0882	19K6 = 212-1003	174K = 212-1122
28R7 = 212-0610	255R = 212-0752	2K26 = 212-0883	20K = 212-1004	178K = 212-1123
29R4 = 212-0611	261R = 212-0753	2K32 = 212-0885	20K5 = 212-1005	180K = 212-1124
30R = 212-0612	267R = 212-0754	2K37 = 212-0886	21K = 212-1006	182K = 212-1125
30R1 = 212-0613	270R = 212-0755	2K4 = 212-0887	21K5 = 212-1007	187K = 212-1126
30R9 = 212-0614	274R = 212-0757	2K43 = 212-0888	22K = 212-1008	191K = 212-1127
31R6 = 212-0615	280R = 212-0758	2K49 = 212-0889	22K1 = 212-1009	196K = 212-1129
32R4 = 212-0618	287R = 212-0759	2K55 = 212-0890	22K6 = 212-1010	200K = 212-1131
33R = 212-0619	294R = 212-0760	2K61 = 212-0891	23K2 = 212-1011	205K = 212-1132
33R2 = 212-0621	300R = 212-0761	2K67 = 212-0892	23K7 = 212-1012	210K = 212-1133
34R = 212-0622	301R = 212-0762	2K7 = 212-0893	24K = 212-1014	215K = 212-1134
34R8 = 212-0623	309R = 212-0763	2K74 = 212-0894	24K3 = 212-1015	220K = 212-1135
35R7 = 212-0624	316R = 212-0764	2K8 = 212-0895	24K9 = 212-1016	221K = 212-1136
36R = 212-0625	324R = 212-0765	2K87 = 212-0897	25K5 = 212-1017	226K = 212-1137
36R5 = 212-0626	330R = 212-0766	2K94 = 212-0898	26K1 = 212-1018	232K = 212-1138
37R4 = 212-0627	332R = 212-0767	3K = 212-0899	26K7 = 212-1019	237K = 212-1139
38R3 = 212-0629	340R = 212-0769	3K01 = 212-0900	27K = 212-1020	240K = 212-1140
39R = 212-0631	348R = 212-0771	3K09 = 212-0901	27K4 = 212-1021	243K = 212-1142
39R2 = 212-0632	357R = 212-0772	3K16 = 212-0903	28K = 212-1022	249K = 212-1143
40R2 = 212-0633	360R = 212-0773	3K24 = 212-0904	28K7 = 212-1023	255K = 212-1144
41R2 = 212-0634	365R = 212-0774	3K3 = 212-0905	29K4 = 212-1024	261K = 212-1145
42R2 = 212-0635	374R = 212-0775	3K32 = 212-0906	30K = 212-1026	267K = 212-1146
43R = 212-0636	383R = 212-0776	3K4 = 212-0907	30K1 = 212-1027	270K = 212-1147
43R2 = 212-0638	390R = 212-0778	3K48 = 212-0908	30K9 = 212-1028	274K = 212-1148
44R2 = 212-0639	392R = 212-0779	3K57 = 212-0909	31K6 = 212-1029	280K = 212-1149
45R3 = 212-0640	402R = 212-0780	3K6 = 212-0910	32K4 = 212-1030	287K = 212-1150
46R4 = 212-0643	412R = 212-0782	3K65 = 212-0911	33K = 212-1031	294K = 212-1151
47R = 212-0644	422R = 212-0783	3K74 = 212-0912	33K2 = 212-1032	300K = 212-1152
47R5 = 212-0647	430R = 212-0784	3K83 = 212-0913	34K = 212-1033	301K = 212-1154
48R7 = 212-0649	432R = 212-0785	3K9 = 212-0915	34K8 = 212-1034	309K = 212-1155
49R9 = 212-0650	442R = 212-0786	3K92 = 212-0916	35K7 = 212-1035	316K = 212-1156
51R = 212-0651	453R = 212-0787	4K02 = 212-0917	36K = 212-1036	324K = 212-1157
51R1 = 212-0652	464R = 212-0788	4K12 = 212-0918	36K5 = 212-1038	330K = 212-1158
52R3 = 212-0654	470R = 212-0789	4K22 = 212-0919	37K4 = 212-1039	332K = 212-1159
53R6 = 212-0655	475R = 212-0791	4K3 = 212-0920	38K3 = 212-1040	340K = 212-1160
54R9 = 212-0657	487R = 212-0792	4K32 = 212-0921	39K = 212-1041	348K = 212-1161
56R = 212-0658	499R = 212-0794	4K42 = 212-0922	39K2 = 212-1042	357K = 212-1162
56R2 = 212-0659	510R = 212-0797	4K53 = 212-0923	40K2 = 212-1043	360K = 212-1163
57R6 = 212-0660	511R = 212-0798	4K64 = 212-0924	41K2 = 212-1044	365K = 212-1164
59R = 212-0661	523R = 212-0799	4K7 = 212-0925	42K2 = 212-1045	374K = 212-1166
60R4 = 212-0662	536R = 212-0801	4K75 = 212-0927	43K = 212-1046	383K = 212-1167
61R9 = 212-0663	549R = 212-0802	4K87 = 212-0928	43K2 = 212-1047	390K = 212-1168
62R = 212-0664	560R = 212-0803	4K99 = 212-0929	44K2 = 212-1048	392K = 212-1169
63R4 = 212-0666	562R = 212-0804	5K1 = 212-0930	45K3 = 212-1051	402K = 212-1170
64R9 = 212-0667	576R = 212-0805	5K11 = 212-0931	46K4 = 212-1052	412K = 212-1171
66R5 = 212-0668	590R = 212-0806	5K23 = 212-0932	47K = 212-1053	422K = 212-1172
68R = 212-0669	604R = 212-0807	5K36 = 212-0933	47K5 = 212-1054	430K = 212-1173
68R1 = 212-0670	619R = 212-0808	5K49 = 212-0934	48K7 = 212-1055	432K = 212-1174
69R8 = 212-0671	620R = 212-0809	5K6 = 212-0935	49K9 = 212-1056	442K = 212-1175
71R5 = 212-0672	634R = 212-0810	5K62 = 212-0936	51K = 212-1057	453K = 212-1176
73R2 = 212-0673	649R = 212-0813	5K76 = 212-0937	51K1 = 212-1058	464K = 212-1178
75R = 212-0674	665R = 212-0814	5K9 = 212-0939	52K3 = 212-1059	470K = 212-1179
76R8 = 212-0675	680R = 212-0816	6K04 = 212-0941	53K6 = 212-1060	475K = 212-1180
78R7 = 212-0676	681R = 212-0817	6K19 = 212-0942	54K9 = 212-1061	487K = 212-1181
80R6 = 212-0678	698R = 212-0818	6K2 = 212-0943	56K = 212-1063	499K = 212-1182
82R = 212-0679	715R = 212-0819	6K34 = 212-0944	56K2 = 212-1064	510K = 212-1183
82R5 = 212-0680	732R = 212-0820	6K49 = 212-0945	57K6 = 212-1065	511K = 212-1184
84R5 = 212-0681	750R = 212-0821	6K65 = 212-0946	59K = 212-1066	523K = 212-1185
86R6 = 212-0682	768R = 212-0822	6K8 = 212-0947	60K4 = 212-1067	536K = 212-1186
88R7 = 212-0683	787R = 212-0826	6K81 = 212-0948	61K9 = 212-1068	549K = 212-1187
90R9 = 212-0684	806R = 212-0827	6K98 = 212-0949	62K = 212-1069	560K = 212-1188
91R = 212-0685	820R = 212-0828	7K15 = 212-0950	63K4 = 212-1070	562K = 212-1191
93R1 = 212-0686	825R = 212-0829	7K32 = 212-0952	64K9 = 212-1071	576K = 212-1192
95R3 = 212-0688	845R = 212-0830	7K5 = 212-0953	66K5 = 212-1072	590K = 212-1193
97R6 = 212-0691	866R = 212-0831	7K68 = 212-0954	68K = 212-1073	604K = 212-1194
100R = 212-0692	887R = 212-0832	7K87 = 212-0955	68K1 = 212-1075	619K = 212-1195
102R = 212-0693	909R = 212-0833	8K06 = 212-0956	69K8 = 212-1076	620K = 212-1196
105R = 212-0694	910R = 212-0834	8K2 = 212-0957	71K5 = 212-1077	634K = 212-1197

CRCW Series FULL REEL - continued

0402 Case Size - continued

649K =	212-1198	1M18 =	212-1229	2M1 =	212-1259	3M57 =	212-1289	5M9 =	212-1319
665K =	212-1199	1M2 =	212-1230	2M15 =	212-1260	3M6 =	212-1290	6M04 =	212-1320
680K =	212-1200	1M21 =	212-1231	2M2 =	212-1261	3M65 =	212-1291	6M19 =	212-1321
681K =	212-1201	1M24 =	212-1233	2M21 =	212-1262	3M74 =	212-1292	6M2 =	212-1322
698K =	212-1202	1M27 =	212-1234	2M26 =	212-1263	3M83 =	212-1294	6M34 =	212-1324
715K =	212-1203	1M3 =	212-1235	2M32 =	212-1264	3M9 =	212-1295	6M49 =	212-1325
732K =	212-1204	1M33 =	212-1236	2M37 =	212-1265	3M92 =	212-1296	6M65 =	212-1326
750K =	212-1205	1M37 =	212-1237	2M4 =	212-1266	4M02 =	212-1297	6M8 =	212-1327
768K =	212-1206	1M4 =	212-1238	2M43 =	212-1267	4M12 =	212-1298	6M81 =	212-1328
787K =	212-1208	1M43 =	212-1239	2M49 =	212-1269	4M22 =	212-1299	6M98 =	212-1329
806K =	212-1209	1M47 =	212-1240	2M55 =	212-1271	4M3 =	212-1301	7M15 =	212-1330
820K =	212-1210	1M5 =	212-1241	2M61 =	212-1272	4M32 =	212-1302	7M32 =	212-1331
825K =	212-1211	1M54 =	212-1242	2M67 =	212-1273	4M42 =	212-1303	7M5 =	212-1332
845K =	212-1212	1M58 =	212-1243	2M7 =	212-1274	4M53 =	212-1304	7M68 =	212-1333
866K =	212-1213	1M6 =	212-1245	2M74 =	212-1275	4M64 =	212-1305	7M87 =	212-1334
887K =	212-1214	1M62 =	212-1246	2M8 =	212-1276	4M7 =	212-1306	8M06 =	212-1336
909K =	212-1215	1M65 =	212-1247	2M87 =	212-1277	4M75 =	212-1307	8M2 =	212-1337
910K =	212-1216	1M69 =	212-1248	2M94 =	212-1278	4M87 =	212-1308	8M25 =	212-1338
931K =	212-1217	1M74 =	212-1249	3M =	212-1279	4M99 =	212-1309	8M45 =	212-1339
953K =	212-1218	1M78 =	212-1250	3M01 =	212-1280	5M1 =	212-1310	8M66 =	212-1340
976K =	212-1221	1M8 =	212-1251	3M09 =	212-1282	5M11 =	212-1312	8M87 =	212-1341
1M =	212-1222	1M82 =	212-1252	3M16 =	212-1283	5M23 =	212-1313	9M09 =	212-1342
1M02 =	212-1223	1M87 =	212-1253	3M24 =	212-1284	5M36 =	212-1314	9M1 =	212-1343
1M05 =	212-1224	1M91 =	212-1254	3M3 =	212-1285	5M49 =	212-1315	9M31 =	212-1344
1M07 =	212-1225	1M96 =	212-1255	3M32 =	212-1286	5M6 =	212-1316	9M53 =	212-1345
1M1 =	212-1226	2M =	212-1257	3M4 =	212-1287	5M62 =	212-1317	9M76 =	212-1346
1M13 =	212-1227	2M05 =	212-1258	3M48 =	212-1288	5M76 =	212-1318	10M =	212-1348
1M15 =	212-1228								

	Price Each				
Order Code	10K+	+	+	+	+
All Values ●					

0402 Case Size

0603 Case Size

Stocked in the following OHMIC Values:

0R	212-2112	37R4	212-2184	140R	212-2256	510R	212-2328	1K96	212-2400
10R	212-2113	38R3	212-2185	143R	212-2257	511R	212-2329	2K	212-2401
10R2	212-2114	39R	212-2186	147R	212-2258	523R	212-2330	2K05	212-2402
10R5	212-2115	39R2	212-2187	150R	212-2259	536R	212-2331	2K1	212-2403
10R7	212-2116	40R2	212-2188	154R	212-2260	549R	212-2332	2K15	212-2404
11R	212-2117	41R2	212-2189	158R	212-2262	560R	212-2333	2K2	212-2405
11R3	212-2118	42R2	212-2190	160R	212-2263	562R	212-2334	2K21	212-2407
11R5	212-2119	43R	212-2191	162R	212-2264	576R	212-2335	2K26	212-2408
11R8	212-2120	43R2	212-2192	165R	212-2265	590R	212-2336	2K32	212-2409
12R	212-2122	44R2	212-2193	169R	212-2266	604R	212-2337	2K37	212-2410
12R1	212-2123	45R3	212-2195	174R	212-2267	619R	212-2338	2K4	212-2411
12R4	212-2124	46R4	212-2196	178R	212-2268	620R	212-2341	2K43	212-2412
12R7	212-2125	47R	212-2197	180R	212-2269	634R	212-2342	2K49	212-2413
13R	212-2126	47R5	212-2198	182R	212-2270	649R	212-2343	2K55	212-2414
13R3	212-2127	48R7	212-2199	187R	212-2271	665R	212-2344	2K61	212-2415
13R7	212-2128	49R9	212-2201	191R	212-2272	680R	212-2345	2K67	212-2416
14R	212-2129	51R	212-2202	196R	212-2274	681R	212-2346	2K7	212-2417
14R3	212-2130	51R1	212-2203	200R	212-2275	698R	212-2347	2K74	212-2419
14R7	212-2131	52R3	212-2204	205R	212-2276	715R	212-2348	2K8	212-2421
15R	212-2132	53R6	212-2205	210R	212-2277	732R	212-2349	2K87	212-2422
15R4	212-2134	54R9	212-2206	215R	212-2278	750R	212-2350	2K94	212-2423
15R8	212-2135	56R	212-2207	220R	212-2279	768R	212-2351	3K	212-2424
16R	212-2136	56R2	212-2208	221R	212-2280	787R	212-2353	3K01	212-2425
16R2	212-2137	57R6	212-2209	226R	212-2281	806R	212-2354	3K09	212-2426
16R5	212-2138	59R	212-2210	232R	212-2282	820R	212-2355	3K16	212-2427
16R9	212-2139	60R4	212-2211	237R	212-2283	825R	212-2356	3K24	212-2428
17R4	212-2140	61R9	212-2213	240R	212-2284	845R	212-2357	3K3	212-2429
17R8	212-2141	62R	212-2214	243R	212-2286	866R	212-2358	3K32	212-2430
18R	212-2142	63R4	212-2215	249R	212-2287	887R	212-2359	3K4	212-2432
18R2	212-2143	64R9	212-2216	255R	212-2288	909R	212-2360	3K48	212-2433
18R7	212-2144	66R5	212-2217	261R	212-2289	910R	212-2361	3K57	212-2434
19R1	212-2146	68R	212-2218	267R	212-2290	931R	212-2362	3K6	212-2435
19R6	212-2147	68R1	212-2219	270R	212-2291	953R	212-2363	3K65	212-2436
20R	212-2148	69R8	212-2220	274R	212-2292	976R	212-2365	3K74	212-2437
20R5	212-2149	71R5	212-2221	280R	212-2293	1K	212-2366	3K83	212-2438
21R	212-2150	73R2	212-2222	287R	212-2294	1K02	212-2367	3K9	212-2439
21R5	212-2151	75R	212-2223	294R	212-2295	1K05	212-2368	3K92	212-2440
22R	212-2152	76R8	212-2225	300R	212-2296	1K07	212-2369	4K02	212-2441
22R1	212-2153	78R7	212-2226	301R	212-2298	1K1	212-2370	4K12	212-2442
22R6	212-2154	80R6	212-2227	309R	212-2299	1K13	212-2371	4K22	212-2444
23R2	212-2155	82R	212-2228	316R	212-2300	1K15	212-2372	4K3	212-2445
23R7	212-2156	82R5	212-2229	324R	212-2301	1K18	212-2373	4K32	212-2446
24R	212-2158	84R5	212-2230	330R	212-2302	1K2	212-2374	4K42	212-2447
24R3	212-2159	86R6	212-2231	332R	212-2304	1K21	212-2375	4K53	212-2448
24R9	212-2160	88R7	212-2232	340R	212-2305	1K24	212-2377	4K64	212-2449
25R5	212-2161	90R9	212-2233	348R	212-2306	1K27	212-2378	4K7	212-2450
26R1	212-2162	91R	212-2234	357R	212-2307	1K3	212-2379	4K75	212-2451
26R7	212-2163	93R1	212-2235	360R	212-2308	1K33	212-2380	4K87	212-2452
27R	212-2164	95R3	212-2237	365R	212-2309	1K37	212-2381	4K99	212-2453
27R4	212-2165	97R6	212-2238	374R	212-2310	1K4	212-2382	5K1	212-2454
28R	212-2166	100R	212-2239	383R	212-2311	1K43	212-2383	5K11	212-2456
28R7	212-2167	102R	212-2240	390R	212-2312	1K47	212-2384	5K23	212-2457
29R4	212-2168	105R	212-2241	392R	212-2313	1K5	212-2385	5K36	212-2458
30R	212-2171	107R	212-2242	402R	212-2314	1K54	212-2386	5K49	212-2459
30R1	212-2172	110R	212-2243	412R	212-2316	1K58	212-2387	5K6	212-2460
30R9	212-2173	113R	212-2244	422R	212-2317	1K6	212-2389	5K62	212-2461
31R6	212-2174	115R	212-2245	430R	212-2318	1K62	212-2391	5K76	212-2462
32R4	212-2175	118R	212-2246	432R	212-2319	1K65	212-2392	5K9	212-2463
33R	212-2176	120R	212-2247	442R	212-2320	1K69	212-2393	6K04	212-2464
33R2	212-2177	121R	212-2249	453R	212-2321	1K74	212-2394	6K19	212-2465
34R	212-2178	124R	212-2251	464R	212-2322	1K78	212-2395	6K2	212-2466
34R8	212-2179	127R	212-2252	470R	212-2323	1K8	212-2396	6K34	212-2468
35R7	212-2180	130R	212-2253	475R	212-2324	1K82	212-2397	6K49	212-2469
36R	212-2181	133R	212-2254	487R	212-2325	1K87	212-2398	6K65	212-2470
36R5	212-2183	137R	212-2255	499R	212-2326	1K91	212-2399	6K8	212-2471
6K81	212-2472	31K6	212-2553	133K	212-2633	560K	212-2713	2M49	212-2794
6K98	212-2473	32K4	212-2554	137K	212-2634	562K	212-2714	2M55	212-2795
7K15	212-2474	33K	212-2555	140K	212-2635	576K	212-2715	2M61	212-2796
7K32	212-2475	33K2	212-2556	143K	212-2636	590K	212-2717	2M67	212-2797
7K5	212-2476	34K	212-2557	147K	212-2638	604K	212-2718	2M7	212-2798
7K68	212-2477	34K8	212-2559	150K	212-2639	619K	212-2719	2M74	212-2799
7K87	212-2478	35K7	212-2561	154K	212-2640	620K	212-2720	2M8	212-2800
8K06	212-2481	36K	212-2562	158K	212-2641	634K	212-2721	2M87	212-2801
8K2	212-2482	36K5	212-2563	160K	212-2642	649K	212-2722	2M94	212-2802
8K25	212-2483	37K4	212-2564	162K	212-2643	665K	212-2723	3M	212-2803
8K45	212-2484	38K3	212-2565	165K	212-2644	680K	212-2724	3M01	212-2804
8K66	212-2485	39K	212-2566	169K	212-2645	681K	212-2725	3M09	212-2805
8K87	212-2486	39K2	212-2567	174K	212-2646	698K	212-2726	3M16	212-2806
9K09	212-2487	40K2	212-2568	178K	212-2647	715K	212-2727	3M24	212-2808
9K1	212-2488	41K2	212-2569	180K	212-2648	732K	212-2729	3M3	212-2809
9K31	212-2489	42K2	212-2570	182K	212-2651	750K	212-2731	3M32	212-2810
9K53	212-2490	43K	212-2572	187K	212-2652	768K	212-2732	3M4	212-2811
9K76	212-2491	43K2	212-2573	191K	212-2653	787K	212-2733	3M48	212-2812
10K	212-2493	44K2	212-2574	196K	212-2654	806K	212-2734	3M57	212-2813
10K2	212-2494	45K3	212-2575	200K	212-2655	820K	212-2735	3M6	212-2814
10K5	212-2495	46K4	212-2576	205K	212-2656	825K	212-2736	3M65	212-2815
10K7	212-2496	47K	212-2577	210K	212-2657	845K	212-2737	3M74	212-2816
11K	212-2497	47K5	212-2578	215K	212-2658	866K	212-2738	3M83	212-2817
11K3	212-2498	48K7	212-2579	220K	212-2659	887K	212-2739	3M9	212-2818
11K5	212-2499	49K9	212-2580	221K	212-2660	909K	212-2740	3M92	212-2821
11K8	212-2500	51K	212-2581	226K	212-2661	910K	212-2742	4M02	212-2822
12K	212-2501	51K1	212-2582	232K	212-2663	931K	212-2743	4M12	212-2823
12K1	212-2502	52K3	212-2584	237K	212-2664	953K	212-2744	4M22	212-2824
12K4	212-2503	53K6	212-2585	240K	212-2665	976K	212-2745	4M3	212-2825
12K7	212-2504	54K9	212-2586	243K	212-2666	1M	212-2746	4M32	212-2826
13K	212-2505	56K	212-2587	249K	212-2667	1M02	212-2747	4M42	212-2827
13K3	212-2506	56K2	212-2588	255K	212-2668	1M05	212-2748	4M53	212-2828
13K7	212-2507	57K6	212-2589	261K	212-2669	1M07	212-2749	4M64	212-2829
14K	212-2508	59K	212-2590	267K	212-2670	1M1	212-2750	4M7	212-2830
14K3	212-2511	60K4	212-2591	270K	212-2671	1M13	212-2751	4M75	212-2831
14K7	212-2512	61K9	212-2592	274K	212-2672	1M15	212-2752	4M87	212-2833
15K	212-2513	62K	212-2593	280K	212-2673	1M18	212-2754	4M99	212-2834
15K4	212-2514	63K4	212-2594	287K	212-2675	1M2	212-2755	5M1	212-2835
15K8	212-2515	64K9	212-2596	294K	212-2676	1M21	212-2756	5M11	212-2836
16K	212-2516	66K5	212-2597	300K	212-2677	1M24	212-2757	5M23	212-2837
16K2	212-2517	68K	212-2598	301K	212-2678	1M27	212-2758	5M36	212-2838
16K5	212-2518	68K1	212-2599	309K	212-2679	1M3	212-2759	5M49	212-2839
16K9	212-2519	69K8	212-2600	316K	212-2680	1M33	212-2760	5M6	212-2840
17K4	212-2520	71K5	212-2602	324K	212-2681	1M37	212-2761	5M62	212-2841
17K8	212-2521	73K2	212-2603	330K	212-2682	1M4	212-2762	5M76	212-2842
18K	212-2523	75K	212-2604	332K	212-2683	1M43	212-2763	5M9	212-2843
18K2	212-2524	76K8	212-2605	340K	212-2684	1M47	212-2764	6M04	212-2845
18K7	212-2525	78K7	212-2606	348K	212-2685	1M5	212-2766	6M19	212-2846
19K1	212-2526	80K6	212-2607	357K	212-2687	1M54	212-2767	6M2	212-2847
19K6	212-2527	82K	212-2608	360K	212-2688	1M58	212-2768	6M34	212-2848
20K	212-2528	82K5	212-2609	365K	212-2689	1M6	212-2769	6M49	212-2849
20K5	212-2529	84K5	212-2610	374K	212-2690	1M62	212-2770	6M65	212-2850
21K	212-2530	86K6	212-2611	383K	212-2691	1M65	212-2771	6M8	212-2851
21K5	212-2531	88K7	212-2612	390K	212-2692	1M69	212-2772	6M81	212-2852
22K	212-2532	90K9	212-2614	392K	212-2693	1M74	212-2773	6M98	212-2853
22K1	212-2533	91K	212-2615	402K	212-2694	1M78	212-2774	7M15	212-2854
22K6	212-2535	93K1	212-2616	412K	212-2695	1M8	212-2775	7M32	212-2855
23K2	212-2536	95K3	212-2617	422K	212-2696	1M82	212-2776	7M5	212-2857
23K7	212-2537	97K6	212-2618	430K	212-2697	1M87	212-2778	7M68	212-2858
24K	212-2538	100K	212-2619	432K	212-2699	1M91	212-2779	7M87	212-2859
24K3	212-2539	102K	212-2620	442K	212-2700	1M96	212-2780	8M06	212-2860
24K9	212-2540	105K	212-2621	453K	212-2701	2M	212-2781	8M2	212-2861
25K5	212-2541	107K	212-2622	464K	212-2702	2M05	212-2782	8M25	212-2862
26K1	212-2542	110K	212-2623	470K	212-2703	2M1	212-2783	8M45	212-2863
26K7	212-2543	113K	212-2624	475K	212-2705	2M15	212-2784	8M66	212-2864
27K	212-2544	115K	212-2626	487K	212-2706	2M2	212-2785	8M87	212-2865
27K4	212-2545	118K	212-2627	499K	212-2707	2M21	212-2786	9M09	212-2866
28K	212-2547	120K	212-2628	510K	212-2708	2M26	212-2787	9M1	212-2867
28K7	212-2548	121K	212-2629	511K	212-2709	2M32	212-2788	9M31	212-2869
29K4	212-2549	124K	212-2630	523K	212-2710	2M37	212-2791	9M53	212-2871
30K	212-2550	127K	212-2631	536K	212-2711	2M4	212-2792	9M76	212-2872
30K1	212-2551	130K	212-2632	549K	212-2712	2M43	212-2793	10M	212-2873
30K9	212-2552								

	Price Each				
Order Code	5K+	+	+	+	+
All Values ●					

0805 Case Size

Stocked in the following OHMIC Values:

0R =	212-2874	18R =	212-2905	31R6 =	212-2936	53R6 =	212-2967	93R1 =	212-2998
10R =	212-2875	18R2 =	212-2906	32R4 =	212-2937	54R9 =	212-2968	95R3 =	212-2999
10R2 =	212-2876	18R7 =	212-2907	33R =	212-2938	56R =	212-2969	97R6 =	212-3000
10R5 =	212-2877	19R1 =	212-2908	33R2 =	212-2939	56R2 =	212-2970	100R =	212-3001
10R7 =	212-2878	19R6 =	212-2909	34R =	212-2940	57R6 =	212-2971	102R =	212-3002
11R =	212-2879	20R =	212-2910	34R8 =	212-2941	59R =	212-2973	105R =	212-3003
11R3 =	212-2880	20R5 =	212-2912	35R7 =	212-2942	60R4 =	212-2974	107R =	212-3004
11R5 =	212-2882	21R =	212-2913	36R =	212-2943	61R9 =	212-2975	110R =	212-3005
11R8 =	212-2883	21R5 =	212-2914	36R5 =	212-2944	62R =	212-2976	113R =	212-3006
12R =	212-2884	22R =	212-2915	37R4 =	212-2945	63R4 =	212-2977	115R =	212-3007
12R1 =	212-2885	22R1 =	212-2916	38R3 =	212-2946	64R9 =	212-2978	118R =	212-3008
12R4 =	212-2886	22R6 =	212-2917	39R =	212-2948	66R5 =	212-2979	120R =	212-3011
12R7 =	212-2887	23R2 =	212-2918	39R2 =	212-2949	68R =	212-2980	121R =	212-3012
13R =	212-2888	23R7 =	212-2919	40R2 =	212-2950	68R1 =	212-2981	124R =	212-3013
13R3 =	212-2889	24R =	212-2920	41R2 =	212-2951	69R8 =	212-2982	127R =	212-3014
13R7 =	212-2890	24R3 =	212-2921	42R2 =	212-2952	71R5 =	212-2983	130R =	212-3015
14R =	212-2891	24R9 =	212-2922	43R =	212-2953	73R2 =	212-2985	133R =	212-3016
14R3 =	212-2892	25R5 =	212-2924	43R2 =	212-2954	75R =	212-2986	137R =	212-3017
14R7 =	212-2894	26R1 =	212-2925	44R2 =	212-2955	76R8 =	212-2987	140R =	212-3018
15R =	212-2895	26R7 =	212-2926	45R3 =	212-2956	78R7 =	212-2988	143R =	212-3019
15R4 =	212-2896	27R =	212-2927	46R4 =	212-2957	80R6 =	212-2989	147R =	212-3020
15R8 =	212-2897	27R4 =	212-2928	47R =	212-2958	82R =	212-2990	150R =	212-3021
16R =	212-2898	28R =	212-2929	47R5 =	212-2961	82R5 =	212-2991	154R =	212-3023
16R2 =	212-2899	28R7 =	212-2930	48R7 =	212-2962	84R5 =	212-2992	158R =	212-3024
16R5 =	212-2901	29R4 =	212-2931	49R9 =	212-2963	86R6 =	212-2993	160R =	212-3025
16R9 =	212-2902	30R =	212-2932	51R =	212-2964	88R7 =	212-2994	162R =	212-3026
17R4 =	212-2903	30R1 =	212-2933	51R1 =	212-2965	90R9 =	212-2995	165R =	212-3027
17R8 =	212-2904	30R9 =	212-2934	52R3 =	212-2966	91R =	212-2997	169R =	212-3028

RoHS ● Compliant ▲ Non-compliant

174R =	212-3029	1K5 =	212-3147	12K7 =	212-3267	110K =	212-3386	931K =	212-3505		
178R =	212-3030	1K54 =	212-3148	13K =	212-3268	113K =	212-3387	953K =	212-3506		
180R =	212-3031	1K58 =	212-3151	13K3 =	212-3269	115K =	212-3388	976K =	212-3507		
182R =	212-3032	1K6 =	212-3152	13K7 =	212-3270	118K =	212-3389	1M =	212-3508		
187R =	212-3033	1K62 =	212-3153	14K =	212-3271	120K =	212-3390	1M02 =	212-3509		
191R =	212-3035	1K65 =	212-3154	14K3 =	212-3272	121K =	212-3391	1M05 =	212-3510		
196R =	212-3036	1K69 =	212-3155	14K7 =	212-3273	124K =	212-3392	1M07 =	212-3511		
200R =	212-3037	1K74 =	212-3156	15K =	212-3274	127K =	212-3394	1M1 =	212-3512		
205R =	212-3038	1K78 =	212-3157	15K4 =	212-3275	130K =	212-3395	1M13 =	212-3513		
210R =	212-3039	1K8 =	212-3158	15K8 =	212-3276	133K =	212-3396	1M15 =	212-3515		
215R =	212-3040	1K82 =	212-3159	16K =	212-3278	137K =	212-3397	1M18 =	212-3516		
220R =	212-3041	1K87 =	212-3160	16K2 =	212-3279	140K =	212-3398	1M2 =	212-3517		
221R =	212-3042	1K91 =	212-3161	16K5 =	212-3280	143K =	212-3399	1M21 =	212-3518		
226R =	212-3043	1K96 =	212-3163	16K9 =	212-3281	147K =	212-3401	1M24 =	212-3519		
232R =	212-3044	2K =	212-3164	17K4 =	212-3282	150K =	212-3402	1M27 =	212-3520		
237R =	212-3045	2K05 =	212-3165	17K8 =	212-3283	154K =	212-3403	1M3 =	212-3521		
240R =	212-3047	2K1 =	212-3166	18K =	212-3284	158K =	212-3404	1M33 =	212-3522		
243R =	212-3048	2K15 =	212-3167	18K2 =	212-3285	160K =	212-3405	1M37 =	212-3523		
249R =	212-3049	2K2 =	212-3168	18K7 =	212-3286	162K =	212-3406	1M4 =	212-3524		
255R =	212-3050	2K21 =	212-3169	19K1 =	212-3287	165K =	212-3407	1M43 =	212-3525		
261R =	212-3051	2K26 =	212-3170	19K6 =	212-3288	169K =	212-3408	1M47 =	212-3527		
267R =	212-3052	2K32 =	212-3171	20K =	212-3291	174K =	212-3409	1M5 =	212-3528		
270R =	212-3053	2K37 =	212-3172	20K5 =	212-3292	178K =	212-3410	1M54 =	212-3529		
274R =	212-3054	2K4 =	212-3173	21K =	212-3293	180K =	212-3412	1M58 =	212-3530		
280R =	212-3055	2K43 =	212-3175	21K5 =	212-3294	182K =	212-3413	1M6 =	212-3531		
287R =	212-3056	2K49 =	212-3176	22K =	212-3295	187K =	212-3414	1M62 =	212-3532		
294R =	212-3057	2K55 =	212-3177	22K1 =	212-3296	191K =	212-3415	1M65 =	212-3533		
300R =	212-3059	2K61 =	212-3178	22K6 =	212-3297	196K =	212-3416	1M69 =	212-3534		
301R =	212-3061	2K67 =	212-3179	23K2 =	212-3298	200K =	212-3417	1M74 =	212-3535		
309R =	212-3062	2K7 =	212-3180	23K7 =	212-3299	205K =	212-3418	1M78 =	212-3536		
316R =	212-3063	2K74 =	212-3181	24K =	212-3300	210K =	212-3419	1M8 =	212-3537		
324R =	212-3064	2K8 =	212-3182	24K3 =	212-3301	215K =	212-3420	1M82 =	212-3539		
330R =	212-3065	2K87 =	212-3183	24K9 =	212-3302	220K =	212-3421	1M87 =	212-3541		
332R =	212-3066	2K94 =	212-3184	25K5 =	212-3303	221K =	212-3422	1M91 =	212-3542		
340R =	212-3067	3K =	212-3185	26K1 =	212-3304	226K =	212-3424	1M96 =	212-3543		
348R =	212-3068	3K01 =	212-3187	26K7 =	212-3305	232K =	212-3425	2M =	212-3544		
357R =	212-3069	3K09 =	212-3188	27K =	212-3306	237K =	212-3426	2M05 =	212-3545		
360R =	212-3070	3K16 =	212-3189	27K4 =	212-3308	240K =	212-3427	2M1 =	212-3546		
365R =	212-3072	3K24 =	212-3190	28K =	212-3309	243K =	212-3428	2M15 =	212-3547		
374R =	212-3073	3K3 =	212-3191	28K7 =	212-3310	249K =	212-3429	2M2 =	212-3548		
383R =	212-3074	3K32 =	212-3192	29K4 =	212-3311	255K =	212-3430	2M21 =	212-3549		
390R =	212-3075	3K4 =	212-3193	30K =	212-3312	261K =	212-3431	2M26 =	212-3550		
392R =	212-3076	3K48 =	212-3194	30K1 =	212-3313	267K =	212-3432	2M32 =	212-3552		
402R =	212-3077	3K57 =	212-3195	30K9 =	212-3314	270K =	212-3433	2M37 =	212-3553		
412R =	212-3078	3K6 =	212-3196	31K6 =	212-3315	274K =	212-3434	2M4 =	212-3554		
422R =	212-3079	3K65 =	212-3197	32K4 =	212-3316	280K =	212-3436	2M43 =	212-3555		
430R =	212-3080	3K74 =	212-3199	33K =	212-3317	287K =	212-3437	2M49 =	212-3556		
432R =	212-3081	3K83 =	212-3200	33K2 =	212-3318	294K =	212-3438	2M55 =	212-3557		
442R =	212-3082	3K9 =	212-3201	34K =	212-3321	300K =	212-3439	2M61 =	212-3558		
453R =	212-3084	3K92 =	212-3202	34K8 =	212-3322	301K =	212-3440	2M67 =	212-3559		
464R =	212-3085	4K02 =	212-3203	35K7 =	212-3323	309K =	212-3441	2M7 =	212-3560		
470R =	212-3086	4K12 =	212-3205	36K =	212-3324	316K =	212-3442	2M74 =	212-3561		
475R =	212-3087	4K22 =	212-3206	36K5 =	212-3325	324K =	212-3443	2M8 =	212-3562		
487R =	212-3088	4K3 =	212-3207	37K4 =	212-3326	330K =	212-3444	2M87 =	212-3564		
499R =	212-3089	4K32 =	212-3208	38K3 =	212-3327	332K =	212-3445	2M94 =	212-3565		
510R =	212-3090	4K42 =	212-3209	39K =	212-3328	340K =	212-3446	3M =	212-3566		
511R =	212-3091	4K53 =	212-3210	39K2 =	212-3329	348K =	212-3448	3M01 =	212-3567		
523R =	212-3092	4K64 =	212-3211	40K2 =	212-3330	357K =	212-3449	3M09 =	212-3568		
536R =	212-3093	4K7 =	212-3212	41K2 =	212-3331	360K =	212-3450	3M16 =	212-3569		
549R =	212-3094	4K75 =	212-3213	42K2 =	212-3333	365K =	212-3451	3M24 =	212-3570		
560R =	212-3096	4K87 =	212-3214	43K =	212-3334	374K =	212-3452	3M3 =	212-3571		
562R =	212-3097	4K99 =	212-3215	43K2 =	212-3335	383K =	212-3453	3M32 =	212-3572		
576R =	212-3098	5K1 =	212-3217	44K2 =	212-3336	390K =	212-3454	3M4 =	212-3573		
590R =	212-3099	5K11 =	212-3218	45K3 =	212-3337	392K =	212-3455	3M48 =	212-3574		
604R =	212-3100	5K23 =	212-3219	46K4 =	212-3338	402K =	212-3456	3M57 =	212-3576		
619R =	212-3102	5K36 =	212-3220	47K =	212-3339	412K =	212-3457	3M6 =	212-3577		
620R =	212-3103	5K49 =	212-3221	47K5 =	212-3340	422K =	212-3458	3M65 =	212-3578		
634R =	212-3104	5K6 =	212-3222	48K7 =	212-3341	430K =	212-3461	3M74 =	212-3579		
649R =	212-3105	5K62 =	212-3223	49K9 =	212-3342	432K =	212-3462	3M83 =	212-3580		
665R =	212-3106	5K76 =	212-3224	51K =	212-3343	442K =	212-3463	3M9 =	212-3581		
680R =	212-3107	5K9 =	212-3225	51K1 =	212-3345	453K =	212-3464	3M92 =	212-3582		
681R =	212-3108	6K04 =	212-3226	52K3 =	212-3346	464K =	212-3465	4M02 =	212-3583		
698R =	212-3109	6K19 =	212-3227	53K6 =	212-3347	470K =	212-3466	4M12 =	212-3584		
715R =	212-3110	6K2 =	212-3229	54K9 =	212-3348	475K =	212-3467	4M22 =	212-3585		
732R =	212-3111	6K34 =	212-3231	56K =	212-3349	487K =	212-3468	4M3 =	212-3586		
750R =	212-3112	6K49 =	212-3232	56K2 =	212-3350	499K =	212-3469	4M32 =	212-3588		
768R =	212-3114	6K65 =	212-3233	57K6 =	212-3351	510K =	212-3470	4M42 =	212-3589		
787R =	212-3115	6K8 =	212-3234	59K =	212-3352	511K =	212-3471	4M53 =	212-3590		
806R =	212-3116	6K81 =	212-3235	60K4 =	212-3353	523K =	212-3473	4M64 =	212-3591		
820R =	212-3117	6K98 =	212-3236	61K9 =	212-3354	536K =	212-3474	4M7 =	212-3592		
825R =	212-3118	7K15 =	212-3237	62K =	212-3355	549K =	212-3475	4M75 =	212-3593		
845R =	212-3119	7K32 =	212-3238	63K4 =	212-3357	560K =	212-3476	4M87 =	212-3594		
866R =	212-3120	7K5 =	212-3239	64K9 =	212-3358	562K =	212-3477	4M99 =	212-3595		
887R =	212-3121	7K68 =	212-3240	66K5 =	212-3359	576K =	212-3478	5M1 =	212-3596		
909R =	212-3122	7K87 =	212-3242	68K =	212-3360	590K =	212-3479	5M11 =	212-3597		
910R =	212-3123	8K06 =	212-3243	68K1 =	212-3361	604K =	212-3480	5M23 =	212-3598		
931R =	212-3124	8K2 =	212-3244	69K8 =	212-3362	619K =	212-3481	5M36 =	212-3600		
953R =	212-3126	8K25 =	212-3245	71K5 =	212-3363	620K =	212-3482	5M49 =	212-3601		
976R =	212-3127	8K45 =	212-3246	73K2 =	212-3364	634K =	212-3483	5M6 =	212-3602		
1K =	212-3128	8K66 =	212-3247	75K =	212-3365	649K =	212-3485	5M62 =	212-3603		
1K02 =	212-3129	8K87 =	212-3248	76K8 =	212-3366	665K =	212-3486	5M76 =	212-3604		
1K05 =	212-3130	9K09 =	212-3249	78K7 =	212-3367	680K =	212-3487	5M9 =	212-3606		
1K07 =	212-3131	9K1 =	212-3250	80K6 =	212-3369	681K =	212-3488	6M04 =	212-3607		
1K1 =	212-3132	9K31 =	212-3251	82K =	212-3371	698K =	212-3489	6M19 =	212-3608		
1K13 =	212-3133	9K53 =	212-3252	82K5 =	212-3372	715K =	212-3490	6M2 =	212-3609		
1K15 =	212-3134	9K76 =	212-3254	84K5 =	212-3373	732K =	212-3491	6M34 =	212-3610		
1K18 =	212-3135	10K =	212-3255	86K6 =	212-3374	750K =	212-3492	6M49 =	212-3611		
1K2 =	212-3136	10K2 =	212-3256	88K7 =	212-3375	768K =	212-3493	6M65 =	212-3612		
1K21 =	212-3138	10K5 =	212-3257	90K9 =	212-3376	787K =	212-3494	6M8 =	212-3613		
1K24 =	212-3139	10K7 =	212-3258	91K =	212-3377	806K =	212-3495	6M81 =	212-3614		
1K27 =	212-3140	11K =	212-3259	93K1 =	212-3378	820K =	212-3497	6M98 =	212-3615		
1K3 =	212-3141	11K3 =	212-3260	95K3 =	212-3379	825K =	212-3498	7M15 =	212-3616		
1K33 =	212-3142	11K5 =	212-3261	97K6 =	212-3380	845K =	212-3499	7M32 =	212-3618		
1K37 =	212-3143	11K8 =	212-3262	100K =	212-3382	866K =	212-3500	7M5 =	212-3619		
1K4 =	212-3144	12K =	212-3263	102K =	212-3383	887K =	212-3501	7M68 =	212-3620		
1K43 =	212-3145	12K1 =	212-3264	105K =	212-3384	909K =	212-3503	7M87 =	212-3621		
1K47 =	212-3146	12K4 =	212-3266	107K =	212-3385	910K =	212-3504	8M06 =	212-3622		
8M2 =	212-3623	8M66 =	212-3626	9M09 =	212-3628	9M31 =	212-3632	9M76 =	212-3634		
8M25 =	212-3624	8M87 =	212-3627	9M1 =	212-3631	9M53 =	212-3633	10M =	212-3635		
8M45 =	212-3625										

Order Code	5K+	+	+	+	+
All Values ●					

Price Each

1206 Case Size

Stocked in the following OHMIC Values:

0R =	146-9963	68R1 =	212-3743	510R =	212-3853	3K74 =	212-3961	27K4 =	212-4070		
0R =	212-3636	69R8 =	212-3744	511R =	212-3854	3K83 =	212-3962	28K =	212-4071		
10R =	212-3637	71R5 =	212-3746	523R =	212-3855	3K9 =	212-3963	28K7 =	212-4072		
10R2 =	212-3638	73R2 =	212-3747	536R =	212-3856	3K92 =	212-3965	29K4 =	212-4073		
10R5 =	212-3639	75R =	212-3748	549R =	212-3857	4K02 =	212-3966	30K =	212-4074		
10R7 =	212-3640	76R8 =	212-3749	560R =	212-3858	4K12 =	212-3967	30K1 =	212-4076		
11R =	212-3641	78R7 =	212-3750	562R =	212-3859	4K22 =	212-3968	30K9 =	212-4077		
11R3 =	212-3643	80R6 =	212-3751	576R =	212-3860	4K3 =	212-3969	31K6 =	212-4078		
11R5 =	212-3644	82R =	212-3752	590R =	212-3862	4K32 =	212-3970	32K4 =	212-4079		
11R8 =	212-3645	82R5 =	212-3753	604R =	212-3863	4K42 =	212-3971	33K =	212-4080		
12R =	212-3646	84R5 =	212-3754	619R =	212-3864	4K53 =	212-3972	33K2 =	212-4081		
12R1 =	212-3647	86R6 =	212-3755	620R =	212-3865	4K64 =	212-3973	34K =	212-4082		
12R4 =	212-3648	88R7 =	212-3756	634R =	212-3866	4K7 =	212-3974	34K8 =	212-4083		
12R7 =	212-3649	90R9 =	212-3758	649R =	212-3867	4K75 =	212-3975	35K7 =	212-4084		
13R =	212-3650	91R =	212-3759	665R =	212-3868	4K87 =	212-3977	36K =	212-4085		
13R3 =	212-3651	93R1 =	212-3760	680R =	212-3869	4K99 =	212-3978	36K5 =	212-4086		
13R7 =	212-3652	95R3 =	212-3761	681R =	212-3870	5K1 =	212-3979	37K4 =	212-4088		
14R =	212-3653	97R6 =	212-3762	698R =	212-3871	5K11 =	212-3980	38K3 =	212-4089		
14R3 =	212-3655	100R =	212-3763	715R =	212-3872	5K23 =	212-3981	39K =	212-4090		
14R7 =	212-3656	102R =	212-3764	732R =	212-3874	5K36 =	212-3982	39K2 =	212-4091		
15R =	212-3657	105R =	212-3765	750R =	212-3875	5K49 =	212-3983	40K2 =	212-4092		
15R4 =	212-3658	107R =	212-3766	768R =	212-3876	5K6 =	212-3984	41K2 =	212-4093		
15R8 =	212-3659	110R =	212-3767	787R =	212-3877	5K62 =	212-3985	42K2 =	212-4094		
16R =	212-3660	113R =	212-3768	806R =	212-3878	5K76 =	212-3986	43K =	212-4095		
16R2 =	212-3661	115R =	212-3771	820R =	212-3879	5K9 =	212-3987	43K2 =	212-4096		
16R5 =	212-3662	118R =	212-3772	825R =	212-3880	6K04 =	212-3989	44K2 =	212-4097		
16R9 =	212-3663	120R =	212-3773	845R =	212-3881	6K19 =	212-3991	45K3 =	212-4098		
17R4 =	212-3664	121R =	212-3774	866R =	212-3882	6K2 =	212-3992	46K4 =	212-4100		
17R8 =	212-3665	124R =	212-3775	887R =	212-3883	6K34 =	212-3993	47K =	212-4101		
18R =	212-3667	127R =	212-3776	909R =	212-3884	6K49 =	212-3994	47K5 =	212-4102		
18R2 =	212-3668	130R =	212-3777	910R =	212-3886	6K65 =	212-3995	48K7 =	212-4103		
18R7 =	212-3669	133R =	212-3778	931R =	212-3887	6K8 =	212-3996	49K9 =	212-4104		
19R1 =	212-3670	137R =	212-3779	953R =	212-3888	6K81 =	212-3997	51K =	212-4106		
19R6 =	212-3671	140R =	212-3780	976R =	212-3889	6K98 =	212-3998	51K1 =	212-4107		
20R =	212-3672	143R =	212-3781	1K =	212-3890	7K15 =	212-3999	52K3 =	212-4108		
20R5 =	212-3673	147R =	212-3783	1K02 =	212-3891	7K32 =	212-4000	53K6 =	212-4109		
21R =	212-3674	150R =	212-3784	1K05 =	212-3892	7K5 =	212-4001	54K9 =	212-4110		
21R5 =	212-3675	154R =	212-3785	1K07 =	212-3893	7K68 =	212-4003	56K =	212-4111		
22R =	212-3676	158R =	212-3786	1K1 =	212-3894	7K87 =	212-4004	56K2 =	212-4112		
22R1 =	212-3677	160R =	212-3787	1K13 =	212-3895	8K06 =	212-4005	57K6 =	212-4113		
22R6 =	212-3679	162R =	212-3788	1K15 =	212-3896	8K2 =	212-4006	59K =	212-4114		
23R2 =	212-3681	165R =	212-3789	1K18 =	212-3898	8K25 =	212-4007	60K4 =	212-4115		
23R7 =	212-3682	169R =	212-3790	1K2 =	212-3899	8K45 =	212-4008	61K9 =	212-4116		
24R =	212-3683	174R =	212-3791	1K21 =	212-3900	8K66 =	212-4009	62K =	212-4118		
24R3 =	212-3684	178R =	212-3792	1K24 =	212-3901	8K87 =	212-4010	63K4 =	212-4119		
24R9 =	212-3685	180R =	212-3793	1K27 =	212-3902	9K09 =	212-4011	64K9 =	212-4120		
25R5 =	212-3686	182R =	212-3795	1K3 =	212-3904	9K1 =	212-4012	66K5 =	212-4121		
26R1 =	212-3687	187R =	212-3796	1K33 =	212-3905	9K31 =	212-4013	68K =	212-4122		
26R7 =	212-3688	191R =	212-3797	1K37 =	212-3906	9K53 =	212-4015	68K1 =	212-4123		
27R =	212-3689	196R =	212-3798	1K4 =	212-3907	9K76 =	212-4016	69K8 =	212-4124		
27R4 =	212-3690	200R =	212-3799	1K43 =	212-3908	10K =	212-4017	71K5 =	212-4125		
28R =	212-3692	205R =	212-3801	1K47 =	212-3909	10K2 =	212-4018	73K2 =	212-4126		
28R7 =	212-3693	210R =	212-3802	1K5 =	212-3910	10K5 =	212-4019	75K =	212-4127		
29R4 =	212-3694	215R =	212-3803	1K54 =	212-3911	10K7 =	212-4020	76K8 =	212-4128		
30R =	212-3695	220R =	212-3804	1K58 =	212-3912	11K =	212-4021	78K7 =	212-4131		
30R1 =	212-3696	221R =	212-3805	1K6 =	212-3913	11K3 =	212-4022	80K6 =	212-4132		
30R9 =	212-3697	226R =	212-3806	1K62 =	212-3914	11K5 =	212-4023	82K =	212-4133		
31R6 =	212-3698	232R =	212-3807	1K65 =	212-3916	11K8 =	212-4024	82K5 =	212-4134		
32R4 =	212-3699	237R =	212-3808	1K69 =	212-3917	12K =	212-4025	84K5 =	212-4135		
33R =	212-3700	240R =	212-3809	1K74 =	212-3918	12K1 =	212-4027	86K6 =	212-4136		
33R2 =	212-3701	243R =	212-3810	1K78 =	212-3919	12K4 =	212-4028	88K7 =	212-4137		
34R =	212-3702	249R =	212-3811	1K8 =	212-3920	12K7 =	212-4029	90K9 =	212-4138		
34R8 =	212-3703	255R =	212-3813	1K82 =	212-3921	13K =	212-4030	91K =	212-4139		
35R7 =	212-3704	261R =	212-3814	1K87 =	212-3922	13K3 =	212-4031	93K1 =	212-4140		
36R =	212-3705	267R =	212-3815	1K91 =	212-3923	13K7 =	212-4032	95K3 =	212-4141		
36R5 =	212-3706	270R =	212-3816	1K96 =	212-3924	14K =	212-4033	97K6 =	212-4143		
37R4 =	212-3707	274R =	212-3817	2K =	212-3925	14K3 =	212-4034	100K =	212-4144		
38R3 =	212-3709	280R =	212-3818	2K05 =	212-3926	14K7 =	212-4035	102K =	212-4145		
39R =	212-3711	287R =	212-3819	2K1 =	212-3928	15K =	212-4036	105K =	212-4146		
39R2 =	212-3712	294R =	212-3820	2K15 =	212-3929	15K4 =	212-4037	107K =	212-4147		
40R2 =	212-3713	300R =	212-3821	2K2 =	212-3930	15K8 =	212-4039	110K =	212-4148		
41R2 =	212-3714	301R =	212-3822	2K21 =	212-3931	16K =	212-4041	113K =	212-4149		
42R2 =	212-3715	309R =	212-3823	2K26 =	212-3932	16K2 =	212-4042	115K =	212-4150		
43R =	212-3716	316R =	212-3825	2K32 =	212-3933	16K5 =	212-4043	118K =	212-4151		
43R2 =	212-3717	324R =	212-3826	2K37 =	212-3934	16K9 =	212-4044	120K =	212-4152		
44R2 =	212-3718	330R =	212-3827	2K4 =	212-3935	17K4 =	212-4045	121K =	212-4153		
45R3 =	212-3719	332R =	212-3828	2K43 =	212-3936	17K8 =	212-4046	124K =	212-4155		
46R4 =	212-3720	340R =	212-3829	2K49 =	212-3937	18K =	212-4047	127K =	212-4156		
47R =	212-3722	348R =	212-3830	2K55 =	212-3938	18K2 =	212-4048	130K =	212-4157		
47R5 =	212-3723	357R =	212-3831	2K61 =	212-3941	18K7 =	212-4049	133K =	212-4158		
48R7 =	212-3724	360R =	212-3832	2K67 =	212-3942	19K1 =	212-4050	137K =	212-4159		
49R9 =	212-3725	365R =	212-3833	2K7 =	212-3943	19K6 =	212-4052	140K =	212-4160		
51R =	212-3726	374R =	212-3834	2K74 =	212-3944	20K =	212-4053	143K =	212-4161		
51R1 =	212-3727	383R =	212-3835	2K8 =	212-3945	20K5 =	212-4054	147K =	212-4162		
52R3 =	212-3728	390R =	212-3837	2K87 =	212-3946	21K =	212-4055	150K =	212-4163		
53R6 =	212-3729	392R =	212-3838	2K94 =	212-3947	21K5 =	212-4056	154K =	212-4164		
54R9 =	212-3730	402R =	212-3839	3K =	212-3948	22K =	212-4057	158K =	212-4165		
56R =	212-3731	412R =	212-3840	3K01 =	212-3949	22K1 =	212-4058	160K =	212-4167		
56R2 =	212-3732	422R =	212-3841	3K09 =	212-3950	22K6 =	212-4059	162K =	212-4168		
57R6 =	212-3734	430R =	212-3842	3K16 =	212-3951	23K2 =	212-4060	165K =	212-4169		
59R =	212-3735	432R =	212-3843	3K24 =	212-3953	23K7 =	212-4061	169K =	212-4170		
60R4 =	212-3736	442R =	212-3844	3K3 =	212-3954	24K =	212-4062	174K =	212-4171		
61R9 =	212-3737	453R =	212-3845	3K32 =	212-3955	24K3 =	212-4064	178K =	212-4172		
62R =	212-3738	464R =	212-3846	3K4 =	212-3956	24K9 =	212-4065	180K =	212-4173		
63R4 =	212-3739	470R =	212-3847	3K48 =	212-3957	25K5 =	212-4066	182K =	212-4174		
64R9 =	212-3740	475R =	212-3849	3K57 =	212-3958	26K1 =	212-4067	187K =	212-4175		
66R5 =	212-3741	487R =	212-3851	3K6 =	212-3959	26K7 =	212-4068	191K =	212-4176		
68R =	212-3742	499R =	212-3852	3K65 =	212-3960	27K =	212-4069	196K =	212-4177		

CRCW Series FULL REEL - continued

0402 Case Size - continued

200K =	212-4179	432K =	212-4224	953K =	212-4267	2M21 =	212-4311	4M7 =	212-4355
205K =	212-4181	442K =	212-4225	976K =	212-4268	2M26 =	212-4313	4M75 =	212-4356
210K =	212-4182	453K =	212-4226	1M =	212-4271	2M32 =	212-4314	4M87 =	212-4357
215K =	212-4183	464K =	212-4227	1M02 =	212-4272	2M37 =	212-4315	4M99 =	212-4358
220K =	212-4184	470K =	212-4228	1M05 =	212-4273	2M4 =	212-4316	5M1 =	212-4359
221K =	212-4185	475K =	212-4229	1M07 =	212-4274	2M43 =	212-4317	5M11 =	212-4360
226K =	212-4186	487K =	212-4230	1M1 =	212-4275	2M49 =	212-4318	5M23 =	212-4362
232K =	212-4187	499K =	212-4231	1M13 =	212-4276	2M55 =	212-4319	5M36 =	212-4363
237K =	212-4188	510K =	212-4232	1M15 =	212-4277	2M61 =	212-4320	5M49 =	212-4364
240K =	212-4189	511K =	212-4234	1M18 =	212-4278	2M67 =	212-4321	5M6 =	212-4365
243K =	212-4190	523K =	212-4235	1M2 =	212-4279	2M7 =	212-4322	5M62 =	212-4366
249K =	212-4192	536K =	212-4236	1M21 =	212-4280	2M74 =	212-4323	5M76 =	212-4367
255K =	212-4193	549K =	212-4237	1M24 =	212-4281	2M8 =	212-4325	5M9 =	212-4368
261K =	212-4194	560K =	212-4238	1M27 =	212-4283	2M87 =	212-4326	6M04 =	212-4369
267K =	212-4195	562K =	212-4239	1M3 =	212-4284	2M94 =	212-4327	6M19 =	212-4370
270K =	212-4196	576K =	212-4240	1M33 =	212-4285	3M =	212-4328	6M2 =	212-4371
274K =	212-4197	590K =	212-4241	1M37 =	212-4286	3M01 =	212-4329	6M34 =	212-4372
280K =	212-4198	604K =	212-4242	1M4 =	212-4287	3M09 =	212-4330	6M49 =	212-4374
287K =	212-4199	619K =	212-4243	1M43 =	212-4288	3M16 =	212-4331	6M65 =	212-4375
294K =	212-4200	620K =	212-4244	1M47 =	212-4289	3M24 =	212-4332	6M8 =	212-4376
300K =	212-4201	634K =	212-4246	1M5 =	212-4290	3M3 =	212-4333	6M81 =	212-4377
301K =	212-4202	649K =	212-4247	1M54 =	212-4291	3M32 =	212-4334	6M98 =	212-4378
309K =	212-4203	665K =	212-4248	1M58 =	212-4292	3M4 =	212-4335	7M15 =	212-4379
316K =	212-4204	680K =	212-4249	1M6 =	212-4293	3M48 =	212-4337	7M32 =	212-4380
324K =	212-4205	681K =	212-4250	1M62 =	212-4295	3M57 =	212-4338	7M5 =	212-4381
330K =	212-4206	698K =	212-4251	1M65 =	212-4296	3M6 =	212-4339	7M68 =	212-4382
332K =	212-4207	715K =	212-4252	1M69 =	212-4297	3M65 =	212-4340	7M87 =	212-4383
340K =	212-4209	732K =	212-4253	1M74 =	212-4298	3M74 =	212-4341	8M06 =	212-4384
348K =	212-4211	750K =	212-4254	1M78 =	212-4299	3M83 =	212-4342	8M2 =	212-4386
357K =	212-4212	768K =	212-4255	1M8 =	212-4301	3M9 =	212-4343	8M25 =	212-4387
360K =	212-4213	787K =	212-4256	1M82 =	212-4302	3M92 =	212-4344	8M45 =	212-4388
365K =	212-4214	806K =	212-4258	1M87 =	212-4303	4M02 =	212-4345	8M66 =	212-4389
374K =	212-4215	820K =	212-4259	1M91 =	212-4304	4M12 =	212-4346	8M87 =	212-4390
383K =	212-4216	825K =	212-4260	1M96 =	212-4305	4M22 =	212-4347	9M09 =	212-4391
390K =	212-4217	845K =	212-4261	2M =	212-4306	4M3 =	212-4349	9M1 =	212-4392
392K =	212-4218	866K =	212-4262	2M05 =	212-4307	4M32 =	212-4351	9M31 =	212-4393
402K =	212-4219	887K =	212-4263	2M1 =	212-4308	4M42 =	212-4352	9M53 =	212-4394
412K =	212-4220	909K =	212-4264	2M15 =	212-4309	4M53 =	212-4353	9M76 =	212-4395
422K =	212-4222	910K =	212-4265	2M2 =	212-4310	4M64 =	212-4354	10M =	212-4396
430K =	212-4223	931K =	212-4266						

661055

Order Code	5K+	+	+	+	+
All Values ●					

Price Each

Order Code	10K+	+	+	+	+
All Values ●					

Price Each

CRCW Series EACH

- High and repetitive surge and pulse loading applications
- Densely populated PCBs
- High Power Resistor
- Automotive standard AEC-Q200 rev.C qualified

- Double sided printed design
- Saves space on the PCB.
- Reduce stresses in PCBs caused by temperature changes.

	0201	0402	0603	0805	1206	1210	2010	2512
Tolerance				± 1%				
Temperature Coeff.				± 200ppm/°C				
Voltage	30V	50V	75V	150V	200V	200V	400V	500V
Power Rating	50mW	63mW	100mW	125mW	250mW	330mW	750mW	1W

0201 Case Size

Stocked in the following OHMIC Values:

0R =	213-9811	18R2 =	213-9843	33R =	213-9876	56R2 =	213-9908	102R =	213-9940
10R =	213-9812	18R7 =	213-9845	33R2 =	213-9877	57R6 =	213-9909	105R =	213-9941
10R2 =	213-9813	19R1 =	213-9846	34R =	213-9878	59R =	213-9910	107R =	213-9942
10R5 =	213-9814	19R6 =	213-9847	34R8 =	213-9879	60R4 =	213-9912	110R =	213-9943
10R7 =	213-9815	20R =	213-9848	35R7 =	213-9880	61R9 =	213-9913	113R =	213-9944
11R =	213-9816	20R5 =	213-9849	36R =	213-9882	62R =	213-9914	115R =	213-9945
11R3 =	213-9817	21R =	213-9850	36R5 =	213-9883	63R4 =	213-9915	118R =	213-9946
11R5 =	213-9818	21R5 =	213-9851	37R4 =	213-9884	64R9 =	213-9916	120R =	213-9948
11R8 =	213-9821	22R =	213-9852	38R3 =	213-9885	66R5 =	213-9917	121R =	213-9949
12R =	213-9822	22R1 =	213-9853	39R =	213-9886	68R =	213-9918	124R =	213-9950
12R1 =	213-9823	22R6 =	213-9854	39R2 =	213-9887	68R1 =	213-9919	127R =	213-9951
12R4 =	213-9824	23R2 =	213-9855	40R2 =	213-9888	69R8 =	213-9920	130R =	213-9952
12R7 =	213-9825	23R7 =	213-9857	41R2 =	213-9889	71R5 =	213-9921	133R =	213-9953
13R =	213-9826	24R =	213-9858	42R2 =	213-9890	73R2 =	213-9922	137R =	213-9954
13R3 =	213-9827	24R3 =	213-9859	43R =	213-9891	75R =	213-9924	140R =	213-9955
13R7 =	213-9828	24R9 =	213-9860	43R2 =	213-9892	76R8 =	213-9925	143R =	213-9956
14R =	213-9829	25R5 =	213-9861	44R2 =	213-9894	78R7 =	213-9926	147R =	213-9957
14R3 =	213-9830	26R1 =	213-9862	45R3 =	213-9895	80R6 =	213-9927	150R =	213-9958
14R7 =	213-9831	26R7 =	213-9863	46R4 =	213-9896	82R =	213-9928	154R =	213-9961
15R =	213-9833	27R =	213-9864	47R =	213-9897	82R5 =	213-9929	158R =	213-9962
15R4 =	213-9834	27R4 =	213-9865	47R5 =	213-9898	84R5 =	213-9930	160R =	213-9963
15R8 =	213-9835	28R =	213-9866	48R7 =	213-9899	86R6 =	213-9931	162R =	213-9964
16R =	213-9836	28R7 =	213-9867	49R9 =	213-9901	88R7 =	213-9932	165R =	213-9965
16R2 =	213-9837	29R4 =	213-9869	51R =	213-9902	90R9 =	213-9933	169R =	213-9966
16R5 =	213-9838	30R =	213-9871	51R1 =	213-9903	91R =	213-9934	174R =	213-9967
16R9 =	213-9839	30R1 =	213-9872	52R3 =	213-9904	93R1 =	213-9936	178R =	213-9968
17R4 =	213-9840	30R9 =	213-9873	53R6 =	213-9905	95R3 =	213-9937	180R =	213-9969
17R8 =	213-9841	31R6 =	213-9874	54R9 =	213-9906	97R6 =	213-9938	182R =	213-9970
18R =	213-9842	32R4 =	213-9875	56R =	213-9907	100R =	213-9939	187R =	213-9971
191R =	213-9973	1K65 =	214-0091	14K3 =	214-0210	121K =	214-0328	1M05 =	214-0448
196R =	213-9974	1K69 =	214-0092	14K7 =	214-0211	124K =	214-0331	1M07 =	214-0449
200R =	213-9975	1K74 =	214-0094	15K =	214-0212	127K =	214-0332	1M1 =	214-0450
205R =	213-9976	1K78 =	214-0095	15K4 =	214-0213	130K =	214-0333	1M13 =	214-0451
210R =	213-9977	1K8 =	214-0096	15K8 =	214-0215	133K =	214-0334	1M15 =	214-0452
215R =	213-9978	1K82 =	214-0097	16K =	214-0216	137K =	214-0335	1M18 =	214-0453
220R =	213-9979	1K87 =	214-0098	16K2 =	214-0217	140K =	214-0336	1M2 =	214-0454
221R =	213-9980	1K91 =	214-0099	16K5 =	214-0218	143K =	214-0337	1M21 =	214-0455
226R =	213-9981	1K96 =	214-0101	16K9 =	214-0219	147K =	214-0338	1M24 =	214-0456
232R =	213-9982	2K =	214-0102	17K4 =	214-0220	150K =	214-0339	1M27 =	214-0458
237R =	213-9983	2K05 =	214-0103	17K8 =	214-0221	154K =	214-0340	1M3 =	214-0459
240R =	213-9985	2K1 =	214-0104	18K =	214-0222	158K =	214-0341	1M33 =	214-0460
243R =	213-9986	2K15 =	214-0105	18K2 =	214-0223	160K =	214-0343	1M37 =	214-0461
249R =	213-9987	2K2 =	214-0106	18K7 =	214-0224	162K =	214-0344	1M4 =	214-0462
255R =	213-9988	2K21 =	214-0107	19K1 =	214-0225	165K =	214-0345	1M43 =	214-0463
261R =	213-9989	2K26 =	214-0108	19K6 =	214-0227	169K =	214-0346	1M47 =	214-0464
267R =	213-9990	2K32 =	214-0109	20K =	214-0228	174K =	214-0347	1M5 =	214-0465
270R =	213-9991	2K37 =	214-0110	20K5 =	214-0229	178K =	214-0348	1M54 =	214-0466
274R =	213-9992	2K4 =	214-0112	21K =	214-0230	180K =	214-0349	1M58 =	214-0467
280R =	213-9993	2K43 =	214-0113	21K5 =	214-0231	182K =	214-0350	1M6 =	214-0468
287R =	213-9994	2K49 =	214-0114	22K =	214-0232	187K =	214-0351	1M62 =	214-0471
294R =	213-9995	2K55 =	214-0115	22K1 =	214-0233	191K =	214-0352	1M65 =	214-0472
300R =	213-9997	2K61 =	214-0116	22K6 =	214-0234	196K =	214-0353	1M69 =	214-0473
301R =	213-9998	2K67 =	214-0117	23K2 =	214-0235	200K =	214-0355	1M74 =	214-0474
309R =	213-9999	2K7 =	214-0118	23K7 =	214-0236	205K =	214-0356	1M78 =	214-0475
316R =	214-0000	2K74 =	214-0119	24K =	214-0237	210K =	214-0357	1M8 =	214-0476
324R =	214-0001	2K8 =	214-0120	24K3 =	214-0239	215K =	214-0358	1M82 =	214-0477
330R =	214-0002	2K87 =	214-0121	24K9 =	214-0241	220K =	214-0359	1M87 =	214-0478
332R =	214-0003	2K94 =	214-0122	25K5 =	214-0242	221K =	214-0360	1M91 =	214-0479
340R =	214-0004	3K =	214-0124	26K1 =	214-0243	226K =	214-0361	1M96 =	214-0480
348R =	214-0005	3K01 =	214-0125	26K7 =	214-0244	232K =	214-0362	2M =	214-0481
357R =	214-0006	3K09 =	214-0126	27K =	214-0245	237K =	214-0363	2M05 =	214-0483
360R =	214-0008	3K16 =	214-0127	27K4 =	214-0246	240K =	214-0364	2M1 =	214-0484
365R =	214-0009	3K24 =	214-0128	28K =	214-0247	243K =	214-0365	2M15 =	214-0485
374R =	214-0010	3K3 =	214-0129	28K7 =	214-0248	249K =	214-0367	2M2 =	214-0486
383R =	214-0011	3K32 =	214-0130	29K4 =	214-0249	255K =	214-0368	2M21 =	214-0487
390R =	214-0012	3K4 =	214-0131	30K =	214-0250	261K =	214-0369	2M26 =	214-0488
392R =	214-0013	3K48 =	214-0132	30K1 =	214-0252	267K =	214-0370	2M32 =	214-0489
402R =	214-0014	3K57 =	214-0133	30K9 =	214-0253	270K =	214-0371	2M37 =	214-0490
412R =	214-0015	3K6 =	214-0134	31K6 =	214-0254	274K =	214-0372	2M4 =	214-0491
422R =	214-0016	3K65 =	214-0136	32K4 =	214-0255	280K =	214-0373	2M43 =	214-0492
430R =	214-0017	3K74 =	214-0137	33K =	214-0256	287K =	214-0374	2M49 =	214-0493
432R =	214-0018	3K83 =	214-0138	33K2 =	214-0257	294K =	214-0375	2M55 =	214-0495
442R =	214-0021	3K9 =	214-0139	34K =	214-0258	300K =	214-0376	2M61 =	214-0496
453R =	214-0022	3K92 =	214-0140	34K8 =	214-0259	301K =	214-0377	2M67 =	214-0497
464R =	214-0023	4K02 =	214-0141	35K7 =	214-0260	309K =	214-0379	2M7 =	214-0498
470R =	214-0024	4K12 =	214-0142	36K =	214-0261	316K =	214-0381	2M74 =	214-0499
475R =	214-0025	4K22 =	214-0143	36K5 =	214-0262	324K =	214-0382	2M8 =	214-0501
487R =	214-0026	4K3 =	214-0144	37K4 =	214-0264	330K =	214-0383	2M87 =	214-0502
499R =	214-0027	4K32 =	214-0145	38K3 =	214-0265	332K =	214-0384	2M94 =	214-0503
510R =	214-0028	4K42 =	214-0146	39K =	214-0266	340K =	214-0385	3M =	214-0504
511R =	214-0029	4K53 =	214-0148	39K2 =	214-0267	348K =	214-0386	3M01 =	214-0505
523R =	214-0030	4K64 =	214-0149	40K2 =	214-0268	357K =	214-0387	3M09 =	214-0506
536R =	214-0031	4K7 =	214-0150	41K2 =	214-0269	360K =	214-0388	3M16 =	214-0507
549R =	214-0033	4K75 =	214-0151	42K2 =	214-0270	365K =	214-0389	3M24 =	214-0508
560R =	214-0034	4K87 =	214-0152	43K =	214-0271	374K =	214-0390	3M3 =	214-0509
562R =	214-0035	4K99 =	214-0153	43K2 =	214-0272	383K =	214-0392	3M32 =	214-0510
576R =	214-0036	5K1 =	214-0154	44K2 =	214-0273	390K =	214-0393	3M4 =	214-0511
590R =	214-0037	5K11 =	214-0155	45K3 =	214-0274	392K =	214-0394	3M48 =	214-0513
604R =	214-0038	5K23 =	214-0156	46K4 =	214-0276	402K =	214-0395	3M57 =	214-0514
619R =	214-0039	5K36 =	214-0157	47K =	214-0277	412K =	214-0396	3M6 =	214-0515
620R =	214-0040	5K49 =	214-0158	47K5 =	214-0278	422K =	214-0397	3M65 =	214-0516
634R =	214-0041	5K6 =	214-0161	48K7 =	214-0279	430K =	214-0398	3M74 =	214-0517
649R =	214-0042	5K62 =	214-0162	49K9 =	214-0280	432K =	214-0399	3M83 =	214-0518
665R =	214-0043	5K76 =	214-0163	51K =	214-0281	442K =	214-0400	3M9 =	214-0519
680R =	214-0045	5K9 =	214-0164	51K1 =	214-0282	453K =	214-0401	3M92 =	214-0520
681R =	214-0046	6K04 =	214-0165	52K3 =	214-0283	464K =	214-0402	4M02 =	214-0521
698R =	214-0047	6K19 =	214-0166	53K6 =	214-0284	470K =	214-0403	4M12 =	214-0522
715R =	214-0048	6K2 =	214-0167	54K9 =	214-0285	475K =	214-0404	4M22 =	214-0523
732R =	214-0049	6K34 =	214-0168	56K =	214-0286	487K =	214-0405	4M3 =	214-0525
750R =	214-0050	6K49 =	214-0169	56K2 =	214-0288	499K =	214-0406	4M32 =	214-0526
768R =	214-0051	6K65 =	214-0170	57K6 =	214-0289	510K =	214-0407	4M42 =	214-0527
787R =	214-0052	6K8 =	214-0171	59K =	214-0290	511K =	214-0409	4M53 =	214-0528
806R =	214-0053	6K81 =	214-0173	60K4 =	214-0291	523K =	214-0411	4M64 =	214-0529
820R =	214-0054	6K98 =	214-0174	61K9 =	214-0292	536K =	214-0412	4M7 =	214-0530
825R =	214-0055	7K15 =	214-0175	62K =	214-0293	549K =	214-0413	4M75 =	214-0531
845R =	214-0057	7K32 =	214-0176	63K4 =	214-0294	560K =	214-0414	4M87 =	214-0532
866R =	214-0058	7K5 =	214-0177	64K9 =	214-0295	562K =	214-0415	4M99 =	214-0533
887R =	214-0059	7K68 =	214-0178	66K5 =	214-0296	576K =	214-0416	5M1 =	214-0534
909R =	214-0060	7K87 =	214-0179	68K =	214-0297	590K =	214-0417	5M11 =	214-0535
910R =	214-0061	8K06 =	214-0180	68K1 =	214-0298	604K =	214-0418	5M23 =	214-0537
931R =	214-0062	8K2 =	214-0181	69K8 =	214-0300	619K =	214-0419	5M36 =	214-0538
953R =	214-0063	8K25 =	214-0182	71K5 =	214-0301	620K =	214-0420	5M49 =	214-0539
976R =	214-0064	8K45 =	214-0183	73K2 =	214-0302	634K =	214-0422	5M6 =	214-0540
1K =	214-0065	8K66 =	214-0185	75K =	214-0303	649K =	214-0423	5M62 =	214-0541
1K02 =	214-0066	8K87 =	214-0186	76K8 =	214-0304	665K =	214-0424	5M76 =	214-0542
1K05 =	214-0067	9K09 =	214-0187	78K7 =	214-0306	680K =	214-0425	5M9 =	214-0543
1K07 =	214-0069	9K1 =	214-0188	80K6 =	214-0307	681K =	214-0426	6M04 =	214-0544
1K1 =	214-0071	9K31 =	214-0189	82K =	214-0308	698K =	214-0427	6M19 =	214-0545
1K13 =	214-0072	9K53 =	214-0190	82K5 =	214-0309	715K =	214-0428	6M2 =	214-0546
1K15 =	214-0073	9K76 =	214-0191	84K5 =	214-0310	732K =	214-0429	6M34 =	214-0547
1K18 =	214-0074	10K =	214-0192	86K6 =	214-0311	750K =	214-0430	6M49 =	214-0549
1K2 =	214-0075	10K2 =	214-0193	88K7 =	214-0312	768K =	214-0431	6M65 =	214-0551
1K21 =	214-0076	10K5 =	214-0194	90K9 =	214-0313	787K =	214-0432	6M8 =	214-0552
1K24 =	214-0077	10K7 =	214-0195	91K =	214-0314	806K =	214-0434	6M81 =	214-0553
1K27 =	214-0078	11K =	214-0197	93K1 =	214-0315	820K =	214-0435	6M98 =	214-0554
1K3 =	214-0079	11K3 =	214-0198	95K3 =	214-0316	825K =	214-0436	7M15 =	214-0555
1K33 =	214-0080	11K5 =	214-0199	97K6 =	214-0318	845K =	214-0437	7M32 =	214-0556
1K37 =	214-0082	11K8 =	214-0200	100K =	214-0319	866K =	214-0438	7M5 =	214-0557
1K4 =	214-0083	12K =	214-0201	102K =	214-0320	887K =	214-0439	7M68 =	214-0558
1K43 =	214-0084	12K1 =	214-0203	105K =	214-0321	909K =	214-0440	7M87 =	214-0559
1K47 =	214-0085	12K4 =	214-0204	107K =	214-0322	910K =	214-0441	8M06 =	214-0560
1K5 =	214-0086	12K7 =	214-0205	110K =	214-0323	931K =	214-0442	8M2 =	214-0562
1K54 =	214-0087	13K =	214-0206	113K =	214-0324	953K =	214-0443	8M25 =	214-0563
1K58 =	214-0088	13K3 =	214-0207	115K =	214-0325	976K =	214-0444	8M45 =	214-0564
1K6 =	214-0089	13K7 =	214-0208	118K =	214-0326	1M =	214-0446	8M66 =	214-0565
1K62 =	214-0090	14K =	214-0209	120K =	214-0327	1M02 =	214-0447	8M87 =	214-0566

RoHS ● Compliant ▲ Non-compliant

9M09 = **214-0567** 9M31 = **214-0569** 9M53 = **214-0570** 9M76 = **214-0571** 10M = **214-0572**
9M1 = **214-0568**

Order Code	Price Each 50+	250+	500+	1K+	5K+
All Values ● RL					

0402 Case Size

Stocked in the following OHMIC Values:

0R **146-9661**	69R8 **214-0660**	511R **165-2805**	3K83 **165-2793**	28K **214-0888**
10R **165-2742**	71R5 **214-0661**	523R **214-0746**	3K9 **214-0826**	28K7 **214-0889**
10R2 **214-0574**	73R2 **214-0662**	536R **214-0747**	3K92 **146-9703**	29K4 **214-0890**
10R5 **214-0575**	75R **146-9734**	549R **214-0748**	4K02 **169-2515**	30K **214-0891**
10R7 **214-0576**	76R8 **214-0663**	560R **214-0749**	4K12 **165-2802**	30K1 **146-9704**
11R **214-0577**	78R7 **214-0665**	562R **165-2807**	4K22 **214-0827**	30K9 **214-0892**
11R3 **214-0578**	80R6 **146-9737**	576R **214-0750**	4K3 **214-0828**	31K6 **165-2784**
11R5 **214-0579**	82R **214-0666**	590R **214-0751**	4K32 **214-0829**	32K4 **170-3764**
11R8 **214-0580**	82R5 **214-0667**	604R **214-0752**	4K42 **146-9711**	33K **214-0893**
12R **214-0581**	84R5 **165-2820**	619R **214-0753**	4K53 **214-0830**	33K2 **146-9706**
12R1 **214-0582**	86R6 **214-0668**	620R **214-0754**	4K64 **165-2803**	34K **214-0894**
12R4 **214-0583**	88R7 **214-0669**	634R **214-0756**	4K7 **146-9712**	34K8 **214-0896**
12R7 **214-0584**	90R9 **214-0670**	649R **214-0757**	4K75 **146-9713**	35K7 **214-0897**
13R **214-0586**	91R **214-0671**	665R **214-0758**	4K87 **146-9714**	36K **214-0898**
13R3 **214-0587**	93R1 **214-0672**	680R **214-0759**	4K99 **146-9715**	36K5 **214-0899**
13R7 **214-0588**	95R3 **214-0673**	681R **165-2815**	5K1 **214-0831**	37K4 **214-0900**
14R **214-0589**	97R6 **214-0674**	698R **214-0760**	5K11 **146-9725**	38K3 **214-0902**
14R3 **214-0590**	100R **146-9672**	715R **146-9731**	5K23 **214-0832**	39K **214-0903**
14R7 **214-0591**	102R **214-0675**	732R **214-0761**	5K36 **214-0833**	39K2 **165-2790**
15R **165-2755**	105R **214-0677**	750R **146-9735**	5K49 **214-0835**	40K2 **165-2794**
15R4 **214-0592**	107R **214-0678**	768R **214-0762**	5K6 **214-0836**	41K2 **146-9716**
15R8 **214-0593**	110R **146-9675**	787R **214-0763**	5K62 **214-0837**	42K2 **214-0904**
16R **214-0594**	113R **214-0679**	806R **214-0764**	5K76 **214-0838**	43K **214-0905**
16R2 **214-0595**	115R **214-0680**	820R **214-0765**	5K9 **214-0839**	43K2 **146-9717**
16R5 **214-0596**	118R **214-0681**	825R **214-0766**	6K04 **165-2818**	44K2 **214-0906**
16R9 **214-0598**	120R **214-0682**	845R **214-0768**	6K19 **214-0840**	45K3 **146-9718**
17R4 **214-0599**	121R **165-2745**	866R **214-0769**	6K2 **214-0841**	46K4 **214-0907**
17R8 **214-0600**	124R **146-9676**	887R **169-2516**	6K34 **214-0842**	47K **146-9719**
18R **214-0601**	127R **214-0683**	909R **214-0770**	6K49 **146-9727**	47K5 **165-2799**
18R2 **165-2763**	130R **165-2749**	910R **214-0771**	6K65 **214-0843**	48K7 **214-0908**
18R7 **214-0602**	133R **214-0684**	931R **214-0772**	6K8 **214-0844**	49K9 **146-9720**
19R1 **214-0604**	137R **214-0685**	953R **214-0773**	6K81 **165-2819**	51K **214-0909**
19R6 **214-0605**	140R **214-0686**	976R **214-0774**	6K98 **214-0845**	51K1 **165-2806**
20R **165-2769**	143R **214-0687**	1K **146-9662**	7K15 **214-0847**	52K3 **214-0910**
20R5 **169-2510**	147R **214-0689**	1K02 **214-0775**	7K32 **214-0848**	53K6 **214-0911**
21R **214-0606**	150R **165-2754**	1K05 **214-0776**	7K5 **146-9729**	54K9 **214-0912**
21R5 **165-2774**	154R **214-0691**	1K07 **214-0777**	7K68 **214-0849**	56K **214-0914**
22R **146-9697**	158R **214-0692**	1K1 **214-0778**	7K87 **214-0850**	56K2 **165-2808**
22R1 **146-9698**	160R **214-0693**	1K13 **170-3773**	8K06 **165-2821**	57K6 **214-0915**
22R6 **214-0607**	162R **214-0694**	1K15 **214-0781**	8K2 **214-0851**	59K **165-2809**
23R2 **214-0608**	165R **214-0695**	1K18 **214-0782**	8K25 **165-2822**	60K4 **165-2810**
23R7 **214-0609**	169R **214-0696**	1K2 **214-0783**	8K45 **214-0852**	61K9 **165-2811**
24R **214-0610**	174R **214-0697**	1K21 **165-2766**	8K66 **214-0853**	62K **214-0916**
24R3 **165-2777**	178R **165-2761**	1K24 **146-9663**	8K87 **214-0854**	63K4 **214-0917**
24R9 **146-9700**	180R **214-0698**	1K27 **214-0784**	9K09 **165-2823**	64K9 **165-2812**
25R5 **214-0611**	182R **214-0699**	1K3 **214-0785**	9K1 **214-0855**	66K5 **165-2814**
26R1 **214-0612**	187R **214-0700**	1K33 **214-0786**	9K31 **214-0856**	68K **214-0918**
26R7 **214-0613**	191R **165-2765**	1K37 **214-0787**	9K53 **214-0857**	68K1 **170-3765**
27R **214-0614**	196R **214-0701**	1K4 **146-9664**	9K76 **146-9738**	69K8 **214-0919**
27R4 **214-0616**	200R **146-9695**	1K43 **214-0788**	10K **146-9669**	71K5 **146-9730**
28R **214-0617**	205R **214-0702**	1K47 **214-0789**	10K2 **214-0859**	73K2 **214-0920**
28R7 **214-0618**	210R **165-2770**	1K5 **165-3201**	10K5 **214-0861**	75K **146-9732**
29R4 **214-0619**	215R **214-0703**	1K54 **214-0790**	10K7 **214-0862**	76K8 **214-0921**
30R **214-0620**	220R **214-0704**	1K58 **214-0791**	11K **146-9673**	78K7 **214-0922**
30R1 **146-9705**	221R **214-0705**	1K6 **214-0793**	11K3 **214-0863**	80K6 **146-9736**
30R9 **214-0621**	226R **214-0707**	1K62 **214-0794**	11K5 **214-0864**	82K **214-0923**
31R6 **214-0622**	232R **214-0708**	1K65 **214-0795**	11K8 **214-0865**	82K5 **214-0924**
32R4 **214-0623**	237R **214-0709**	1K69 **146-9665**	12K **214-0866**	84K5 **214-0926**
33R **165-2785**	240R **214-0710**	1K74 **165-2767**	12K1 **165-2747**	86K6 **214-0927**
33R2 **165-2786**	243R **214-0711**	1K78 **214-0796**	12K4 **165-2748**	88K7 **214-0928**
34R **214-0624**	249R **146-9701**	1K8 **214-0797**	12K7 **214-0867**	90K9 **214-0929**
34R8 **214-0625**	255R **214-0712**	1K82 **214-0798**	13K **146-9677**	91K **214-0930**
35R7 **214-0626**	261R **214-0713**	1K87 **214-0799**	13K3 **165-2750**	93K1 **214-0931**
36R **214-0628**	267R **214-0714**	1K91 **165-2768**	13K7 **165-2751**	95K3 **214-0932**
36R5 **214-0629**	270R **214-0715**	1K96 **214-0800**	14K **146-9682**	97K6 **214-0933**
37R4 **169-2514**	274R **214-0716**	2K **146-9688**	14K3 **214-0868**	100K **146-9671**
38R3 **214-0630**	280R **214-0717**	2K05 **214-0801**	14K7 **214-0869**	102K **214-0934**
39R **214-0631**	287R **214-0719**	2K1 **170-3762**	15K **146-9683**	105K **169-2507**
39R2 **214-0632**	294R **214-0721**	2K15 **169-2512**	15K4 **169-2509**	107K **214-0935**
40R2 **165-2796**	300R **214-0722**	2K2 **214-0802**	15K8 **146-9684**	110K **146-9674**
41R2 **214-0633**	301R **165-2781**	2K21 **146-9689**	16K **214-0870**	113K **214-0936**
42R2 **214-0634**	309R **214-0723**	2K26 **214-0803**	16K2 **146-9685**	115K **214-0938**
43R **214-0635**	316R **214-0724**	2K32 **214-0804**	16K5 **165-2756**	118K **165-2743**
43R2 **165-2797**	324R **214-0725**	2K37 **214-0805**	16K9 **165-2757**	120K **169-2508**
44R2 **214-0636**	330R **146-9709**	2K4 **214-0806**	17K4 **214-0872**	121K **165-2744**
45R3 **214-0637**	332R **214-0726**	2K43 **165-2779**	17K8 **214-0873**	124K **214-0939**
46R4 **214-0638**	340R **214-0727**	2K49 **146-9690**	18K **214-0874**	127K **214-0940**
47R **214-0641**	348R **165-2787**	2K55 **214-0807**	18K2 **165-2762**	130K **146-9679**
47R5 **214-0642**	357R **214-0728**	2K61 **214-0808**	18K7 **214-0875**	133K **214-0941**
48R7 **214-0643**	360R **214-0729**	2K67 **214-0811**	19K1 **214-0876**	137K **214-0942**
49R9 **146-9722**	365R **165-2788**	2K7 **214-0812**	19K6 **214-0877**	140K **214-0943**
51R **214-0644**	374R **214-0730**	2K74 **146-9692**	20K **146-9693**	143K **214-0944**
51R1 **146-9726**	383R **214-0732**	2K8 **165-2780**	20K5 **214-0878**	147K **165-2752**
52R3 **214-0645**	390R **214-0733**	2K87 **214-0813**	21K **214-0879**	150K **165-2753**
53R6 **214-0646**	392R **165-2789**	2K94 **214-0814**	21K5 **165-2773**	154K **214-0945**
54R9 **214-0647**	402R **214-0734**	3K **146-9702**	22K **165-2775**	158K **214-0946**
56R **214-0648**	412R **214-0735**	3K01 **214-0815**	22K1 **146-9696**	160K **214-0947**
56R2 **214-0649**	422R **214-0736**	3K09 **214-0816**	22K6 **214-0880**	162K **146-9686**
57R6 **214-0650**	430R **214-0737**	3K16 **165-2791**	23K2 **214-0881**	165K **214-0948**
59R **214-0651**	432R **214-0738**	3K24 **214-0817**	23K7 **165-2776**	169K **214-0951**
60R4 **214-0653**	442R **214-0739**	3K3 **214-0818**	24K **214-0882**	174K **214-0952**
61R9 **214-0654**	453R **214-0740**	3K32 **165-2792**	24K3 **214-0884**	178K **165-2759**
62R **214-0655**	464R **214-0741**	3K4 **214-0819**	24K9 **146-9699**	180K **214-0953**
63R4 **214-0656**	470R **214-0742**	3K48 **214-0820**	25K5 **165-2778**	182K **146-9687**
64R9 **214-0657**	475R **165-2798**	3K57 **214-0821**	26K1 **214-0885**	187K **214-0954**
66R5 **214-0658**	487R **214-0744**	3K6 **214-0823**	26K7 **214-0886**	191K **165-2764**
68R **214-0659**	499R **146-9724**	3K65 **214-0824**	27K **214-0887**	196K **214-0955**
68R1 **165-2816**	510R **214-0745**	3K74 **214-0825**	27K4 **169-2511**	200K **146-9694**

205K **214-0956**	442K **214-0997**	953K **214-1038**	2M21 **214-1080**	4M7 **214-1123**
210K **214-0957**	453K **214-0999**	976K **214-1039**	2M26 **214-1081**	4M75 **214-1124**
215K **165-2772**	464K **214-1001**	1M **146-9667**	2M32 **214-1082**	4M87 **214-1125**
220K **214-0958**	470K **214-1002**	1M02 **214-1040**	2M37 **214-1083**	4M99 **214-1126**
221K **214-0959**	475K **214-1003**	1M05 **214-1041**	2M4 **214-1084**	5M1 **214-1128**
226K **214-0960**	487K **214-1004**	1M07 **214-1042**	2M43 **214-1086**	5M11 **214-1129**
232K **214-0961**	499K **146-9723**	1M1 **214-1043**	2M49 **214-1087**	5M23 **214-1130**
237K **214-0963**	510K **214-1005**	1M13 **214-1044**	2M55 **214-1088**	5M36 **214-1131**
240K **214-0964**	511K **165-2804**	1M15 **214-1045**	2M61 **214-1089**	5M49 **214-1132**
243K **214-0965**	523K **214-1006**	1M18 **214-1046**	2M67 **214-1090**	5M6 **214-1133**
249K **214-0966**	536K **214-1007**	1M2 **214-1047**	2M7 **214-1091**	5M62 **214-1134**
255K **214-0967**	549K **214-1008**	1M21 **214-1049**	2M74 **214-1092**	5M76 **214-1135**
261K **214-0968**	560K **214-1009**	1M24 **214-1051**	2M8 **214-1093**	5M9 **214-1136**
267K **214-0969**	562K **214-1010**	1M27 **214-1052**	2M87 **214-1094**	6M04 **214-1137**
270K **214-0970**	576K **214-1011**	1M3 **214-1053**	2M94 **214-1095**	6M19 **214-1138**
274K **214-0971**	590K **214-1013**	1M33 **214-1054**	3M **214-1096**	6M2 **214-1141**
280K **214-0972**	604K **214-1014**	1M37 **214-1055**	3M01 **214-1098**	6M34 **214-1142**
287K **214-0973**	619K **214-1015**	1M4 **214-1056**	3M09 **214-1099**	6M49 **214-1143**
294K **214-0975**	620K **214-1016**	1M43 **214-1057**	3M16 **214-1100**	6M65 **214-1144**
300K **214-0976**	634K **214-1017**	1M47 **214-1058**	3M24 **214-1101**	6M8 **214-1145**
301K **214-0977**	649K **214-1018**	1M5 **214-1059**	3M3 **214-1102**	6M81 **214-1146**
309K **214-0978**	665K **214-1019**	1M54 **214-1060**	3M32 **214-1104**	6M98 **214-1147**
316K **165-2782**	680K **214-1020**	1M58 **214-1062**	3M4 **214-1105**	7M15 **214-1148**
324K **214-0979**	681K **214-1021**	1M6 **214-1063**	3M48 **214-1106**	7M32 **214-1149**
330K **214-0980**	698K **165-2817**	1M62 **214-1064**	3M57 **214-1107**	7M5 **214-1150**
332K **214-0981**	715K **214-1022**	1M65 **214-1065**	3M6 **214-1108**	7M68 **214-1151**
340K **214-0982**	732K **214-1023**	1M69 **214-1066**	3M65 **214-1109**	7M87 **214-1153**
348K **214-0983**	750K **214-1025**	1M74 **214-1067**	3M74 **214-1110**	8M06 **214-1154**
357K **214-0984**	768K **214-1026**	1M78 **214-1068**	3M83 **214-1111**	8M2 **214-1155**
360K **214-0985**	787K **214-1027**	1M8 **214-1069**	3M9 **214-1112**	8M25 **214-1156**
365K **214-0987**	806K **214-1028**	1M82 **214-1070**	3M92 **214-1113**	8M45 **214-1157**
374K **214-0988**	820K **214-1029**	1M87 **214-1071**	4M02 **214-1114**	8M66 **214-1158**
383K **214-0989**	825K **214-1030**	1M91 **214-1072**	4M12 **214-1116**	8M87 **214-1159**
390K **214-0990**	845K **214-1031**	1M96 **214-1074**	4M22 **214-1117**	9M09 **214-1160**
392K **214-0991**	866K **214-1032**	2M **214-1075**	4M3 **214-1118**	9M1 **214-1161**
402K **214-0992**	887K **214-1033**	2M05 **214-1076**	4M32 **214-1119**	9M31 **214-1162**
412K **214-0993**	909K **214-1034**	2M1 **214-1077**	4M42 **214-1120**	9M53 **214-1163**
422K **214-0994**	910K **214-1035**	2M15 **214-1078**	4M53 **214-1121**	9M76 **214-1165**
430K **214-0995**	931K **214-1037**	2M2 **214-1079**	4M64 **214-1122**	10M **146-9670**
432K **214-0996**				

Order Code	Price Each 50+	250+	500+	1K+	5K+
All Values ● RL					

0603 Case Size

Stocked in the following OHMIC Values:

0R **146-9739**	34R **214-1223**	113R **214-1283**	383R **214-1335**	1K27 **165-2853**
10R **146-9751**	34R8 **214-1224**	115R **214-1284**	390R **165-2875**	1K3 **213-8358**
10R2 **214-1166**	35R7 **214-1225**	118R **214-1285**	392R **214-1336**	1K33 **213-8361**
10R5 **214-1167**	36R **214-1226**	120R **165-2832**	402R **214-1337**	1K37 **213-8362**
10R7 **214-1168**	36R5 **214-1227**	121R **165-2833**	412R **214-1338**	1K4 **146-9742**
11R **214-1169**	37R4 **214-1228**	124R **214-1286**	422R **214-1339**	1K43 **213-8363**
11R3 **214-1170**	38R3 **214-1229**	127R **214-1287**	430R **214-1340**	1K47 **213-8364**
11R5 **214-1171**	39R **214-1230**	130R **214-1288**	432R **214-1341**	1K5 **146-9743**
11R8 **214-1172**	39R2 **214-1232**	133R **214-1289**	442R **214-1342**	1K54 **213-8365**
12R **165-2838**	40R2 **214-1233**	137R **214-1290**	453R **214-1343**	1K58 **213-8366**
12R1 **214-1173**	41R2 **214-1234**	140R **214-1291**	464R **165-2880**	1K6 **213-8367**
12R4 **214-1174**	42R2 **214-1235**	143R **214-1293**	470R **146-9815**	1K62 **213-8368**
12R7 **214-1175**	43R **214-1236**	147R **214-1294**	475R **146-9816**	1K65 **213-8369**
13R **214-1177**	43R2 **214-1237**	150R **146-9760**	487R **214-1344**	1K69 **169-2520**
13R3 **214-1178**	44R2 **214-1238**	154R **214-1295**	499R **146-9818**	1K74 **213-8370**
13R7 **214-1179**	45R3 **214-1239**	158R **214-1296**	510R **146-9826**	1K78 **213-8371**
14R **214-1180**	46R4 **214-1240**	160R **214-1297**	511R **165-2888**	1K8 **165-2854**
14R3 **214-1181**	47R **214-1241**	162R **214-1298**	523R **214-1345**	1K82 **165-2855**
14R7 **214-1182**	47R5 **214-1242**	165R **214-1299**	536R **214-1347**	1K87 **146-9744**
15R **165-2841**	48R7 **214-1244**	169R **214-1300**	549R **214-1348**	1K91 **213-8373**
15R4 **214-1183**	49R9 **146-9817**	174R **214-1301**	560R **146-9828**	1K96 **213-8374**
15R8 **214-1184**	51R **165-2889**	178R **214-1302**	562R **165-2891**	2K **146-9764**
16R **214-1185**	51R1 **165-2890**	180R **146-9762**	576R **214-1349**	2K05 **213-8375**
16R2 **214-1186**	52R3 **214-1245**	182R **214-1303**	590R **214-1350**	2K1 **213-8376**
16R5 **214-1187**	53R6 **214-1246**	187R **214-1304**	604R **165-2895**	2K15 **165-2867**
16R9 **214-1189**	54R9 **214-1247**	191R **214-1305**	619R **214-1351**	2K2 **146-9765**
17R4 **214-1191**	56R **214-1248**	196R **214-1306**	620R **214-1352**	2K21 **165-2869**
17R8 **214-1192**	56R2 **214-1249**	200R **146-9777**	634R **214-1353**	2K26 **213-8377**
18R **165-2846**	57R6 **214-1250**	205R **214-1307**	649R **214-1354**	2K32 **213-8378**
18R2 **214-1193**	59R **214-1251**	210R **214-1308**	665R **214-1355**	2K37 **213-8379**
18R7 **214-1194**	60R4 **214-1252**	215R **214-1311**	680R **146-9834**	2K4 **146-9766**
19R1 **214-1195**	61R9 **214-1253**	220R **165-2857**	681R **165-2896**	2K43 **213-8380**
19R6 **214-1196**	62R **214-1254**	221R **165-2860**	698R **214-1356**	2K49 **146-9767**
20R **165-2856**	63R4 **214-1256**	226R **214-1312**	715R **214-1357**	2K55 **213-8381**
20R5 **214-1197**	64R9 **214-1257**	232R **214-1313**	732R **214-1359**	2K61 **213-8382**
21R **214-1198**	66R5 **214-1258**	237R **214-1314**	750R **165-2900**	2K67 **213-8383**
21R5 **214-1199**	68R **146-9833**	240R **165-2863**	768R **214-1361**	2K7 **146-9768**
22R **146-9781**	68R1 **214-1259**	243R **214-1315**	787R **214-1362**	2K74 **146-9771**
22R1 **214-1200**	69R8 **214-1260**	249R **214-1316**	806R **214-1363**	2K8 **146-9772**
22R6 **214-1201**	71R5 **214-1261**	255R **214-1317**	820R **146-9841**	2K87 **213-8385**
23R2 **214-1202**	73R2 **214-1262**	261R **214-1318**	825R **214-1364**	2K94 **213-8386**
23R7 **214-1203**	75R **146-9838**	267R **214-1319**	845R **213-8341**	3K **146-9790**
24R **214-1204**	76R8 **214-1263**	270R **214-1320**	866R **213-8342**	3K01 **146-9791**
24R3 **214-1205**	78R7 **214-1264**	274R **146-9788**	887R **213-8343**	3K09 **213-8387**
24R9 **214-1207**	80R6 **214-1265**	280R **214-1321**	909R **213-8344**	3K16 **146-9792**
25R5 **214-1208**	82R **214-1266**	287R **214-1323**	910R **213-8345**	3K24 **165-2877**
26R1 **214-1209**	82R5 **214-1268**	294R **214-1324**	931R **213-8346**	3K3 **146-9793**
26R7 **214-1210**	84R5 **214-1269**	300R **146-9799**	953R **213-8348**	3K32 **146-9795**
27R **214-1211**	86R6 **214-1270**	301R **214-1325**	976R **213-8349**	3K4 **213-8388**
27R4 **214-1212**	88R7 **214-1271**	309R **214-1326**	1K **146-9740**	3K48 **213-8389**
28R **214-1213**	90R9 **214-1272**	316R **214-1327**	1K02 **213-8350**	3K57 **213-8390**
28R7 **214-1214**	91R **214-1273**	324R **214-1328**	1K05 **213-8351**	3K6 **165-2878**
29R4 **214-1215**	93R1 **214-1274**	330R **146-9803**	1K07 **213-8352**	3K65 **213-8391**
30R **214-1216**	95R3 **214-1275**	332R **165-2872**	1K1 **213-8353**	3K74 **213-8392**
30R1 **214-1217**	97R6 **214-1276**	340R **214-1329**	1K13 **213-8354**	3K83 **213-8393**
30R9 **214-1219**	100R **146-9752**	348R **214-1330**	1K15 **213-8355**	3K9 **146-9796**
31R6 **214-1221**	102R **214-1277**	357R **214-1331**	1K18 **213-8356**	3K92 **213-8394**
32R4 **214-1222**	105R **214-1278**	360R **169-2526**	1K2 **146-9741**	4K02 **146-9805**
33R **146-9802**	107R **214-1281**	365R **214-1332**	1K21 **165-2852**	4K12 **165-2883**
33R2 **165-2873**	110R **214-1282**	374R **214-1333**	1K24 **213-8357**	4K22 **213-8395**

CRCW Series EACH - continued

0402 Case Size - continued

4K3	213-8397	21K5	146-9778	95K3	213-8495	464K	213-8565	2M26	213-8648
4K32	146-9806	22K	146-9779	97K6	213-8496	470K	146-9814	2M32	213-8649
4K42	213-8398	22K1	146-9780	100K	146-9649	475K	213-8567	2M37	213-8650
4K53	213-8399	22K6	213-8444	102K	213-8497	487K	213-8568	2M4	213-8651
4K64	213-8400	23K2	165-2861	105K	213-8498	499K	213-8569	2M43	213-8652
4K7	146-9807	23K7	213-8445	107K	213-8500	510K	213-8570	2M49	165-2870
4K75	146-9808	24K	146-9784	110K	213-8501	511K	213-8571	2M55	213-8653
4K87	169-2529	24K3	213-8446	113K	213-8502	523K	213-8572	2M61	213-8654
4K99	165-2885	24K9	146-9785	115K	213-8503	536K	213-8573	2M67	213-8655
5K1	146-9819	25K5	213-8447	118K	213-8504	549K	213-8574	2M7	213-8656
5K11	213-8401	26K1	213-8448	120K	213-8506	560K	213-8575	2M74	213-8658
5K23	165-2893	26K7	213-8449	121K	213-8507	562K	213-8576	2M8	213-8659
5K36	213-8403	27K	165-2864	124K	213-8508	576K	213-8577	2M87	213-8660
5K49	213-8404	27K4	165-2865	127K	213-8509	590K	213-8579	2M94	213-8661
5K6	146-9820	28K	213-8450	130K	146-9754	604K	213-8581	3M	146-9650
5K62	213-8405	28K7	165-2866	133K	213-8510	619K	213-8582	3M01	213-8662
5K76	213-8406	29K4	213-8452	137K	213-8511	620K	213-8583	3M09	213-8663
5K9	213-8407	30K	146-9797	140K	213-8512	634K	213-8584	3M16	213-8664
6K04	146-9829	30K1	146-9798	143K	213-8513	649K	213-8585	3M24	213-8665
6K19	146-9830	30K9	213-8453	147K	213-8514	665K	213-8586	3M3	213-8666
6K2	213-8408	31K6	213-8454	150K	146-9759	680K	213-8587	3M32	213-8667
6K34	213-8409	32K4	213-8455	154K	213-8515	681K	213-8588	3M4	213-8668
6K49	165-2897	33K	146-9801	158K	213-8516	698K	213-8589	3M48	213-8671
6K65	213-8410	33K2	169-2523	160K	213-8518	715K	213-8590	3M57	213-8672
6K8	146-9831	34K	213-8456	162K	213-8519	732K	213-8592	3M6	213-8673
6K81	165-2899	34K8	213-8457	165K	213-8520	750K	213-8593	3M65	213-8674
6K98	213-8411	35K7	213-8458	169K	213-8521	768K	213-8594	3M74	213-8675
7K15	213-8412	36K	213-8459	174K	213-8522	787K	213-8595	3M83	213-8676
7K32	213-8413	36K5	213-8460	178K	146-9761	806K	213-8596	3M9	213-8677
7K5	146-9835	37K4	213-8461	180K	165-2843	820K	213-8597	3M92	213-8678
7K68	213-8415	38K3	213-8462	182K	213-8523	825K	213-8598	4M02	213-8679
7K87	213-8416	39K	146-9804	187K	165-2844	845K	213-8599	4M12	213-8680
8K06	213-8417	39K2	213-8464	191K	213-8524	866K	213-8600	4M22	213-8681
8K2	165-2902	40K2	169-2527	196K	213-8525	887K	213-8601	4M3	213-8683
8K25	146-9839	41K2	213-8465	200K	146-9776	909K	213-8602	4M32	213-8684
8K45	213-8418	42K2	165-2879	205K	213-8526	910K	213-8603	4M42	213-8685
8K66	213-8419	43K	146-9809	210K	213-8527	931K	213-8604	4M53	213-8686
8K87	213-8420	43K2	146-9810	215K	213-8528	953K	213-8605	4M64	213-8687
9K09	213-8421	44K2	213-8466	220K	146-9783	976K	213-8606	4M7	213-8688
9K1	146-9842	45K3	213-8467	221K	165-2859	1M	146-9746	4M75	165-2887
9K31	146-9843	46K4	213-8468	226K	213-8531	1M02	213-8607	4M87	213-8689
9K53	146-9844	47K	146-9811	232K	213-8532	1M05	213-8609	4M99	213-8690
9K76	213-8422	47K5	146-9813	237K	213-8533	1M07	213-8611	5M1	213-8691
10K	146-9748	48K7	213-8469	240K	146-9786	1M1	213-8612	5M11	213-8692
10K2	165-2829	49K9	165-2882	243K	213-8534	1M13	213-8613	5M23	213-8693
10K5	213-8423	51K	146-9822	249K	146-9787	1M15	213-8614	5M36	213-8695
10K7	165-2830	51K1	146-9825	255K	213-8535	1M18	213-8615	5M49	213-8696
11K	213-8424	52K3	213-8470	261K	213-8536	1M2	213-8616	5M6	213-8697
11K3	213-8425	53K6	213-8471	267K	213-8537	1M21	213-8617	5M62	213-8698
11K5	146-9753	54K9	213-8472	270K	213-8538	1M24	213-8618	5M76	213-8699
11K8	213-8427	56K	213-8473	274K	213-8539	1M27	213-8619	5M9	213-8701
12K	165-2834	56K2	146-9827	280K	146-9789	1M3	213-8620	6M04	213-8702
12K1	165-2835	57K6	213-8474	287K	213-8540	1M33	213-8622	6M19	213-8703
12K4	165-2836	59K	165-2892	294K	213-8541	1M37	213-8623	6M2	213-8704
12K7	213-8428	60K4	213-8476	300K	165-2871	1M4	213-8624	6M34	213-8705
13K	165-2839	61K9	213-8477	301K	213-8543	1M43	213-8625	6M49	213-8706
13K3	165-2840	62K	213-8478	309K	213-8544	1M47	213-8626	6M65	213-8707
13K7	213-8429	63K4	213-8479	316K	213-8545	1M5	213-8627	6M8	213-8708
14K	146-9755	64K9	213-8480	324K	213-8546	1M54	213-8628	6M81	213-8709
14K3	213-8430	66K5	213-8481	330K	213-8547	1M58	213-8629	6M98	213-8710
14K7	146-9756	68K	146-9832	332K	213-8548	1M6	213-8630	7M15	213-8711
15K	146-9758	68K1	213-8482	340K	213-8549	1M62	213-8631	7M32	213-8713
15K4	213-8431	69K8	213-8483	348K	213-8550	1M65	213-8632	7M5	213-8714
15K8	213-8432	71K5	146-9837	357K	213-8551	1M69	213-8634	7M68	213-8715
16K	213-8433	73K2	213-8484	360K	213-8552	1M74	213-8635	7M87	213-8716
16K2	213-8434	75K	213-8485	365K	213-8553	1M78	213-8636	8M06	213-8717
16K5	165-2842	76K8	213-8486	374K	213-8555	1M8	213-8637	8M2	213-8718
16K9	213-8435	78K7	213-8488	383K	213-8556	1M82	213-8638	8M25	213-8719
17K4	213-8436	80K6	213-8489	390K	213-8557	1M87	213-8639	8M45	213-8720
17K8	213-8437	82K	213-8490	392K	165-2876	1M91	213-8640	8M66	213-8721
18K	169-2519	82K5	146-9840	402K	213-8558	1M96	213-8641	8M87	213-8722
18K2	165-2845	84K5	213-8491	412K	213-8559	2M	146-9773	9M09	213-8723
18K7	213-8439	86K6	165-2901	422K	213-8560	2M05	213-8642	9M1	213-8725
19K1	213-8441	88K7	213-8492	430K	213-8561	2M1	213-8643	9M31	213-8726
19K6	213-8442	90K9	213-8493	432K	213-8562	2M15	213-8644	9M53	213-8727
20K	146-9774	91K	146-9845	442K	213-8563	2M2	213-8646	9M76	213-8728
20K5	146-9775	93K1	213-8494	453K	213-8564	2M21	213-8647	10M	146-9750
21K	213-8443								

Order Code	Price Each 50+	250+	500+	1K+	+
All Values ● RL					

0805 Case Size

Stocked in the following OHMIC Values:

0R =	146-9846	14R3 =	213-8745	20R5 =	213-8765	28R7 =	213-8781	39R2 =	213-8799
10R =	146-9859	14R7 =	213-8746	21R =	213-8766	29R4 =	213-8782	40R2 =	213-8800
10R2 =	213-8729	15R =	213-8747	21R5 =	213-8767	30R =	213-8783	41R2 =	213-8801
10R5 =	213-8730	15R4 =	213-8749	22R =	165-2962	30R1 =	213-8784	42R2 =	213-8802
10R7 =	213-8731	15R8 =	213-8751	22R1 =	213-8768	30R9 =	213-8786	43R =	213-8804
11R =	213-8732	16R =	213-8752	22R6 =	213-8769	31R6 =	213-8787	43R2 =	213-8805
11R3 =	213-8733	16R2 =	213-8753	23R2 =	213-8770	32R4 =	213-8788	44R2 =	213-8806
11R5 =	213-8734	16R5 =	213-8754	23R7 =	213-8771	33R =	165-2986	45R3 =	213-8807
11R8 =	213-8735	16R9 =	213-8755	24R =	213-8772	33R2 =	213-8789	46R4 =	213-8808
12R =	213-8737	17R4 =	213-8756	24R3 =	213-8774	34R =	213-8790	47R =	165-3007
12R1 =	213-8738	17R8 =	213-8757	24R9 =	165-2966	34R8 =	213-8791	47R5 =	146-9931
12R4 =	213-8739	18R =	213-8758	25R5 =	213-8775	35R7 =	213-8792	48R7 =	213-8809
12R7 =	213-8740	18R2 =	213-8759	26R1 =	213-8776	36R =	213-8793	49R9 =	146-9935
13R =	213-8741	18R7 =	213-8760	26R7 =	213-8777	36R5 =	213-8794	51R =	146-9944
13R3 =	213-8742	19R1 =	213-8762	27R =	213-8778	37R4 =	213-8795	51R1 =	165-3019
13R7 =	213-8743	19R6 =	213-8763	27R4 =	213-8779	38R3 =	213-8796	52R3 =	213-8810
14R =	213-8744	20R =	213-8764	28R =	213-8780	39R =	213-8798	53R6 =	213-8811
54R9 =	213-8812	487R =	213-8899	4K32 =	213-8960	39K =	165-2993	348K =	213-9070
56R =	213-8813	499R =	146-9936	4K42 =	165-3011	39K2 =	165-2994	357K =	213-9071
56R2 =	213-8814	510R =	165-3016	4K53 =	165-3012	40K2 =	213-9000	360K =	213-9072
57R6 =	213-8816	511R =	165-3017	4K64 =	146-9922	41K2 =	213-9001	365K =	213-9073
59R =	213-8817	523R =	213-8900	4K7 =	146-9923	42K2 =	146-9928	374K =	213-9074
60R4 =	146-9951	536R =	213-8901	4K75 =	146-9924	43K =	213-9002	383K =	165-2987
61R9 =	213-8818	549R =	213-8902	4K87 =	146-9925	43K2 =	213-9003	390K =	213-9075
62R =	213-8819	560R =	146-9945	4K99 =	146-9926	44K2 =	213-9004	392K =	165-2992
63R4 =	213-8820	562R =	213-8903	5K1 =	146-9937	45K3 =	165-3001	402K =	213-9076
64R9 =	213-8821	576R =	213-8904	5K11 =	146-9938	46K4 =	165-3005	412K =	213-9077
66R5 =	213-8822	590R =	165-3021	5K23 =	213-8961	47K =	146-9929	422K =	213-9079
68R =	213-8823	604R =	165-3025	5K36 =	165-3022	47K5 =	146-9930	430K =	213-9081
68R1 =	213-8824	619R =	213-8905	5K49 =	213-8962	48K7 =	213-9006	432K =	213-9082
69R8 =	213-8825	620R =	213-8907	5K6 =	146-9941	49K9 =	146-9934	442K =	213-9083
71R5 =	213-8826	634R =	213-8908	5K62 =	146-9942	51K =	165-3018	453K =	213-9084
73R2 =	213-8828	649R =	213-8909	5K76 =	213-8963	51K1 =	146-9943	464K =	165-3002
75R =	146-9955	665R =	213-8910	5K9 =	165-3023	52K3 =	213-9007	470K =	165-3006
76R8 =	213-8829	680R =	165-3028	6K04 =	146-9946	53K6 =	213-9008	475K =	213-9085
78R7 =	213-8830	681R =	146-9954	6K19 =	165-3031	54K9 =	213-9009	487K =	213-9086
80R6 =	146-9959	698R =	165-3030	6K2 =	146-9947	56K =	169-2535	499K =	165-3008
82R =	213-8831	715R =	169-2538	6K34 =	213-8964	56K2 =	165-3020	510K =	213-9087
82R5 =	213-8832	732R =	213-8911	6K49 =	146-9948	57K6 =	213-9010	511K =	213-9088
84R5 =	213-8833	750R =	146-9956	6K65 =	213-8965	59K =	213-9011	523K =	213-9089
86R6 =	213-8834	768R =	213-8912	6K8 =	146-9949	60K4 =	213-9012	536K =	213-9090
88R7 =	213-8835	787R =	213-8913	6K81 =	146-9950	61K9 =	165-3026	549K =	213-9092
90R9 =	213-8836	806R =	213-8914	6K98 =	165-3032	62K =	213-9013	560K =	213-9093
91R =	213-8837	820R =	213-8915	7K15 =	213-8966	63K4 =	213-9014	562K =	213-9094
93R1 =	213-8838	825R =	146-9960	7K32 =	213-8968	64K9 =	213-9015	576K =	213-9095
95R3 =	213-8841	845R =	213-8916	7K5 =	165-3036	66K5 =	213-9016	590K =	213-9096
97R6 =	213-8842	866R =	213-8917	7K68 =	213-8969	68K =	146-9953	604K =	165-3024
100R =	146-9862	887R =	213-8919	7K87 =	213-8970	68K1 =	165-3029	619K =	213-9097
102R =	213-8843	909R =	213-8921	8K06 =	165-3038	69K8 =	213-9018	620K =	213-9098
105R =	213-8844	910R =	165-3042	8K2 =	146-9957	71K5 =	165-3034	634K =	213-9099
107R =	213-8845	931R =	213-8922	8K25 =	146-9958	73K2 =	213-9019	649K =	213-9100
110R =	213-8846	953R =	165-3044	8K45 =	213-8971	75K =	165-3035	665K =	213-9101
113R =	213-8847	976R =	146-9962	8K66 =	213-8972	76K8 =	213-9020	680K =	213-9102
115R =	213-8848	1K =	146-9847	8K87 =	213-8973	78K7 =	213-9021	681K =	213-9103
118R =	213-8849	1K02 =	213-8923	9K09 =	213-8974	80K6 =	213-9022	698K =	213-9104
120R =	165-2914	1K05 =	213-8924	9K1 =	165-3046	82K =	213-9023	715K =	165-3033
121R =	146-9869	1K07 =	213-8925	9K31 =	213-8975	82K5 =	213-9024	732K =	213-9105
124R =	213-8850	1K1 =	146-9849	9K53 =	146-9961	84K5 =	169-2539	750K =	213-9106
127R =	165-2917	1K13 =	213-8926	9K76 =	165-3047	86K6 =	213-9025	768K =	213-9107
130R =	169-2530	1K15 =	213-8927	10K =	146-9856	88K7 =	213-9026	787K =	213-9109
133R =	146-9870	1K18 =	213-8928	10K2 =	213-8976	90K9 =	165-3041	806K =	213-9111
137R =	213-8851	1K2 =	146-9851	10K5 =	213-8977	91K =	165-3043	820K =	213-9112
140R =	213-8853	1K21 =	146-9852	10K7 =	213-8978	93K1 =	213-9027	825K =	213-9113
143R =	213-8854	1K24 =	213-8929	11K =	146-9863	95K3 =	165-3045	845K =	213-9114
147R =	213-8855	1K27 =	213-8930	11K3 =	165-2911	97K6 =	213-9028	866K =	165-3037
150R =	146-9877	1K3 =	165-2938	11K5 =	165-2912	100K =	146-9860	887K =	213-9115
154R =	213-8856	1K33 =	146-9853	11K8 =	213-8981	102K =	213-9031	909K =	213-9116
158R =	213-8857	1K37 =	213-8932	12K =	146-9865	105K =	165-2908	910K =	213-9117
160R =	213-8858	1K4 =	213-8933	12K1 =	146-9866	107K =	213-9032	931K =	213-9118
162R =	213-8859	1K43 =	213-8934	12K4 =	146-9867	110K =	146-9864	953K =	213-9119
165R =	213-8860	1K47 =	165-2939	12K7 =	146-9868	113K =	213-9033	976K =	213-9120
169R =	213-8861	1K5 =	165-2940	13K =	165-2918	115K =	213-9034	1M =	165-2946
174R =	213-8862	1K54 =	213-8935	13K3 =	213-8982	118K =	213-9035	1M02 =	213-9122
178R =	213-8863	1K58 =	213-8936	13K7 =	165-2919	120K =	165-2913	1M05 =	213-9123
180R =	165-2931	1K6 =	213-8937	14K =	146-9871	121K =	165-2915	1M07 =	213-9124
182R =	146-9883	1K62 =	213-8938	14K3 =	213-8983	124K =	213-9036	1M1 =	165-2947
187R =	213-8865	1K65 =	213-8939	14K7 =	146-9874	127K =	213-9037	1M13 =	213-9125
191R =	213-8866	1K69 =	165-2942	15K =	165-2920	130K =	213-9038	1M15 =	213-9126
196R =	213-8867	1K74 =	213-8940	15K4 =	165-2921	133K =	213-9039	1M18 =	213-9127
200R =	146-9895	1K78 =	213-8941	15K8 =	165-2922	137K =	213-9040	1M2 =	213-9128
205R =	165-2952	1K8 =	165-2943	16K =	165-2925	140K =	213-9041	1M21 =	213-9129
210R =	213-8868	1K82 =	165-2944	16K2 =	146-9878	143K =	213-9043	1M24 =	213-9130
215R =	213-8869	1K87 =	165-2945	16K5 =	146-9879	147K =	146-9875	1M27 =	213-9131
220R =	146-9899	1K91 =	213-8942	16K9 =	165-2926	150K =	146-9876	1M3 =	165-2948
221R =	146-9900	1K96 =	146-9854	17K4 =	213-8984	154K =	169-2531	1M33 =	213-9132
226R =	213-8870	2K =	146-9884	17K8 =	165-2927	158K =	213-9044	1M37 =	213-9134
232R =	213-8871	2K05 =	213-8944	18K =	165-2933	160K =	213-9045	1M4 =	213-9135
237R =	213-8872	2K1 =	213-8945	18K2 =	146-9882	162K =	165-2923	1M43 =	213-9136
240R =	165-2963	2K15 =	146-9886	18K7 =	165-2934	165K =	213-9046	1M47 =	213-9137
243R =	213-8873	2K2 =	146-9887	19K1 =	169-2532	169K =	165-2924	1M5 =	213-9138
249R =	146-9902	2K21 =	146-9888	19K6 =	165-2935	174K =	213-9047	1M54 =	213-9139
255R =	213-8874	2K26 =	165-2973	20K =	146-9893	178K =	146-9881	1M58 =	213-9140
261R =	213-8875	2K32 =	213-8946	20K5 =	169-2533	180K =	165-2929	1M6 =	213-9141
267R =	165-2967	2K37 =	165-2974	21K =	165-2956	182K =	165-2932	1M62 =	165-2949
270R =	165-2970	2K4 =	213-8947	21K5 =	165-2957	187K =	213-9048	1M65 =	213-9142
274R =	213-8877	2K43 =	165-2975	22K =	146-9896	191K =	213-9049	1M69 =	213-9143
280R =	213-8878	2K49 =	146-9889	22K1 =	146-9898	196K =	213-9050	1M74 =	213-9144
287R =	213-8879	2K55 =	213-8948	22K6 =	165-2961	200K =	165-2950	1M78 =	213-9146
294R =	213-8880	2K61 =	146-9890	23K2 =	213-8985	205K =	165-2951	1M8 =	213-9147
300R =	213-8881	2K67 =	213-8949	23K7 =	213-8986	210K =	213-9051	1M82 =	213-9148
301R =	165-2980	2K7 =	146-9891	24K =	165-2964	215K =	165-2955	1M87 =	213-9149
309R =	213-8882	2K74 =	146-9892	24K3 =	213-8987	220K =	146-9653	1M91 =	213-9150
316R =	165-2982	2K8 =	213-8950	24K9 =	146-9901	221K =	165-2958	1M96 =	213-9151
324R =	213-8883	2K87 =	165-2976	25K5 =	146-9904	226K =	165-2959	2M =	146-9652
330R =	146-9918	2K94 =	213-8951	26K1 =	146-9905	232K =	213-9052	2M05 =	213-9152
332R =	165-2984	3K =	146-9908	26K7 =	165-2968	237K =	213-9053	2M1 =	213-9153
340R =	213-8884	3K01 =	146-9909	27K =	146-9907	240K =	213-9055	2M15 =	213-9154
348R =	213-8885	3K09 =	213-8952	27K4 =	165-2971	243K =	213-9056	2M2 =	213-9155
357R =	213-8886	3K16 =	146-9910	28K =	213-8988	249K =	169-2534	2M21 =	213-9156
360R =	213-8887	3K24 =	165-2995	28K7 =	213-8989	255K =	213-9057	2M26 =	213-9158
365R =	146-9919	3K3 =	146-9911	29K4 =	213-8990	261K =	146-9906	2M32 =	213-9159
374R =	213-8889	3K32 =	146-9912	30K =	146-9914	267K =	213-9058	2M37 =	213-9160
383R =	213-8891	3K4 =	213-8953	30K1 =	165-2981	270K =	165-2969	2M4 =	213-9161
390R =	165-2991	3K48 =	165-2996	30K9 =	213-8991	274K =	213-9059	2M43 =	213-9162
392R =	213-8892	3K57 =	213-8954	31K6 =	146-9916	280K =	213-9060	2M49 =	213-9163
402R =	165-2999	3K6 =	213-8956	32K4 =	213-8993	287K =	213-9061	2M55 =	213-9164
412R =	213-8893	3K65 =	213-8957	33K =	165-2985	294K =	213-9062	2M61 =	213-9165
422R =	213-8894	3K74 =	165-2997	33K2 =	146-9917	300K =	213-9063	2M67 =	213-9166
430R =	213-8895	3K83 =	213-8958	34K =	213-8994	301K =	165-2979	2M7 =	213-9167
432R =	213-8896	3K9 =	165-2998	34K8 =	213-8995	309K =	213-9064	2M74 =	213-9168
442R =	213-8897	3K92 =	146-9913	35K7 =	213-8996	316K =	213-9065	2M8 =	213-9171
453R =	213-8898	4K02 =	146-9920	36K =	213-8997	324K =	213-9067	2M87 =	213-9172
464R =	165-3004	4K12 =	165-3010	36K5 =	213-8998	330K =	165-2983	2M94 =	213-9173
470R =	146-9932	4K22 =	146-9921	37K4 =	213-8999	332K =	213-9068	3M =	213-9174
475R =	146-9933	4K3 =	213-8959	38K3 =	165-2988	340K =	213-9069	3M01 =	213-9175

RoHS ● Compliant ▲ Non-compliant

3M09 =	213-9176	3M92 =	213-9190	4M99 =	213-9204	6M2 =	213-9217	8M06 =	213-9230		
3M16 =	213-9177	4M02 =	213-9191	5M1 =	213-9205	6M34 =	213-9218	8M2 =	213-9231		
3M24 =	213-9178	4M12 =	213-9192	5M11 =	213-9206	6M49 =	213-9219	8M25 =	213-9232		
3M3 =	213-9179	4M22 =	213-9193	5M23 =	213-9207	6M65 =	213-9220	8M45 =	213-9233		
3M32 =	213-9180	4M3 =	213-9195	5M36 =	213-9208	6M8 =	213-9221	8M66 =	213-9234		
3M4 =	213-9181	4M32 =	213-9196	5M49 =	213-9209	6M81 =	213-9222	8M87 =	213-9235		
3M48 =	213-9183	4M42 =	213-9197	5M6 =	213-9210	6M98 =	213-9223	9M09 =	213-9237		
3M57 =	213-9184	4M53 =	213-9198	5M62 =	213-9211	7M15 =	213-9225	9M1 =	213-9238		
3M6 =	213-9185	4M64 =	213-9199	5M76 =	213-9213	7M32 =	213-9226	9M31 =	213-9239		
3M65 =	213-9186	4M7 =	213-9201	5M9 =	213-9214	7M5 =	213-9227	9M53 =	213-9240		
3M74 =	213-9187	4M75 =	213-9202	6M04 =	213-9215	7M68 =	213-9228	9M76 =	213-9241		
3M83 =	213-9188	4M87 =	213-9203	6M19 =	213-9216	7M87 =	213-9229	10M =	146-9858		
3M9 =	213-9189										

	Price Each				
Order Code	50+	250+	500+	1K+	+
All Values ● RL					

1206 Case Size

Stocked in the following OHMIC Values:

0R =	146-9963	57R6 =	213-9326	357R =	147-0010	2K15 =	165-3101	12K1 =	146-9979
10R =	146-9974	59R =	213-9328	360R =	213-9397	2K2 =	165-3102	12K4 =	165-3061
10R2 =	213-9242	60R4 =	165-3156	365R =	213-9398	2K21 =	146-9986	12K7 =	213-9517
10R5 =	213-9243	61R9 =	213-9329	374R =	213-9399	2K26 =	213-9462	13K =	165-3063
10R7 =	213-9244	62R =	213-9330	383R =	213-9400	2K32 =	146-9987	13K3 =	146-9982
11R =	213-9245	63R4 =	213-9331	390R =	213-9401	2K37 =	165-3103	13K7 =	213-9518
11R3 =	213-9246	64R9 =	213-9332	392R =	213-9402	2K4 =	213-9463	14K =	146-9983
11R5 =	213-9247	66R5 =	213-9333	402R =	213-9403	2K43 =	213-9464	14K3 =	213-9519
11R8 =	213-9249	68R =	213-9334	412R =	213-9404	2K49 =	146-9989	14K7 =	165-3065
12R =	213-9251	68R1 =	213-9335	422R =	165-3128	2K55 =	213-9465	15K =	165-3067
12R1 =	213-9252	69R8 =	213-9336	430R =	213-9405	2K61 =	213-9466	15K4 =	165-3068
12R4 =	213-9253	71R5 =	213-9337	432R =	213-9407	2K67 =	165-3104	15K8 =	213-9520
12R7 =	213-9254	73R2 =	213-9338	442R =	213-9408	2K7 =	146-9991	16K =	213-9521
13R =	213-9255	75R =	165-3169	453R =	213-9409	2K74 =	213-9468	16K2 =	213-9523
13R3 =	213-9256	76R8 =	213-9341	464R =	213-9410	2K8 =	213-9469	16K5 =	165-3071
13R7 =	213-9257	78R7 =	213-9342	470R =	165-3132	2K87 =	213-9470	16K9 =	213-9524
14R =	213-9258	80R6 =	213-9343	475R =	147-0018	2K94 =	213-9471	17K4 =	213-9525
14R3 =	213-9259	82R =	165-3175	487R =	213-9411	3K =	165-3121	17K8 =	165-3072
14R7 =	213-9260	82R5 =	165-3176	499R =	147-0020	3K01 =	147-0004	18K =	165-3074
15R =	213-9262	84R5 =	213-9344	510R =	165-3145	3K09 =	213-9472	18K2 =	213-9526
15R4 =	213-9263	86R6 =	213-9345	511R =	147-0022	3K16 =	213-9473	18K7 =	213-9527
15R8 =	213-9264	88R7 =	213-9346	523R =	213-9412	3K24 =	213-9474	19K1 =	146-9984
16R =	213-9265	90R9 =	165-3182	536R =	147-0025	3K3 =	165-3122	19K6 =	213-9528
16R2 =	213-9266	91R =	213-9347	549R =	213-9413	3K32 =	165-3123	20K =	146-9993
16R5 =	213-9267	93R1 =	213-9348	560R =	165-3148	3K4 =	213-9475	20K5 =	165-3092
16R9 =	213-9268	95R3 =	213-9349	562R =	147-0026	3K48 =	213-9476	21K =	213-9529
17R4 =	213-9269	97R6 =	213-9350	576R =	213-9414	3K57 =	213-9477	21K5 =	165-3093
17R8 =	213-9270	100R =	146-9977	590R =	213-9415	3K6 =	165-3124	22K =	146-9995
18R =	213-9271	102R =	213-9351	604R =	165-3153	3K65 =	165-3125	22K1 =	146-9996
18R2 =	213-9272	105R =	213-9353	619R =	213-9416	3K74 =	213-9478	22K6 =	146-9997
18R7 =	213-9274	107R =	213-9354	620R =	165-3158	3K83 =	165-3126	23K2 =	213-9530
19R1 =	213-9275	110R =	165-3055	634R =	213-9417	3K9 =	165-3127	23K7 =	213-9531
19R6 =	213-9276	113R =	213-9355	649R =	213-9419	3K92 =	147-0005	24K =	213-9532
20R =	146-9658	115R =	213-9356	665R =	213-9421	4K02 =	147-0011	24K3 =	213-9533
20R5 =	213-9277	118R =	213-9357	680R =	213-9422	4K12 =	213-9481	24K9 =	146-9998
21R =	213-9278	120R =	165-3057	681R =	213-9423	4K22 =	165-3139	25K5 =	213-9535
21R5 =	213-9279	121R =	146-9981	698R =	213-9424	4K3 =	165-3140	26K1 =	213-9536
22R =	213-9280	124R =	165-3058	715R =	165-3165	4K32 =	213-9482	26K7 =	213-9537
22R1 =	213-9281	127R =	213-9358	732R =	213-9425	4K42 =	165-3141	27K =	213-9538
22R6 =	213-9282	130R =	169-2541	750R =	147-0028	4K53 =	213-9483	27K4 =	213-9539
23R2 =	213-9283	133R =	213-9359	768R =	213-9426	4K64 =	165-3142	28K =	213-9540
23R7 =	213-9284	137R =	213-9360	787R =	213-9427	4K7 =	147-0013	28K7 =	213-9541
24R =	213-9286	140R =	213-9361	806R =	213-9428	4K75 =	147-0014	29K4 =	213-9542
24R3 =	213-9287	143R =	213-9362	820R =	147-0029	4K87 =	213-9484	30K =	165-3110
24R9 =	146-9999	147R =	213-9363	825R =	165-3173	4K99 =	147-0015	30K1 =	146-9659
25R5 =	213-9288	150R =	146-9656	845R =	213-9429	5K1 =	213-9485	30K9 =	213-9543
26R1 =	213-9289	154R =	213-9365	866R =	213-9430	5K11 =	165-3151	31K6 =	147-0006
26R7 =	213-9290	158R =	213-9366	887R =	213-9432	5K23 =	213-9486	32K4 =	213-9544
27R =	213-9291	160R =	165-3069	909R =	213-9433	5K36 =	213-9487	33K =	165-3113
27R4 =	213-9292	162R =	213-9367	910R =	213-9434	5K49 =	213-9488	33K2 =	213-9545
28R =	213-9293	165R =	213-9368	931R =	213-9435	5K6 =	213-9489	34K =	213-9547
28R7 =	213-9294	169R =	213-9369	953R =	213-9436	5K62 =	165-3152	34K8 =	213-9548
29R4 =	213-9295	174R =	213-9370	976R =	213-9437	5K76 =	213-9490	35K7 =	213-9549
30R =	213-9296	178R =	213-9371	1K =	146-9965	5K9 =	213-9491	36K =	213-9550
30R1 =	165-3111	180R =	165-3073	1K02 =	213-9438	6K04 =	165-3161	36K5 =	213-9551
30R9 =	213-9298	182R =	213-9372	1K05 =	213-9439	6K19 =	165-3162	37K4 =	213-9552
31R6 =	213-9299	187R =	213-9373	1K07 =	213-9440	6K2 =	213-9493	38K3 =	165-3116
32R4 =	213-9300	191R =	213-9374	1K1 =	146-9966	6K34 =	213-9494	39K =	213-9553
33R =	169-2544	196R =	213-9375	1K13 =	213-9441	6K49 =	213-9495	39K2 =	213-9554
33R2 =	213-9301	200R =	165-3089	1K15 =	213-9442	6K65 =	213-9496	40K2 =	213-9555
34R =	213-9302	205R =	213-9377	1K18 =	213-9444	6K8 =	165-3163	41K2 =	213-9556
34R8 =	213-9304	210R =	213-9378	1K2 =	169-2542	6K81 =	146-9660	42K2 =	213-9557
35R7 =	213-9305	215R =	213-9379	1K21 =	165-3078	6K98 =	213-9497	43K =	213-9559
36R =	213-9306	220R =	213-9380	1K24 =	213-9445	7K15 =	147-0027	43K2 =	213-9561
36R5 =	213-9307	221R =	169-2543	1K27 =	213-9446	7K32 =	213-9498	44K2 =	213-9562
37R4 =	165-3114	226R =	213-9381	1K3 =	165-3079	7K5 =	165-3170	45K3 =	213-9563
38R3 =	213-9308	232R =	213-9382	1K33 =	165-3080	7K68 =	213-9499	46K4 =	165-3130
39R =	213-9309	237R =	213-9383	1K37 =	213-9447	7K87 =	213-9500	47K =	147-0016
39R2 =	165-3119	240R =	165-3096	1K4 =	213-9448	8K06 =	213-9501	47K5 =	165-3134
40R2 =	213-9310	243R =	165-3097	1K43 =	213-9449	8K2 =	213-9502	48K7 =	213-9564
41R2 =	213-9311	249R =	147-0002	1K47 =	213-9450	8K25 =	165-3178	49K9 =	165-3136
42R2 =	213-9312	255R =	165-3098	1K5 =	165-3081	8K45 =	213-9503	51K =	213-9565
43R =	213-9313	261R =	165-3099	1K54 =	213-9451	8K66 =	213-9504	51K1 =	165-3146
43R2 =	213-9314	267R =	213-9384	1K58 =	213-9452	8K87 =	213-9505	52K3 =	213-9566
44R2 =	213-9316	270R =	147-0003	1K6 =	146-9967	9K09 =	213-9506	53K6 =	165-3147
45R3 =	213-9317	274R =	213-9385	1K62 =	165-3082	9K1 =	213-9507	54K9 =	213-9567
46R4 =	213-9318	280R =	213-9386	1K65 =	213-9453	9K31 =	213-9508	56K =	213-9568
47R =	147-0017	287R =	213-9387	1K69 =	213-9454	9K53 =	213-9511	56K2 =	165-3149
47R5 =	165-3135	294R =	213-9389	1K74 =	213-9456	9K76 =	213-9512	57K6 =	213-9569
48R7 =	213-9319	300R =	165-3109	1K78 =	213-9457	10K =	146-9970	59K =	213-9570
49R9 =	213-9320	301R =	213-9391	1K8 =	213-9458	10K2 =	213-9513	60K4 =	165-3154
51R =	147-0021	309R =	213-9392	1K82 =	165-3083	10K5 =	146-9972	61K9 =	165-3157
51R1 =	213-9321	316R =	213-9393	1K87 =	213-9459	10K7 =	213-9514	62K =	165-3159
52R3 =	213-9322	324R =	213-9394	1K91 =	165-3084	11K =	146-9978	63K4 =	213-9572
53R6 =	213-9323	330R =	147-0008	1K96 =	213-9460	11K3 =	213-9515	64K9 =	213-9573
54R9 =	213-9324	332R =	165-3112	2K =	146-9985	11K5 =	165-3056	66K5 =	213-9574
56R =	213-9325	340R =	213-9395	2K05 =	213-9461	11K8 =	213-9516	68K =	213-9575
56R2 =	165-3150	348R =	213-9396	2K1 =	165-3100	12K =	165-3060	68K1 =	165-3160
69K8 =	213-9576	205K =	213-9617	523K =	213-9660	1M47 =	213-9710	3M9 =	213-9760
71K5 =	213-9577	210K =	213-9618	536K =	147-0023	1M5 =	146-9969	3M92 =	213-9761
73K2 =	213-9578	215K =	213-9619	549K =	213-9661	1M54 =	213-9711	4M02 =	213-9762
75K =	165-3168	220K =	213-9620	560K =	213-9663	1M58 =	213-9712	4M12 =	213-9763
76K8 =	213-9579	221K =	213-9621	562K =	213-9664	1M6 =	213-9713	4M22 =	213-9764
78K7 =	213-9580	226K =	165-3094	576K =	213-9665	1M62 =	213-9714	4M3 =	213-9766
80K6 =	165-3172	232K =	213-9622	590K =	213-9666	1M65 =	213-9715	4M32 =	213-9767
82K =	213-9581	237K =	213-9623	604K =	213-9667	1M69 =	213-9717	4M42 =	213-9768
82K5 =	165-3174	240K =	165-3095	619K =	213-9668	1M74 =	213-9718	4M53 =	213-9769
84K5 =	213-9582	243K =	213-9624	620K =	213-9669	1M78 =	213-9719	4M64 =	213-9770
86K6 =	165-3177	249K =	147-0001	634K =	213-9670	1M8 =	213-9720	4M7 =	213-9771
88K7 =	213-9584	255K =	213-9626	649K =	213-9671	1M82 =	213-9721	4M75 =	213-9772
90K9 =	165-3181	261K =	213-9627	665K =	213-9672	1M87 =	213-9722	4M87 =	213-9773
91K =	213-9585	267K =	213-9628	680K =	213-9673	1M91 =	213-9723	4M99 =	213-9774
93K1 =	213-9586	270K =	213-9629	681K =	213-9675	1M96 =	213-9724	5M1 =	213-9775
95K3 =	213-9587	274K =	213-9630	698K =	213-9676	2M =	146-9992	5M11 =	213-9776
97K6 =	213-9588	280K =	213-9631	715K =	213-9677	2M05 =	213-9725	5M23 =	213-9778
100K =	146-9975	287K =	213-9632	732K =	213-9678	2M1 =	213-9726	5M36 =	213-9779
102K =	213-9589	294K =	213-9633	750K =	165-3166	2M15 =	213-9727	5M49 =	213-9780
105K =	213-9590	300K =	165-3108	768K =	213-9679	2M2 =	146-9657	5M6 =	213-9781
107K =	213-9591	301K =	213-9634	787K =	213-9680	2M21 =	213-9729	5M62 =	213-9782
110K =	165-3054	309K =	213-9635	806K =	213-9681	2M26 =	213-9731	5M76 =	213-9783
113K =	213-9592	316K =	213-9636	820K =	213-9682	2M32 =	213-9732	5M9 =	213-9784
115K =	213-9593	324K =	213-9638	825K =	213-9683	2M37 =	213-9733	6M04 =	213-9785
118K =	213-9594	330K =	147-0007	845K =	213-9684	2M4 =	213-9734	6M19 =	213-9786
120K =	213-9596	332K =	147-0009	866K =	213-9685	2M43 =	213-9735	6M2 =	213-9787
121K =	146-9980	340K =	213-9639	887K =	213-9687	2M49 =	165-3105	6M34 =	213-9788
124K =	213-9597	348K =	213-9640	909K =	213-9688	2M55 =	213-9736	6M49 =	165-3164
127K =	165-3059	357K =	213-9641	910K =	213-9689	2M61 =	213-9737	6M65 =	213-9791
130K =	165-3062	360K =	213-9642	931K =	213-9690	2M67 =	213-9738	6M8 =	213-9792
133K =	213-9598	365K =	213-9643	953K =	213-9691	2M7 =	213-9739	6M81 =	213-9793
137K =	213-9599	374K =	213-9644	976K =	213-9692	2M74 =	213-9740	6M98 =	213-9794
140K =	213-9600	383K =	165-3115	1M =	146-9968	2M8 =	213-9742	7M15 =	213-9795
143K =	213-9602	390K =	213-9645	1M02 =	213-9693	2M87 =	213-9743	7M32 =	213-9796
147K =	213-9603	392K =	165-3117	1M05 =	213-9694	2M94 =	213-9744	7M5 =	165-3171
150K =	165-3066	402K =	213-9646	1M07 =	213-9695	3M =	213-9745	7M68 =	213-9797
154K =	213-9604	412K =	213-9647	1M1 =	165-3086	3M01 =	213-9746	7M87 =	213-9798
158K =	213-9605	422K =	213-9648	1M13 =	213-9696	3M09 =	213-9747	8M06 =	213-9799
160K =	213-9606	430K =	213-9651	1M15 =	213-9697	3M16 =	213-9748	8M2 =	213-9800
162K =	213-9607	432K =	213-9652	1M18 =	213-9699	3M24 =	213-9749	8M25 =	213-9801
165K =	213-9608	442K =	213-9653	1M2 =	213-9700	3M3 =	213-9750	8M45 =	213-9802
169K =	165-3070	453K =	213-9654	1M21 =	213-9701	3M32 =	213-9751	8M66 =	213-9803
174K =	213-9609	464K =	165-3129	1M24 =	213-9702	3M4 =	213-9752	8M87 =	213-9804
178K =	213-9610	470K =	213-9655	1M27 =	213-9703	3M48 =	213-9754	9M09 =	213-9805
180K =	213-9611	475K =	213-9656	1M3 =	213-9705	3M57 =	213-9755	9M1 =	213-9806
182K =	213-9612	487K =	213-9657	1M33 =	213-9706	3M6 =	213-9756	9M31 =	213-9808
187K =	213-9614	499K =	147-0019	1M37 =	213-9707	3M65 =	213-9757	9M53 =	213-9809
191K =	213-9615	510K =	213-9658	1M4 =	213-9708	3M74 =	213-9758	9M76 =	213-9810
196K =	213-9616	511K =	213-9659	1M43 =	213-9709	3M83 =	213-9759	10M =	146-9973
200K =	146-9994								

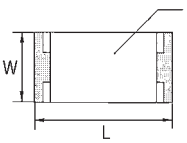
663515

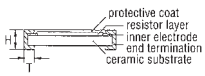
	Price Each				
Order Code	50+	250+	500+	1K+	+
All Values ● RL					

Surface Mount - Nickel Barrier

Phycomp YAGEO

RC Series





SMD

Range	Case Size	Dimensions L	W	H	Voltage Rating	Temperature Coefficient
RC41	0201	0.6	0.3	0.23	25	± 200ppm/°C
RC31	0402	1	0.5	0.35	50	±200ppm/°C
RC32H	0402	1	0.5	0.35	50	±200ppm/°C
RC21	0603	1.6	0.8	0.45	50	± 200ppm/°C
RC22H	0603	1.6	0.8	0.45	50	±200ppm/°C
RC11	0805	2	1.25	0.5	150	±200ppm/°C
RC12H	0805	2	1.25	0.5	150	±200ppm/°C
RC01	1206	3.1	1.6	0.55	200	±200ppm/°C
RC02H	1206	3.1	1.6	0.55	200	±200ppm/°C
SRC01	1206	3.1	1.6	0.55	200	±200ppm/°C
RC2512	2512	6.35	3.1	0.55	200	±200ppm/°C

Operating temperature	RC41, RC31, RC32H	-55°C to +155°C
	RC21, RC22H, RC11, RC12H, RC01, RC02H, SRC01	-55°C to +155°C
	RC25	-55°C to +185°C

RC41 - 0.05 Watt ±5% (0201 Case Size)

10000 per Reel

Stocked in the following OHMIC Values:

0R = 145-8895	100R = 145-8862	1K5 = 145-8870	15K = 145-8871	150K = 145-8872
10R = 145-8861	150R = 145-8869	2K2 = 145-8876	22K = 145-8877	220K = 145-8878
15R = 145-8868	220R = 145-8874	3K3 = 145-8881	33K = 145-8882	330K = 145-8883
22R = 145-8873	330R = 145-8880	4K7 = 145-8886	47K = 145-8888	470K = 145-8889
33R = 145-8879	470R = 145-8885	6K8 = 145-8892	68K = 145-8893	680K = 145-8894
47R = 145-8884	680R = 145-8891	10K = 145-8865	100K = 145-8866	1M = 145-8867
68R = 145-8890	1K = 145-8864			

	Price Each			
Order Code	50+	1K+	5K+	15K+
All Values ● RL				

RC42 - 0.05 Watt ±1% (0201 Case Size)

4000 per Reel

Stocked in the following OHMIC Values:

1R = 185-6956	2R2 = 185-6962	4R7 = 185-6966	10R = 185-6970	22R = 185-6975
1R2 = 185-6957	2R7 = 185-6963	5R6 = 185-6967	12R = 185-6971	33R = 185-6976
1R5 = 185-6958	3R3 = 185-6964	6R8 = 185-6968	15R = 185-6973	39R = 185-6977
1R8 = 185-6961	3R9 = 185-6965	8R2 = 185-6969	18R = 185-6974	47R = 185-6978

Surface Mount - Nickel Barrier - continued

RC Series - continued

56R = 185-6979	680R = 185-6993	8K2 = 185-7007	100K = 185-7023
68R = 185-6980	820R = 185-6994	10K = 185-7008	120K = 185-7024
82R = 185-6981	1K = 185-6995	12K = 185-7011	150K = 185-7025
100R = 185-6982	1K2 = 185-6997	15K = 185-7012	180K = 185-7026
120R = 185-6983	1K5 = 185-6998	18K = 185-7013	220K = 185-7027
150R = 185-6985	1K8 = 185-6999	22K = 185-7014	270K = 185-7028
180R = 185-6986	2K2 = 185-7000	27K = 185-7015	330K = 185-7029
220R = 185-6987	2K7 = 185-7001	33K = 185-7016	390K = 185-7030
270R = 185-6988	3K3 = 185-7002	39K = 185-7017	470K = 185-7031
330R = 185-6989	3K9 = 185-7003	47K = 185-7018	560K = 185-7032
390R = 185-6990	4K7 = 185-7004	56K = 185-7019	680K = 185-7033
470R = 185-6991	5K6 = 185-7005	68K = 185-7020	820K = 185-7035
560R = 185-6992	6K8 = 185-7006	82K = 185-7021	

					1M = 185-7036
					1M2 = 185-7037
					1M5 = 185-7038
					1M8 = 185-7039
					2M2 = 185-7040
					2M7 = 185-7041
					3M3 = 185-7042
					3M9 = 185-7043
					4M7 = 185-7044
					6M8 = 185-7045
					8M2 = 185-7047
					10M = 185-7048

Order Code	Price Each 50+	1K+	5K+	15K+
NEW All Values ● RL				

RC31 - 0.063 Watt ±5% (0402 Case Size)

10000 per Reel

Stocked in the following OHMIC Values:

0R = 923-2516	100R = 923-2648	1K = 923-2761	10K = 923-2885	100K = 923-3008
10R = 923-2524	120R = 923-2656	1K2 = 923-2770	12K = 923-2893	150K = 923-3024
12R = 923-2532	150R = 923-2664	1K5 = 923-2788	15K = 923-2907	180K = 923-3032
15R = 923-2540	180R = 923-2672	1K8 = 923-2796	18K = 923-2915	220K = 923-3040
18R = 923-2559	220R = 923-2680	2K2 = 923-2800	22K = 923-2923	270K = 923-3059
22R = 923-2567	270R = 923-2699	2K7 = 923-2818	27K = 923-2931	330K = 923-3067
27R = 923-2575	330R = 923-2702	3K3 = 923-2826	33K = 923-2940	390K = 923-3075
33R = 923-2583	390R = 923-2710	3K9 = 923-2834	39K = 923-2958	470K = 923-3083
39R = 923-2591	470R = 923-2729	4K7 = 923-2842	47K = 923-2966	560K = 923-3091
47R = 923-2605	560R = 923-2737	5K6 = 923-2850	56K = 923-2974	680K = 923-3105
56R = 923-2613	680R = 923-2745	6K8 = 923-2869	68K = 923-2982	820K = 923-3113
68R = 923-2621	820R = 923-2753	8K2 = 923-2877	82K = 923-2990	1M = 923-3121
82R = 923-2630				

Order Code	Price Each 50+	1K+	5K+	15K+
All Values ● RL				

RC32H - 0.063 Watt ±1% (0402 Case Size)

10000 per Reel

Stocked in the following OHMIC Values:

1R = 145-8732	27R = 923-9049	560R = 923-9200	12K = 923-9367	300K = 145-8779
1R1 = 145-8734	30R = 145-8775	620R = 145-8815	15K = 923-9375	330K = 923-9537
1R2 = 145-8742	33R = 923-9057	680R = 923-9219	16K = 145-8749	360K = 145-8789
1R5 = 145-8743	36R = 145-8785	750R = 145-8823	18K = 923-9383	390K = 923-9545
1R6 = 145-8744	39R = 923-9065	820R = 923-9227	20K = 145-8758	430K = 145-8797
1R8 = 145-8752	43R = 145-8792	910R = 145-8832	22K = 923-9391	470K = 923-9553
2R = 145-8754	47R = 923-9073	1K = 923-9235	24K = 145-8768	510K = 145-8807
2R2 = 145-8763	51R = 145-8803	1K1 = 145-8738	27K = 923-9405	560K = 145-8810
2R4 = 145-8764	56R = 923-9081	1K2 = 923-9243	30K = 145-8778	620K = 145-8818
2R7 = 145-8771	62R = 145-8813	1K5 = 923-9251	33K = 923-9413	680K = 923-9561
3R = 145-8774	68R = 923-9090	1K6 = 145-8748	36K = 145-8788	750K = 145-8827
3R3 = 145-8781	75R = 145-8822	1K8 = 923-9260	39K = 923-9421	820K = 923-9570
3R6 = 145-8783	82R = 923-9103	2K = 145-8757	43K = 145-8795	910K = 145-8835
4R3 = 145-8791	91R = 145-8831	2K2 = 923-9278	47K = 923-9430	1M = 923-9588
4R7 = 145-8799	100R = 923-9111	2K4 = 145-8767	51K = 145-8806	1M1 = 145-8741
5R1 = 145-8801	110R = 145-8737	2K7 = 923-9286	56K = 923-9448	1M2 = 923-9596
5R6 = 145-8809	120R = 923-9120	3K = 145-8777	62K = 145-8817	1M5 = 923-9600
6R2 = 145-8812	150R = 923-9138	3K3 = 923-9294	68K = 923-9456	1M6 = 145-8751
6R8 = 923-8972	160R = 145-8746	3K6 = 145-8787	75K = 145-8825	1M8 = 145-8753
7R5 = 145-8821	180R = 923-9146	3K9 = 923-9308	82K = 923-9464	2M = 145-8762
8R2 = 923-8980	200R = 145-8756	4K3 = 145-8794	91K = 145-8834	2M2 = 923-9618
9R1 = 145-8830	220R = 923-9154	4K7 = 923-9316	100K = 923-9472	2M7 = 145-8773
10R = 923-8999	240R = 145-8766	5K1 = 145-8805	110K = 145-8740	3M = 145-8780
11R = 145-8736	270R = 923-9162	5K6 = 923-9324	120K = 923-9480	3M3 = 145-8782
12R = 923-9006	300R = 145-8776	6K2 = 145-8816	150K = 923-9499	4M3 = 145-8798
15R = 923-9014	330R = 923-9170	6K8 = 923-9332	160K = 145-8750	4M7 = 145-8800
16R = 145-8745	360R = 145-8786	7K5 = 145-8824	180K = 923-9502	5M1 = 145-8808
18R = 923-9022	390R = 923-9189	8K2 = 923-9340	200K = 145-8761	5M6 = 145-8811
20R = 145-8755	430R = 145-8793	9K1 = 145-8833	220K = 923-9510	6M8 = 145-8820
22R = 923-9030	470R = 923-9197	10K = 923-9359	240K = 145-8769	10M = 145-8733
24R = 145-8765	510R = 145-8804	11K = 145-8739	270K = 923-9529	

Order Code	Price Each 50+	1K+	5K+	15K+
All Values ● RL				

RC21 - 0.1 Watt ±5% (0603 Case Size)

10000* per Reel

Stocked in the following OHMIC Values:

0R = 923-3130	120R = 923-3261	1K5 = 923-3407	15K = 923-3520	150K = 923-3644
10R = 923-3148	150R = 923-3270	1K8 = 923-3415	18K = 923-3539	180K = 923-3652
15R = 923-3156	180R = 923-3288	2K2 = 923-3423	22K = 923-3547	220K = 923-3660
18R = 923-3164	220R = 923-3296	2K7 = 923-3431	27K = 923-3555	270K = 923-3679
22R = 923-3172	270R = 923-3300	3K3 = 923-3440	33K = 923-3563	330K = 923-3687
27R = 923-3180	330R = 923-3318	3K9 = 923-3458	39K = 923-3571	390K = 923-3695
33R = 923-3199	390R = 923-3326	4K7 = 923-3466	47K = 923-3580	470K = 923-3709
39R = 923-3202	470R = 923-3334	5K6 = 923-3474	56K = 923-3598	560K = 923-3717
47R = 923-3210	560R = 923-3342	6K8 = 923-3482	68K = 923-3601	680K = 923-3725
56R = 923-3229	680R = 923-3369	8K2 = 923-3490	82K = 923-3610	820K = 923-3733
68R = 923-3237	820R = 923-3377	10K = 923-3504	100K = 923-3628	1M = 923-3741
82R = 923-3245	1K = 923-3385	12K = 923-3512	120K = 923-3636	10M = 923-6350
100R = 923-3253	1K2 = 923-3393			

Order Code	Price Each 50+	1K+	5K+	15K+
All Values ● RL				

RC22H - 0.1 Watt ±1% (0603 Case Size)

5000 per Reel

Stocked in the following OHMIC Values:

1R = 923-8123	27R = 923-8298	680R = 923-8468	18K = 923-8638	470K = 923-8808
1R2 = 923-8131	33R = 923-8301	820R = 923-8476	22K = 923-8646	560K = 923-8816
1R5 = 923-8140	39R = 923-8310	1K = 923-8484	27K = 923-8654	680K = 923-8824
1R8 = 923-8158	47R = 923-8328	1K2 = 923-8492	33K = 923-8662	820K = 923-8832
2R2 = 923-8166	56R = 923-8336	1K5 = 923-8506	39K = 923-8670	1M = 923-8840
2R7 = 923-8174	68R = 923-8344	1K8 = 923-8514	47K = 923-8689	1M2 = 923-8859
3R3 = 923-8182	82R = 923-8352	2K2 = 923-8522	56K = 923-8697	1M5 = 923-8867
3R9 = 923-8190	100R = 923-8360	2K7 = 923-8530	68K = 923-8700	1M8 = 923-8875
4R7 = 923-8204	120R = 923-8379	3K3 = 923-8549	82K = 923-8719	2M2 = 923-8883
5R6 = 923-8212	150R = 923-8387	3K9 = 923-8557	100K = 923-8727	2M7 = 923-8891
6R8 = 923-8220	180R = 923-8395	4K7 = 923-8565	120K = 923-8735	3M3 = 923-8905
8R2 = 923-8239	220R = 923-8409	5K6 = 923-8573	150K = 923-8743	3M9 = 923-8913
10R = 923-8247	270R = 923-8417	6K8 = 923-8581	180K = 923-8751	4M7 = 923-8921
12R = 923-8255	330R = 923-8425	8K2 = 923-8590	220K = 923-8760	5M6 = 923-8930
15R = 923-8263	390R = 923-8433	10K = 923-8603	270K = 923-8778	6M8 = 923-8948
18R = 923-8271	470R = 923-8441	12K = 923-8611	330K = 923-8786	8M2 = 923-8956
22R = 923-8280	560R = 923-8450	15K = 923-8620	390K = 923-8794	10M = 923-8964

Order Code	Price Each 50+	1K+	5K+	15K+
All Values ● RL				

RC11 - 0.125 Watt ±5% (0805 Case Size)

10000 per Reel

Stocked in the following OHMIC Values:

0R = 923-3750	100R = 923-3881	1K2 = 923-4012	15K = 923-4152	150K = 923-4276
10R = 923-3768	120R = 923-3890	1K5 = 923-4020	18K = 923-4160	180K = 923-4284
12R = 923-3776	150R = 923-3903	1K8 = 923-4039	22K = 923-4179	220K = 923-4292
15R = 923-3784	180R = 923-3911	2K2 = 923-4055	27K = 923-4187	270K = 923-4306
18R = 923-3792	220R = 923-3920	2K7 = 923-4063	33K = 923-4195	330K = 923-4314
22R = 923-3806	270R = 923-3938	3K3 = 923-4071	39K = 923-4209	390K = 923-4322
27R = 923-3814	330R = 923-3946	3K9 = 923-4080	47K = 923-4217	470K = 923-4330
33R = 923-3822	390R = 923-3954	4K7 = 923-4098	56K = 923-4225	560K = 923-4349
39R = 923-3830	470R = 923-3962	5K6 = 923-4101	68K = 923-4233	680K = 923-4357
47R = 923-3849	560R = 923-3970	6K8 = 923-4110	82K = 923-4241	820K = 923-4365
56R = 923-3857	680R = 923-3989	8K2 = 923-4128	100K = 923-4250	1M = 923-4373
68R = 923-3865	820R = 923-3997	10K = 923-4136	120K = 923-4268	10M = 923-6392
82R = 923-3873	1K = 923-4004	12K = 923-4144		

Order Code	Price Each 50+	1K+	5K+	15K+
All Values ● RL				

RC12H - 0.125 Watt ±1% (0805 Case Size)

Stocked in the following OHMIC Values:

5000 per Reel

1R = 923-7127	27R = 923-7291	680R = 923-7470	18K = 923-7780	470K = 923-7950
1R2 = 923-7135	33R = 923-7305	820R = 923-7488	22K = 923-7798	560K = 923-7968
1R5 = 923-7143	39R = 923-7313	1K = 923-7496	27K = 923-7801	680K = 923-7976
1R8 = 923-7151	47R = 923-7321	1K2 = 923-7500	33K = 923-7810	820K = 923-7984
2R2 = 923-7160	56R = 923-7330	1K5 = 923-7518	39K = 923-7828	1M = 923-7992
2R7 = 923-7178	68R = 923-7348	1K8 = 923-7526	47K = 923-7836	1M2 = 923-8000
3R3 = 923-7186	82R = 923-7356	2K2 = 923-7534	56K = 923-7844	1M5 = 923-8018
3R9 = 923-7194	100R = 923-7364	2K7 = 923-7666	68K = 923-7852	1M8 = 923-8026
4R7 = 923-7208	120R = 923-7372	3K3 = 923-7682	82K = 923-7860	2M2 = 923-8034
5R6 = 923-7216	150R = 923-7380	3K9 = 923-7690	100K = 923-7879	2M7 = 923-8042
6R8 = 923-7224	180R = 923-7399	4K7 = 923-7704	120K = 923-7887	3M3 = 923-8050
8R2 = 923-7232	220R = 923-7402	5K6 = 923-7712	150K = 923-7895	3M9 = 923-8069
10R = 923-7240	270R = 923-7410	6K8 = 923-7739	180K = 923-7909	4M7 = 923-8077
12R = 923-7259	330R = 923-7429	8K2 = 923-7747	220K = 923-7917	5M6 = 923-8085
15R = 923-7267	390R = 923-7437	10K = 923-7755	270K = 923-7925	6M8 = 923-8093
18R = 923-7275	470R = 923-7445	12K = 923-7763	330K = 923-7933	8M2 = 923-8107
22R = 923-7283	560R = 923-7461	15K = 923-7771	390K = 923-7941	10M = 923-8115

Order Code	Price Each 50+	1K+	5K+	15K+
All Values ● RL				

RC01 - 0.25 Watt ±5% (1206 Case Size)

Stocked in the following OHMIC Values:

5000 per Reel

0R = 924-0276	82R = 924-0390	820R = 924-0519	8K2 = 924-0632	82K = 924-0756
10R = 924-0284	100R = 924-0403	1K = 924-0527	10K = 924-0640	100K = 924-0764
12R = 924-0292	120R = 924-0411	1K2 = 924-0535	12K = 924-0659	120K = 924-0772
15R = 924-0306	150R = 924-0420	1K5 = 924-0543	15K = 924-0667	150K = 924-0780
18R = 924-0314	180R = 924-0438	1K8 = 924-0551	18K = 924-0675	220K = 924-0799
22R = 924-0322	220R = 924-0446	2K2 = 924-0560	22K = 924-0683	270K = 924-0802
27R = 924-0330	270R = 924-0454	2K7 = 924-0578	27K = 924-0691	330K = 924-0810
33R = 924-0349	330R = 924-0462	3K3 = 924-0586	33K = 924-0705	390K = 924-0829
39R = 924-0357	390R = 924-0470	3K9 = 924-0594	39K = 924-0713	470K = 924-0837
47R = 924-0365	470R = 924-0489	4K7 = 924-0608	47K = 924-0721	560K = 924-0845
56R = 924-0373	560R = 924-0497	5K6 = 924-0616	56K = 924-0730	680K = 924-0853
68R = 924-0381	680R = 924-0500	6K8 = 924-0624	68K = 924-0748	1M = 924-0870

Order Code	Price Each 50+	1K+	5K+	15K+
All Values ● RL				

RC02H - 0.25 Watt ±1% (1206 Case Size)

5000 per Reel

Stocked in the following OHMIC Values:

1R = 923-6520	10R = 923-6643	100R = 924-0888	1K = 924-0942	10K = 924-1000
1R2 = 923-6538	12R = 923-6651	120R = 923-6767	1K2 = 923-6821	12K = 923-6880
1R5 = 923-6546	15R = 923-6660	150R = 924-0896	1K5 = 924-0950	15K = 924-1019
1R8 = 923-6554	18R = 923-6678	180R = 923-6775	1K8 = 923-6830	18K = 923-6899
2R2 = 923-6562	22R = 923-6686	220R = 924-0900	2K2 = 924-0969	22K = 924-1027
2R7 = 923-6570	27R = 923-6694	270R = 923-6783	2K7 = 923-6848	27K = 923-6902
3R3 = 923-6589	33R = 923-6708	330R = 924-0918	3K3 = 924-0977	33K = 924-1035
3R9 = 923-6597	39R = 923-6716	390R = 923-6791	3K9 = 923-6856	39K = 923-6910
4R7 = 923-6600	47R = 923-6724	470R = 924-0926	4K7 = 924-0985	47K = 924-1043
5R6 = 923-6619	56R = 923-6732	560R = 923-6805	5K6 = 923-6864	56K = 923-6929
6R8 = 923-6627	68R = 923-6740	680R = 924-0934	6K8 = 924-0993	68K = 924-1051
8R2 = 923-6635	82R = 923-6759	820R = 923-6813	8K2 = 923-6872	82K = 923-6937

RoHS ● Compliant ▲ Non-compliant

100K =	**924-1060**	270K =	**923-6961**	680K =	**924-1116**	1M8 =	**923-7020**	4M7 =	**923-7070**
120K =	**923-6945**	330K =	**924-1094**	820K =	**923-6996**	2M2 =	**923-7038**	5M6 =	**923-7089**
150K =	**924-1078**	390K =	**923-6970**	1M =	**924-1124**	2M7 =	**923-7046**	6M8 =	**923-7097**
180K =	**923-6953**	470K =	**924-1108**	1M2 =	**923-7003**	3M3 =	**923-7054**	8M2 =	**923-7100**
220K =	**924-1086**	560K =	**923-6988**	1M5 =	**923-7011**	3M9 =	**923-7062**	10M =	**923-7119**

Order Code	Price Each 50+	1K+	5K+	15K+
All Values ● RL				

SRC01, Surge Resistor - 0.063 Watt ±5% (1206 Case Size)

5000 per Reel

Stocked in the following OHMIC Values:

2R2 = **923-9650**

Order Code	Price Each 50+	1K+	5K+	15K+
All Values ● RL SMD 923-9650 ● RL				

RC2512, 2 Watt ±5% (2512 Case Size)

Stocked in the following OHMIC Values:

1R =	**137-6972**	3R3 =	**137-6976**	10R =	**137-6979**	33R =	**137-6982**	100R =	**137-6985**
1R5 =	**137-6973**	4R7 =	**137-6977**	15R =	**137-6980**	47R =	**137-6983**	150R =	**137-6987**
2R2 =	**137-6975**	6R8 =	**137-6978**	22R =	**137-6981**				

207200

Order Code	Price Each 5+	25+	100+	500+
All Values ● RL				

RC Series - Laboratory Kits

- Surface mount resistor laboratory kits
- Choice of 0402, 0603, 0805 and 1206 case sizes

Type	RC31	RC32	RC32H	RC21	RC22H	RC12H	RC02H
Case size	0403	0403	0402	0603	0603	0805	1206
Series	E24	E96	E12	E24 + Jumper	E24 + Jumper	E24 + Jumper	E24 + Jumper
Resistor range	1Ω - 22MΩ	1Ω - 10MΩ	10Ω - 1MΩ	1Ω - 10MΩ	1Ω - 10MΩ	1Ω - 10MΩ	1Ω - 10MΩ
Resistance values			60	170	170	170	170
Resistors pieces			100	50	50	50	50
Power rating	63mW	63mW	63mW	100mW	100mW	125mW	250mW
Temp. coeff.	200ppm/°C (±100 ppm between 10-10MΩ)	200ppm/°C (±100 ppm between 10-10MΩ)	200ppm/°C	200ppm/°C	100ppm/°C	100ppm/°C	100ppm/°C
Tolerance	5%	1%	1%	5%	1%	5%	1%
Voltage max.	50V	50V	50V	50V	50V	150V	200V

207289

Order Code	Price Each 1+
RC32H 0402 Case size 1%	SMD 923-9642 ● RL
RC21 0603 Case size 5%	923-9871 ● RL
RC22H 0603 Case size 1%	SMD 923-9634 ● RL
RC12H 0805 Case size 1%	923-9880 ● RL
RC02H 1206 Case size 1%	923-9626 ● RL
RC31 0402 Case size 5%	190-1656 ●
RC32 0402 Case size 1%	190-1657 ●

Thick Film Chip Resistor

- Small package dimensions
- Power rating at 70 °C = 1/16 W
- Tight dimensional tolerances
- Three layer termination process with nickel barrier prevents leaching and provides excellent solderability
- Suitable for most types of soldering processes

Operating temperature -55°C to +125°C

Case Size	Dimensions (mm) L	W	H	Temperature Coefficient	Tolerance
0402	0.50	0.25	0.35	-250ppm/°C to +500ppm/°C	± 5%
0603	1.60	0.80	0.45	± 100ppm/°C	± 1% / ± 5%
0805	2.00	1.25	0.50	± 100ppm/°C	± 1% / ± 5%
1206	3.20	1.60	0.60	± 100ppm/°C	± 1% / ± 5%

1/16 Watt ±5% (0402 Case Size)

Stocked in the following OHMIC Values

0R = **200-8330**

0.1 Watt ±1% (0603 Case Size)

Stocked in the following OHMIC Values

10R =	**200-8331**	1K =	**200-8335**	4K7 =	**200-8340**
100R =	**200-8332**	2K =	**200-8337**	10K =	**200-8341**
120R =	**200-8333**	2K2 =	**200-8338**	100K =	**200-8342**
330R =	**200-8334**	3K3 =	**200-8339**		

0.1 Watt ±5% (0603 Case Size)

Stocked in the following OHMIC Values

0R =	**200-8343**	330R =	**200-8353**	10K =	**200-8360**
10R =	**200-8344**	470R =	**200-8354**	20K =	**200-8362**
22R =	**200-8345**	1K =	**200-8355**	22K =	**200-8363**
33R =	**200-8346**	1K5 =	**200-8356**	33K =	**200-8364**
47R =	**200-8347**	2K2 =	**200-8357**	47K =	**200-8365**
100R =	**200-8349**	4K7 =	**200-8358**	100K =	**200-8366**
120R =	**200-8351**	6K8 =	**200-8359**	1M =	**200-8367**
220R =	**200-8352**				

1/8 Watt ±1% (0805 Case Size)

Stocked in the following OHMIC Values

10R =	**200-8368**	270R =	**200-8375**	1K5 =	**200-8381**
47R =	**200-8369**	330R =	**200-8376**	3K3 =	**200-8382**
100R =	**200-8370**	470R =	**200-8377**	4K7 =	**200-8383**
120R =	**200-8371**	680R =	**200-8378**	10K =	**200-8384**
180R =	**200-8372**	820R =	**200-8379**	22K =	**200-8386**
220R =	**200-8374**	1K =	**200-8380**	100K =	**200-8387**

1/8 Watt ±5% (0805 Case Size)

Stocked in the following OHMIC Values

0R =	**200-8388**	1K =	**200-8389**	10K =	**200-8390**

1/4 Watt ±1% (1206 Case Size)

Stocked in the following OHMIC Values

10R =	**200-8391**	1K =	**200-8393**	10K =	**200-8395**
100R =	**200-8392**	2K2 =	**200-8394**		

1/4 Watt ±5% (1206 Case Size)

Stocked in the following OHMIC Values

0R =	**200-8396**	1K =	**200-8400**	47K =	**200-8402**
100R =	**200-8398**	10K =	**200-8401**	100K =	**200-8404**
470R =	**200-8399**				

659948

Case Size / W / Tolerance	Order Code	Price Each 50+	250+	1K+	5K+	10K+
0402 (1/16 - 5%)	All Values					
0603 (0.1 - 1%)	All Values					
0603 (0.1 - 5%)	All Values					
0805 (1/8 - 1%)	All Values					
0805 (1/8 - 5%)	All Values					
1206 (1/4 - 1%)	All Values					
1206 (1/4 - 5%)	All Values					

Ultra Precision Thick Flim Resistors

RE Series - 0.5% , 1%

- Ultra precision thick film chip resistors
- 0402, 0603, 0805 and 1206 case sizes
- 0.0625, 0.1, 0.125 and 0.25 Watt power ratings

Case Size	Dimensions Length	Width	Height	Max. Working Voltage (V)	Temperature Coefficient	Tolerance
0402	1	0.50	0.32	50	± 50ppm/°C	± 0.5%
0603	1.6	0.8	0.45	50	± 50ppm/°C	± 0.5%
0805	2	1.5	0.5	150	± 50ppm/°C	± 0.5%
1206	3.1	1.6	0.55	200	± 50ppm/°C	± 0.5%

0.0625 Watt (0402 case size)

Stocked in the following OHMIC values:

10R =	**184-0533**	220R =	**184-0543**	4K7 =	**184-0552**	100K =	**184-0560**
15R =	**184-0534**	330R =	**184-0544**	6K8 =	**184-0553**	150K =	**184-0561**
22R =	**184-0535**	470R =	**184-0545**	10K =	**184-0554**	220K =	**184-0562**
33R =	**184-0536**	680R =	**184-0546**	15K =	**184-0555**	330K =	**184-0564**
47R =	**184-0537**	1K =	**184-0547**	22K =	**184-0556**	470K =	**184-0565**
68R =	**184-0539**	1K5 =	**184-0548**	33K =	**184-0557**	680K =	**184-0566**
100R =	**184-0541**	2K2 =	**184-0549**	47K =	**184-0558**	1M =	**184-0567**
150R =	**184-0542**	3K3 =	**184-0550**	68K =	**184-0559**		

Order Code	Price Each 50+	500+	1K+	5K+
All Values ●				

0.1 Watt (0603 case size)

Stocked in the following OHMIC values:

10R =	**184-0568**	220R =	**184-0577**	4K7 =	**184-0585**	100K =	**184-0594**
15R =	**184-0569**	330R =	**184-0578**	6K8 =	**184-0586**	150K =	**184-0595**
22R =	**184-0570**	470R =	**184-0579**	10K =	**184-0588**	220K =	**184-0596**
33R =	**184-0571**	680R =	**184-0580**	15K =	**184-0589**	330K =	**184-0597**
47R =	**184-0572**	1K =	**184-0581**	22K =	**184-0590**	470K =	**184-0598**
68R =	**184-0573**	1K5 =	**184-0582**	33K =	**184-0591**	680K =	**184-0600**
100R =	**184-0574**	2K2 =	**184-0583**	47K =	**184-0592**	1M =	**184-0601**
150R =	**184-0576**	3K3 =	**184-0584**	68K =	**184-0593**		

Ultra Precision Thick Flim Resistors - continued

RE Series - 0.5% , 1% - continued

Order Code	Price Each 50+	500+	1K+	5K+
All Values●				

0.125 Watt (0805 case size)

Stocked in the following OHMIC values:

10R = **184-0602**	220R = **184-0611**	4K7 = **184-0620**	100K = **184-0628**
15R = **184-0603**	330R = **184-0612**	6K8 = **184-0621**	150K = **184-0631**
22R = **184-0604**	470R = **184-0613**	10K = **184-0622**	220K = **184-0632**
33R = **184-0606**	680R = **184-0614**	15K = **184-0623**	330K = **184-0633**
47R = **184-0607**	1K = **184-0615**	22K = **184-0624**	470K = **184-0634**
68R = **184-0608**	1K5 = **184-0616**	33K = **184-0625**	680K = **184-0635**
100R = **184-0609**	2K2 = **184-0618**	47K = **184-0626**	1M = **184-0636**
150R = **184-0610**	3K3 = **184-0619**	68K = **184-0627**	

Order Code	Price Each 50+	500+	1K+	5K+
All Values ●				

0.25 Watt (1206 case size)

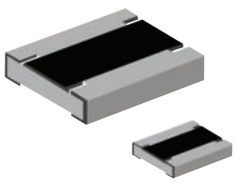
Stocked in the following OHMIC values:

10R = **184-0637**	220R = **184-0646**	4K7 = **184-0655**	100K = **184-0663**
15R = **184-0638**	330R = **184-0647**	6K8 = **184-0656**	150K = **184-0664**
22R = **184-0639**	470R = **184-0648**	10K = **184-0657**	220K = **184-0665**
33R = **184-0640**	680R = **184-0649**	15K = **184-0658**	330K = **184-0667**
47R = **184-0641**	1K = **184-0650**	22K = **184-0659**	470K = **184-0668**
68R = **184-0643**	1K5 = **184-0651**	33K = **184-0660**	680K = **184-0669**
100R = **184-0644**	2K2 = **184-0652**	47K = **184-0661**	1M = **184-0670**
150R = **184-0645**	3K3 = **184-0653**	68K = **184-0662**	

618868

Order Code	Price Each 50+	500+	1K+	5K+
All Values ●				

Long Side Terminal Resistors



- Enhanced power rating
- Protective overglaze
- Compliant to RoHS directive 2002/95/EC
- Halogen-free according to IEC 61249-2-21 definition
- AEC-Q200, rev. C compliant

	Tolerance	Voltage Rating	Power Rating	Temperature Rating
0612	± 1%	75V	500mW	± 100ppm/K
1218	± 1%	200V	1W	± 100ppm/K
1225	± 1%	200V	2W	± 100ppm/K

0612 Case Size

Stocked in the following OHMIC values:

1R = **187-7828**	22R = **187-7837**	470R = **187-7845**	6K8 = **187-7853**	100K = **187-7862**
1R5 = **187-7829**	33R = **187-7838**	680R = **187-7846**	10K = **187-7854**	150K = **187-7863**
2R2 = **187-7830**	47R = **187-7839**	1K = **187-7848**	15K = **187-7855**	220K = **187-7864**
3R3 = **187-7831**	68R = **187-7840**	1K5 = **187-7849**	22K = **187-7856**	330K = **187-7865**
4R7 = **187-7832**	100R = **187-7841**	2K2 = **187-7850**	33K = **187-7857**	470K = **187-7866**
6R8 = **187-7833**	150R = **187-7842**	3K3 = **187-7851**	47K = **187-7858**	680K = **187-7867**
10R = **187-7834**	220R = **187-7843**	4K7 = **187-7852**	68K = **187-7861**	1M = **187-7868**
15R = **187-7836**	330R = **187-7844**			

Order Code	Price Each 50+	250+	500+	1K+	5K+
All Values					

1218 Case Size

Stocked in the following OHMIC values:

1R = **187-7869**	22R = **187-7878**	470R = **187-7887**	6K8 = **187-7894**	100K = **187-7903**
1R5 = **187-7870**	33R = **187-7879**	680R = **187-7888**	10K = **187-7895**	150K = **187-7904**
2R2 = **187-7871**	47R = **187-7880**	1K = **187-7889**	15K = **187-7897**	220K = **187-7905**
3R3 = **187-7873**	68R = **187-7881**	1K5 = **187-7890**	22K = **187-7898**	330K = **187-7906**
4R7 = **187-7874**	100R = **187-7882**	2K2 = **187-7891**	33K = **187-7899**	470K = **187-7907**
6R8 = **187-7875**	150R = **187-7883**	3K3 = **187-7892**	47K = **187-7900**	680K = **187-7908**
10R = **187-7876**	220R = **187-7885**	4K7 = **187-7893**	68K = **187-7901**	1M = **187-7909**
15R = **187-7877**	330R = **187-7886**			

Order Code	Price Each 50+	250+	500+	1K+	4K+
All Values					

1225 Case Size

Stocked in the following OHMIC values:

1R = **187-7910**	22R = **187-7919**	470R = **187-7928**	6K8 = **187-7935**	100K = **187-7944**
1R5 = **187-7911**	33R = **187-7920**	680R = **187-7929**	10K = **187-7936**	150K = **187-7945**
2R2 = **187-7912**	47R = **187-7921**	1K = **187-7930**	15K = **187-7937**	220K = **187-7946**
3R3 = **187-7913**	68R = **187-7922**	1K5 = **187-7931**	22K = **187-7939**	330K = **187-7947**
4R7 = **187-7915**	100R = **187-7923**	2K2 = **187-7932**	33K = **187-7941**	470K = **187-7948**
6R8 = **187-7916**	150R = **187-7924**	3K3 = **187-7933**	47K = **187-7942**	680K = **187-7949**
10R = **187-7917**	220R = **187-7925**	4K7 = **187-7934**	68K = **187-7943**	1M = **187-7950**
15R = **187-7918**	330R = **187-7927**			

627338

Values	Price Each 25+	100+	250+	500+	2K+
All Values					

Wide Terminal Resistors

- High solder joint reliability
- Excellent heat dissipation characteristics
- AECQ-200 Automotive Approved

	0805	1206
Tolerance	± 1%	± 1% (0R01 = ± 5%)
Operating temperature	-55°C to +155°C	
Voltage rating	150V	200V
Power rating	0.33, 0.5 (R ≤ 1Ω)	0.5W
Temperature coefficient	R <56 mΩ: 0 to +300 56 mΩ ≤R< 1.2Ω:0 to +200 1.2Ω≤R≤10Ω: ±100	<22mR = 0 to +300 ≥22mR, <47mR = 0 to +200 ≥47mR, <100mR = 0 to +150 ≥100mR = ± 100ppm/°C

	2010	2512
Tolerance	± 5%	
Operating temperature	-55°C to +155°C	
Voltage rating	200V	
Power rating	1W	1.33W
Temperature coefficient	<22mR = ±350ppm/°C ≥22mR, <47mR = ± 200ppm/°C ≥47mR, <100mR = ± 150ppm/°C ≥100mR = ± 200ppm/°C	± 350ppm/°C

0805 Case Size

Stocked in the following OHMIC values:

0R022 = **175-0959**	0R082 = **175-0967**	0R33 = **175-0974**	1R2 = **175-0982**	3R9 = **175-0989**
0R027 = **175-0960**	0R1 = **175-0968**	0R39 = **175-0976**	1R5 = **175-0983**	4R7 = **175-0990**
0R033 = **175-0961**	0R12 = **175-0969**	0R47 = **175-0977**	1R8 = **175-0984**	5R6 = **175-0991**
0R039 = **175-0962**	0R15 = **175-0970**	0R56 = **175-0978**	2R2 = **175-0985**	6R8 = **175-0992**
0R047 = **175-0964**	0R18 = **175-0971**	0R68 = **175-0979**	2R7 = **175-0986**	8R2 = **175-0993**
0R056 = **175-0965**	0R22 = **175-0972**	0R82 = **175-0980**	3R3 = **175-0988**	10R = **175-0994**
0R068 = **175-0966**	0R27 = **175-0973**	1R = **175-0981**		

Values	Price Each 5+	50+	100+	500+	5K+
0R to 0R082●					
0R1 to 0R18●					
0R22 to 10R●					

1206 Case Size

Stocked in the following OHMIC values:

0R01 = **175-0995**	0R18 = **175-1012**	3R3 = **175-1030**	56R = **175-1046**	820R = **175-1075**
0R012 = **175-0996**	0R22 = **175-1014**	3R9 = **175-1031**	68R = **175-1047**	1K = **175-1076**
0R015 = **175-0997**	0R27 = **175-1015**	4R7 = **175-1032**	82R = **175-1048**	1K2 = **175-1077**
0R018 = **175-0998**	0R33 = **175-1016**	5R6 = **175-1033**	100R = **175-1052**	1K5 = **175-1078**
0R022 = **175-1000**	0R39 = **175-1017**	6R8 = **175-1034**	120R = **175-1055**	1K8 = **175-1079**
0R027 = **175-1002**	0R47 = **175-1018**	8R2 = **175-1035**	150R = **175-1057**	2K2 = **175-1080**
0R033 = **175-1003**	0R56 = **175-1019**	10R = **175-1036**	180R = **175-1060**	2K7 = **175-1081**
0R039 = **175-1004**	0R68 = **175-1020**	12R = **175-1038**	220R = **175-1064**	3K3 = **175-1082**
0R047 = **175-1005**	0R82 = **175-1021**	15R = **175-1039**	270R = **175-1067**	3K9 = **175-1083**
0R056 = **175-1006**	1R = **175-1022**	18R = **175-1040**	330R = **175-1069**	4K7 = **175-1084**
0R068 = **175-1007**	1R2 = **175-1024**	22R = **175-1041**	390R = **175-1070**	5K6 = **175-1085**
0R082 = **175-1008**	1R5 = **175-1026**	27R = **175-1042**	470R = **175-1071**	6K8 = **175-1087**
0R1 = **175-1009**	1R8 = **175-1027**	33R = **175-1043**	560R = **175-1072**	8K2 = **175-1088**
0R12 = **175-1010**	2R2 = **175-1028**	39R = **175-1044**	680R = **175-1073**	10K = **175-1089**
0R15 = **175-1011**	2R7 = **175-1029**	47R = **175-1045**		

Values	Price Each 5+	50+	100+	500+	5K+
0R to 0R18●					
0R22 to 8R2●					
10R to 10K●					

2010 Case Size

Stocked in the following OHMIC values:

0R01 = **167-0349**	0R33 = **167-0369**	4R7 = **167-0385**	82R = **167-0401**	820R = **167-0415**
0R012 = **167-0350**	0R47 = **167-0371**	5R6 = **167-0386**	100R = **167-0403**	1K = **167-0416**
0R022 = **167-0353**	0R56 = **167-0373**	6R8 = **167-0387**	120R = **167-0404**	1K2 = **167-0417**
0R027 = **167-0354**	0R68 = **167-0374**	8R2 = **167-0388**	150R = **167-0405**	1K5 = **167-0418**
0R033 = **167-0355**	0R82 = **167-0375**	10R = **167-0389**	180R = **167-0406**	1K8 = **167-0419**
0R039 = **167-0356**	1R = **167-0376**	15R = **167-0391**	220R = **167-0407**	2K2 = **167-0420**
0R047 = **167-0357**	1R2 = **167-0377**	18R = **167-0392**	270R = **167-0408**	2K7 = **167-0421**
0R056 = **167-0358**	1R5 = **167-0378**	22R = **167-0393**	330R = **167-0409**	3K9 = **167-0423**
0R068 = **167-0361**	1R8 = **167-0379**	27R = **167-0394**	390R = **167-0410**	4K7 = **167-0424**
0R082 = **167-0362**	2R2 = **167-0380**	39R = **167-0397**	470R = **167-0411**	5K6 = **167-0425**
0R1 = **167-0363**	2R7 = **167-0381**	47R = **167-0398**	560R = **167-0412**	6K8 = **167-0427**
0R15 = **167-0365**	3R9 = **167-0383**	68R = **167-0400**	680R = **167-0413**	10K = **167-0429**

Values	Price Each 5+	50+	100+	500+	1K+
0.01Ω - 0.15Ω ●					
0.33Ω - 8.2Ω ●					
10Ω - 10kΩ ●					

2512 Case Size

Stocked in the following OHMIC values:

0R01 = **167-0267**	0R033 = **167-0275**	0R082 = **167-0280**	0R27 = **167-0287**	1R2 = **167-0296**
0R012 = **167-0269**	0R039 = **167-0276**	0R1 = **167-0282**	0R33 = **167-0288**	1R5 = **167-0297**
0R015 = **167-0271**	0R047 = **167-0277**	0R12 = **167-0283**	0R39 = **167-0289**	1R8 = **167-0298**
0R018 = **167-0272**	0R056 = **167-0278**	0R18 = **167-0285**	0R56 = **167-0291**	2R2 = **167-0299**
0R027 = **167-0274**	0R068 = **167-0279**	0R22 = **167-0286**	1R = **167-0295**	2R7 = **167-0301**

RoHS ● Compliant ▲ Non-compliant

3R3 = **167-0302**	18R = **167-0312**	100R = **167-0321**	680R = **167-0332**	3K3 = **167-0341**
3R9 = **167-0303**	22R = **167-0313**	120R = **167-0322**	1K = **167-0334**	3K9 = **167-0342**
4R7 = **167-0304**	33R = **167-0315**	150R = **167-0324**	1K2 = **167-0336**	5K6 = **167-0344**
6R8 = **167-0306**	39R = **167-0316**	220R = **167-0326**	1K5 = **167-0337**	6K8 = **167-0345**
10R = **167-0308**	47R = **167-0317**	330R = **167-0328**	1K8 = **167-0338**	8K2 = **167-0346**
12R = **167-0309**	56R = **167-0318**	390R = **167-0329**	2K2 = **167-0339**	10K = **167-0348**
15R = **167-0310**	82R = **167-0320**	470R = **167-0330**	2K7 = **167-0340**	

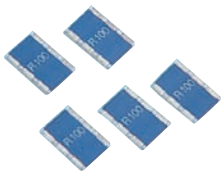
527242

	Price Each				
Values	5+	50+	100+	500+	1K+
0.01Ω - 0.18Ω ●					
0.22Ω - 8.2Ω ●					
10Ω - 10kΩ ●					

RL **FREE Re-reeling service.** Only buy what you need and improve assembly efficiency. For more information visit **local website**

PRC201 Series — 1 Watt ±5% & 1%

1218 Case Size



- Surface mount power chip
- 1 watt heat dissipation
- Applications include Audio, Hi-Fi and Power Supplies

Power rating @ 70°C	1W
Temperature coefficient	10R =±200ppm/°C 15R to 1M = ±200ppm/°C
Voltage rating	200V
Maximum overload voltage	600V
Operating temperature	-55°C to + 155°C

L=4.6,W=3.05,H=0.55

Supplied on 8mm tape (reel=5K pcs)

±5% Tolerance

Stocked in the following OHMIC values:

0R = **923-5817**	15R = **923-9901**	330R = **923-9987**	4K7 = **924-0055**	68K = **924-0128**
1R = **923-6295**	22R = **923-9910**	470R = **923-9995**	6K8 = **924-0063**	100K = **924-0136**
1R5 = **923-6309**	33R = **923-9928**	680R = **924-0004**	10K = **924-0071**	150K = **924-0144**
2R2 = **923-6317**	47R = **923-9936**	1K = **924-0012**	15K = **924-0080**	220K = **924-0152**
3R3 = **923-6325**	68R = **923-9944**	1K5 = **924-0020**	22K = **924-0098**	330K = **924-0160**
4R7 = **923-6333**	100R = **923-9952**	2K2 = **924-0039**	33K = **924-0101**	470K = **924-0179**
6R8 = **923-6341**	150R = **923-9960**	3K3 = **924-0047**	47K = **924-0110**	1M = **924-0195**
10R = **923-9898**	220R = **923-9979**			

	Price Each			
Order Code	10+	100+	1K+	4K+
All Values RL				

±1% Tolerance

Stocked in the following OHMIC values:

1R = **923-9669**	10R = **923-9707**	220R = **923-9740**	4K7 = **923-9782**
1R2 = **923-9677**	22R = **923-9715**	470R = **923-9758**	10K = **923-9790**
4R7 = **923-9685**	47R = **923-9723**	1K = **923-9766**	22K = **923-9804**
8R2 = **923-9693**	100R = **923-9731**	2K2 = **923-9774**	

207214

	Price Each			
Order Code	10+	100+	1K+	3K+
All Values ● RL				

PRC111 Series - 0.5 Watt 1%

- Surface mount power chip
- 0.5 Watt heat dissipation
- Compact 2010 case size

L=5 W=2.5 H=0.55
Supplied on tape (reel = 4K pcs)

Voltage rating	200V a.c./d.c.	Resistance tolerance	±1%
Power rating @ 70°C	750mW	Climatic category (IEC60068)	55/125/56
Operating temperature	-55°C to + 125°C		

Stocked in the following OHMIC values:

0R = **923-5523**	6R8 = **923-5582**	470R = **923-5647**	22K = **923-5698**	1M = **923-5744**
1R = **923-5531**	10R = **923-5590**	1K = **923-5655**	47K = **923-5701**	3M3 = **923-5779**
1R5 = **923-5540**	22R = **923-5604**	2K2 = **923-5663**	100K = **923-5710**	4M7 = **923-5787**
2R2 = **923-5558**	47R = **923-5612**	4K7 = **923-5671**	220K = **923-5728**	6M8 = **923-5795**
3R3 = **923-5566**	100R = **923-5620**	10K = **923-5680**	470K = **923-5736**	10M = **923-5809**
4R7 = **923-5574**	220R = **923-5639**			

207368

	Price Each			
Order Code	10+	100+	1K+	4K+
All Values ● RL				

PRC221 Series - 1 Watt

- 1% & 5% tolerance
- Surface mount power chip
- 1 Watt heat dissipation
- Compact 2512 case size

Power rating @ 70°C	1W
Voltage rating	200V a.c./d.c.
Operating temperature	-55°C to + 155°C

± 5%

Stocked in the following OHMIC values:

0R = **923-5825**	6R8 = **923-5884**	470R = **923-5949**	22K = **923-5990**	1M = **923-6040**
1R = **923-5833**	10R = **923-5892**	1K = **923-5957**	47K = **923-6007**	1M5 = **923-6058**
1R5 = **923-5841**	22R = **923-5906**	2K2 = **923-5965**	100K = **923-6015**	2M2 = **923-6066**
2R2 = **923-5850**	47R = **923-5914**	4K7 = **923-5973**	220K = **923-6023**	4M7 = **923-6074**
3R3 = **923-5868**	100R = **923-5922**	10K = **923-5981**	470K = **923-6031**	10M = **923-6082**
4R7 = **923-5876**	220R = **923-5930**			

± 1%

Stocked in the following OHMIC values:

1R = **128-3120**	15R = **128-3128**	220R = **128-3129**	3K3 = **128-3137**	47K = **128-3144**
1R5 = **128-3127**	22R = **128-3135**	330R = **128-3136**	4K7 = **128-3143**	68K = **128-3151**
2R2 = **128-3134**	33R = **128-3141**	470R = **128-3142**	6K8 = **128-3150**	100K = **128-3118**
3R3 = **128-3140**	47R = **128-3148**	680R = **128-3149**	10K = **128-3117**	150K = **128-3126**
4R7 = **128-3147**	68R = **128-3154**	1K = **128-3116**	15K = **128-3125**	220K = **128-3132**
6R8 = **128-3153**	100R = **128-3115**	1K5 = **128-3124**	22K = **128-3131**	330K = **128-3139**
10R = **128-3122**	150R = **128-3123**	2K2 = **128-3130**	33K = **128-3138**	1M = **128-3119**

452194

		Price Each			
	Order Code	**5+**	**100+**	**1K+**	**4K+**
± 1%	**All Values** ● RL				
		10+	**100+**	**1K+**	**4K+**
± 5%	**All Values** ● RL				

High Temperature Chip Resistors

NEW

HTCR Series

- High temperature operation.
- For gold wire bond (G type) conductive adhesive (G, P & EW types)

	0805 Case Size	1206 Case Size	2010 Case Size	2512 Case Size
Power Rating	125mW	250mW	625mW	1W
Resistance Tolerance	± 1%	± 1%	± 1%	± 1%
Voltage Rating	150V	200V	400V	500V
Temperature Coefficient	± 200ppm/°C	± 200ppm/°C	± 200ppm/°C	± 200ppm/°C
Operating Temperature Range	-55°C to +200°C	-55°C to +200°C	-55°C to +200°C	-55°C to +200°C

0805 Case

Stocked in the following OHMIC Values:

1R = **208-2043**	68R = **208-2055**	4K7 = **208-2067**	220K = **208-2079**
1R5 = **208-2045**	100R = **208-2057**	6K8 = **208-2069**	330K = **208-2080**
2R2 = **208-2046**	150R = **208-2058**	10K = **208-2071**	470K = **208-2082**
3R3 = **208-2047**	220R = **208-2059**	15K = **208-2072**	680K = **208-2083**
4R7 = **208-2048**	330R = **208-2060**	22K = **208-2073**	1M = **208-2084**
6R8 = **208-2049**	470R = **208-2061**	33K = **208-2074**	1M5 = **208-2085**
10R = **208-2050**	680R = **208-2062**	47K = **208-2075**	2M2 = **208-2086**
15R = **208-2051**	1K = **208-2063**	68K = **208-2076**	3M3 = **208-2087**
22R = **208-2052**	1K5 = **208-2064**	100K = **208-2077**	4M7 = **208-2088**
33R = **208-2053**	2K2 = **208-2065**	150K = **208-2078**	6M8 = **208-2089**
47R = **208-2054**	3K3 = **208-2066**		

	Price Each				
Order Code	5+	50+	250+	500+	1K+
All Values ●					

1206 Case

Stocked in the following OHMIC Values:

1R = **208-2090**	68R = **208-2103**	4K7 = **208-2115**	220K = **208-2126**
1R5 = **208-2091**	100R = **208-2104**	6K8 = **208-2116**	330K = **208-2127**
2R2 = **208-2092**	150R = **208-2105**	10K = **208-2117**	470K = **208-2128**
3R3 = **208-2094**	220R = **208-2106**	15K = **208-2118**	680K = **208-2129**
4R7 = **208-2095**	330R = **208-2107**	22K = **208-2119**	1M = **208-2130**
6R8 = **208-2096**	470R = **208-2108**	33K = **208-2120**	1M5 = **208-2131**
10R = **208-2097**	680R = **208-2109**	47K = **208-2121**	2M2 = **208-2132**
15R = **208-2098**	1K = **208-2110**	68K = **208-2122**	3M3 = **208-2133**
22R = **208-2099**	1K5 = **208-2112**	100K = **208-2124**	4M7 = **208-2134**
33R = **208-2101**	2K2 = **208-2113**	150K = **208-2125**	6M8 = **208-2136**
47R = **208-2102**	3K3 = **208-2114**		

	Price Each				
Order Code	5+	50+	250+	500+	1K+
All Values ●					

2010 Case

Stocked in the following OHMIC Values:

1R = **208-2137**	68R = **208-2149**	4K7 = **208-2162**	220K = **208-2173**
1R5 = **208-2138**	100R = **208-2150**	6K8 = **208-2163**	330K = **208-2174**
2R2 = **208-2139**	150R = **208-2151**	10K = **208-2164**	470K = **208-2175**
3R3 = **208-2140**	220R = **208-2152**	15K = **208-2165**	680K = **208-2176**
4R7 = **208-2141**	330R = **208-2153**	22K = **208-2166**	1M = **208-2177**
6R8 = **208-2142**	470R = **208-2154**	33K = **208-2167**	1M5 = **208-2178**
10R = **208-2143**	680R = **208-2155**	47K = **208-2168**	2M2 = **208-2179**
15R = **208-2144**	1K = **208-2156**	68K = **208-2169**	3M3 = **208-2180**
22R = **208-2145**	1K5 = **208-2157**	100K = **208-2170**	4M7 = **208-2181**
33R = **208-2146**	2K2 = **208-2158**	150K = **208-2171**	6M8 = **208-2182**
47R = **208-2148**	3K3 = **208-2161**		

	Price Each				
Order Code	5+	50+	250+	500+	1K+
All Values ●					

2512 Case

Stocked in the following OHMIC Values:

1R = **208-2183**	1R5 = **208-2185**	2R2 = **208-2186**	3R3 = **208-2187**

High Temperature Chip Resistors - continued

HTCR Series - continued

4R7 = **208-2188**	220R = **208-2199**	10K = **208-2210**	330K = **208-2220**
6R8 = **208-2189**	330R = **208-2200**	15K = **208-2211**	470K = **208-2221**
10R = **208-2190**	470R = **208-2201**	22K = **208-2212**	680K = **208-2222**
15R = **208-2191**	680R = **208-2203**	33K = **208-2213**	1M = **208-2223**
22R = **208-2192**	1K = **208-2204**	47K = **208-2215**	1M5 = **208-2224**
33R = **208-2193**	1K5 = **208-2205**	68K = **208-2216**	2M2 = **208-2225**
47R = **208-2194**	2K2 = **208-2206**	100K = **208-2217**	3M3 = **208-2227**
68R = **208-2195**	3K3 = **208-2207**	150K = **208-2218**	4M7 = **208-2228**
100R = **208-2197**	4K7 = **208-2208**	220K = **208-2219**	6M8 = **208-2229**
150R = **208-2198**	6K8 = **208-2209**		

653762

	Price Each				
Order Code	5+	50+	250+	500+	1K+
All Values ●					

High Glueable Chip Resistors

NEW

TT electronics Welwyn Components

GCR Series

SMD

Features
- Suitable for conductive adhesive
- High temperature operation to 200°C

	0805 Case Size	1206 Case Size	2010 Case Size
Power Rating	125mW	250mW	625mW
Resistance Tolerance	± 1%	± 1%	± 1%
Voltage Rating	150V	200V	400V
Temperature Coefficient	± 200ppm/°C	± 100ppm/°C	± 200ppm/°C
Operating Temperature Range	-55°C to +200°C	-55°C to +200°C	-55°C to +200°C

0805 Case

Stocked in the following OHMIC Values:

1R = **208-1900**	68R = **208-1913**	4K7 = **208-1925**	220K = **208-1936**
1R5 = **208-1901**	100R = **208-1914**	6K8 = **208-1926**	330K = **208-1937**
2R2 = **208-1902**	150R = **208-1915**	10K = **208-1927**	470K = **208-1938**
3R3 = **208-1903**	220R = **208-1916**	15K = **208-1928**	680K = **208-1939**
4R7 = **208-1904**	330R = **208-1917**	22K = **208-1929**	1M = **208-1940**
6R8 = **208-1905**	470R = **208-1918**	33K = **208-1930**	1M5 = **208-1941**
10R = **208-1906**	680R = **208-1919**	47K = **208-1931**	2M2 = **208-1942**
15R = **208-1907**	1K = **208-1920**	68K = **208-1932**	3M3 = **208-1943**
22R = **208-1909**	1K5 = **208-1922**	100K = **208-1934**	4M7 = **208-1944**
33R = **208-1911**	2K2 = **208-1923**	150K = **208-1935**	6M8 = **208-1946**
47R = **208-1912**	3K3 = **208-1924**		

	Price Each				
Order Code	1+	50+	100+	500+	1K+
All Values ●					

1206 Case

Stocked in the following OHMIC Values:

1R = **208-1947**	68R = **208-1959**	4K7 = **208-1972**	220K = **208-1983**
1R5 = **208-1948**	100R = **208-1960**	6K8 = **208-1973**	330K = **208-1984**
2R2 = **208-1949**	150R = **208-1961**	10K = **208-1974**	470K = **208-1985**
3R3 = **208-1950**	220R = **208-1962**	15K = **208-1975**	680K = **208-1986**
4R7 = **208-1951**	330R = **208-1963**	22K = **208-1976**	1M = **208-1987**
6R8 = **208-1952**	470R = **208-1964**	33K = **208-1977**	1M5 = **208-1988**
10R = **208-1953**	680R = **208-1965**	47K = **208-1978**	2M2 = **208-1989**
15R = **208-1954**	1K = **208-1966**	68K = **208-1979**	3M3 = **208-1990**
22R = **208-1955**	1K5 = **208-1967**	100K = **208-1980**	4M7 = **208-1991**
33R = **208-1956**	2K2 = **208-1968**	150K = **208-1981**	6M8 = **208-1992**
47R = **208-1958**	3K3 = **208-1971**		

	Price Each				
Order Code	1+	50+	100+	500+	1K+
All Values ●					

2010 Case

Stocked in the following OHMIC Values:

1R = **208-1993**	68R = **208-2005**	4K7 = **208-2017**	220K = **208-2029**
1R5 = **208-1995**	100R = **208-2006**	6K8 = **208-2018**	330K = **208-2030**
2R2 = **208-1996**	150R = **208-2008**	10K = **208-2021**	470K = **208-2031**
3R3 = **208-1997**	220R = **208-2009**	15K = **208-2022**	680K = **208-2033**
4R7 = **208-1998**	330R = **208-2010**	22K = **208-2023**	1M = **208-2034**
6R8 = **208-1999**	470R = **208-2011**	33K = **208-2024**	1M5 = **208-2035**
10R = **208-2000**	680R = **208-2012**	47K = **208-2025**	2M2 = **208-2036**
15R = **208-2001**	1K = **208-2013**	68K = **208-2026**	3M3 = **208-2037**
22R = **208-2002**	1K5 = **208-2014**	100K = **208-2027**	4M7 = **208-2038**
33R = **208-2003**	2K2 = **208-2015**	150K = **208-2028**	6M8 = **208-2039**
47R = **208-2004**	3K3 = **208-2016**		

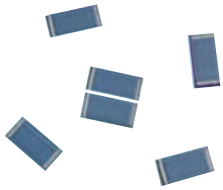
656155

	Price Each				
Order Code	1+	50+	100+	500+	1K+
All Values ●					

Double Sided Chip Resistors

TT electronics Welwyn Components

DSC Series



SMD

Case Size	Power Rating @ 70°C	Tolerance	Temperature Coefficient	Operating temperature	Length	Width	Depth
2010	750mW	5%	100ppm/°C	-55°C to 155°C	5.1	2.5	0.8
2512	1.5W	5%	100ppm/°C	-55°C to 155°C	6.5	3.2	0.8

Stocked in the following OHMIC Values:

2010 Cases

15R = **111-4674**	100R = **111-4679**	1K5 = **111-4687**	2K2 = **111-4688**

	Price Each				
Order Code	10+	100+	500+	1K+	3K+
All Values ● RL					

2512 Cases

Stocked in the following OHMIC Values:

33R = **111-4704**	220R = **111-4709**	1K5 = **111-4715**	33K = **111-4723**
47R = **111-4705**	330R = **111-4710**	3K3 = **111-4717**	68K = **111-4726**
100R = **111-4707**	470R = **111-4711**	15K = **111-4721**	100K = **111-4727**
150R = **111-4708**	1K = **111-4714**		

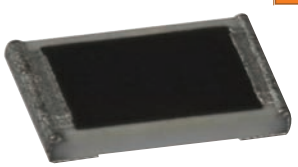
423788

	Price Each				
Order Code	10+	100+	500+	1K+	1K8+
All Values ● RL					

CRG Series Resistors 0201

NEW

Tyco Electronics



SMD

Features
- 0.05 Watts at 70°C
- Values down to R10
- Ideal for current detection
- Value marked on resistor
- tolerance 1%

This thick film chip resistor for current sensing positions. It has a special metal glaze resistive element and a nickel barrier layer beneath the solder to prolong terminal life. Following the developments by semiconductor manufacturers in the production of a range of IC's for battery charge management and low voltage power supplies, the RL73 Series satisfies the demand for a low ohmic shunt resistor to act as a current sensor.

Resistance ohm	Tolerance	Power W	Voltage V	Temperature Coefficient	Mftrs. List No.	Order Code
10R	± 1%	50	25	± 200ppm/°C	CRG0201F10R	211-6094
10R5	± 1%	50	25	± 200ppm/°C	CRG0201F10R5	211-6095
11R	± 1%	50	25	± 200ppm/°C	CRG0201F11R	211-6096
11R5	± 1%	50	25	± 200ppm/°C	CRG0201F11R5	211-6097
12R1	± 1%	50	25	± 200ppm/°C	CRG0201F12R1	211-6098
12R7	± 1%	50	25	± 200ppm/°C	CRG0201F12R7	211-6099
13R3	± 1%	50	25	± 200ppm/°C	CRG0201F13R3	211-6100
14R	± 1%	50	25	± 200ppm/°C	CRG0201F14R	211-6101
14R7	± 1%	50	25	± 200ppm/°C	CRG0201F14R7	211-6102
15R4	± 1%	50	25	± 200ppm/°C	CRG0201F15R4	211-6103
16R2	± 1%	50	25	± 200ppm/°C	CRG0201F16R2	211-6104
16R9	± 1%	50	25	± 200ppm/°C	CRG0201F16R9	211-6105
17R8	± 1%	50	25	± 200ppm/°C	CRG0201F17R8	211-6106
15R7	± 1%	50	25	± 200ppm/°C	CRG0201F18R7	211-6107
19R6	± 1%	50	25	± 200ppm/°C	CRG0201F19R6	211-6109
205R	± 1%	50	25	± 200ppm/°C	CRG0201F20R5	211-6111
215R	± 1%	50	25	± 200ppm/°C	CRG0201F21R5	211-6112
226R	± 1%	50	25	± 200ppm/°C	CRG0201F22R6	211-6113
23R7	± 1%	50	25	± 200ppm/°C	CRG0201F23R7	211-6114
24R9	± 1%	50	25	± 200ppm/°C	CRG0201F24R9	211-6115
26R1	± 1%	50	25	± 200ppm/°C	CRG0201F26R1	211-6116
27R4	± 1%	50	25	± 200ppm/°C	CRG0201F27R4	211-6117
28R7	± 1%	50	25	± 200ppm/°C	CRG0201F28R7	211-6118
30R1	± 1%	50	25	± 200ppm/°C	CRG0201F30R1	211-6119
31R6	± 1%	50	25	± 200ppm/°C	CRG0201F31R6	211-6120
33R2	± 1%	50	25	± 200ppm/°C	CRG0201F33R2	211-6122
34R8	± 1%	50	25	± 200ppm/°C	CRG0201F34R8	211-6123
36R5	± 1%	50	25	± 200ppm/°C	CRG0201F36R5	211-6124
38R3	± 1%	50	25	± 200ppm/°C	CRG0201F38R3	211-6125
40R2	± 1%	50	25	± 200ppm/°C	CRG0201F40R2	211-6126
42R2	± 1%	50	25	± 200ppm/°C	CRG0201F42R2	211-6127
44R2	± 1%	50	25	± 200ppm/°C	CRG0201F44R2	211-6128
46R4	± 1%	50	25	± 200ppm/°C	CRG0201F46R4	211-6129
48R7	± 1%	50	25	± 200ppm/°C	CRG0201F48R7	211-6130
51R1	± 1%	50	25	± 200ppm/°C	CRG0201F51R1	211-6131
53R6	± 1%	50	25	± 200ppm/°C	CRG0201F53R6	211-6132
56R2	± 1%	50	25	± 200ppm/°C	CRG0201F56R2	211-6134
59R	± 1%	50	25	± 200ppm/°C	CRG0201F59R	211-6135
61R9	± 1%	50	25	± 200ppm/°C	CRG0201F61R9	211-6136
64R9	± 1%	50	25	± 200ppm/°C	CRG0201F64R9	211-6137
68R1	± 1%	50	25	± 200ppm/°C	CRG0201F68R1	211-6138
71R5	± 1%	50	25	± 200ppm/°C	CRG0201F71R5	211-6139
75R	± 1%	50	25	± 200ppm/°C	CRG0201F75R	211-6140
78R7	± 1%	50	25	± 200ppm/°C	CRG0201F78R7	211-6141
82R5	± 1%	50	25	± 200ppm/°C	CRG0201F82R5	211-6142
86R6	± 1%	50	25	± 200ppm/°C	CRG0201F86R6	211-6143

RoHS ● Compliant ▲ Non-compliant

Resistance	Tolerance	Power	Voltage	Temperature		
90R9	± 1%	50	25	± 200ppm/°C	CRG0201F90R9	211-6144
95R3	± 1%	50	25	± 200ppm/°C	CRG0201F95R3	211-6146
100R	± 1%	50	25	± 200ppm/°C	CRG0201F100R	211-6147
105R	± 1%	50	25	± 200ppm/°C	CRG0201F105R	211-6148
110R	± 1%	50	25	± 200ppm/°C	CRG0201F110R	211-6149
115R	± 1%	50	25	± 200ppm/°C	CRG0201F115R	211-6150
121R	± 1%	50	25	± 200ppm/°C	CRG0201F121R	211-6151
127R	± 1%	50	25	± 200ppm/°C	CRG0201F127R	211-6152
133R	± 1%	50	25	± 200ppm/°C	CRG0201F133R	211-6153
140R	± 1%	50	25	± 200ppm/°C	CRG0201F140R	211-6154
147R	± 1%	50	25	± 200ppm/°C	CRG0201F147R	211-6155
154R	± 1%	50	25	± 200ppm/°C	CRG0201F154R	211-6156
162R	± 1%	50	25	± 200ppm/°C	CRG0201F162R	211-6158
169R	± 1%	50	25	± 200ppm/°C	CRG0201F169R	211-6159
178R	± 1%	50	25	± 200ppm/°C	CRG0201F178R	211-6160
187R	± 1%	50	25	± 200ppm/°C	CRG0201F187R	211-6161
196R	± 1%	50	25	± 200ppm/°C	CRG0201F196R	211-6162
205R	± 1%	50	25	± 200ppm/°C	CRG0201F205R	211-6163
20R5	± 1%	50	25	± 200ppm/°C	CRG0201F215R	211-6164
21R5	± 1%	50	25	± 200ppm/°C	CRG0201F226R	211-6165
226R	± 1%	50	25	± 200ppm/°C	CRG0201F237R	211-6166
249R	± 1%	50	25	± 200ppm/°C	CRG0201F249R	211-6167
261R	± 1%	50	25	± 200ppm/°C	CRG0201F261R	211-6168
274R	± 1%	50	25	± 200ppm/°C	CRG0201F274R	211-6171
287R	± 1%	50	25	± 200ppm/°C	CRG0201F287R	211-6172
301R	± 1%	50	25	± 200ppm/°C	CRG0201F301R	211-6173
316R	± 1%	50	25	± 200ppm/°C	CRG0201F316R	211-6174
332R	± 1%	50	25	± 200ppm/°C	CRG0201F332R	211-6175
348R	± 1%	50	25	± 200ppm/°C	CRG0201F348R	211-6176
365R	± 1%	50	25	± 200ppm/°C	CRG0201F365R	211-6177
383R	± 1%	50	25	± 200ppm/°C	CRG0201F383R	211-6178
402R	± 1%	50	25	± 200ppm/°C	CRG0201F402R	211-6179
422R	± 1%	50	25	± 200ppm/°C	CRG0201F422R	211-6180
442R	± 1%	50	25	± 200ppm/°C	CRG0201F442R	211-6181
464R	± 1%	50	25	± 200ppm/°C	CRG0201F464R	211-6183
487R	± 1%	50	25	± 200ppm/°C	CRG0201F487R	211-6184
511R	± 1%	50	25	± 200ppm/°C	CRG0201F511R	211-6185
536R	± 1%	50	25	± 200ppm/°C	CRG0201F536R	211-6186
562R	± 1%	50	25	± 200ppm/°C	CRG0201F562R	211-6187
590R	± 1%	50	25	± 200ppm/°C	CRG0201F590R	211-6188
619R	± 1%	50	25	± 200ppm/°C	CRG0201F619R	211-6189
649R	± 1%	50	25	± 200ppm/°C	CRG0201F649R	211-6190
681R	± 1%	50	25	± 200ppm/°C	CRG0201F681R	211-6191
715R	± 1%	50	25	± 200ppm/°C	CRG0201F715R	211-6192
750R	± 1%	50	25	± 200ppm/°C	CRG0201F750R	211-6193
787R	± 1%	50	25	± 200ppm/°C	CRG0201F787R	211-6195
825R	± 1%	50	25	± 200ppm/°C	CRG0201F825R	211-6196
866R	± 1%	50	25	± 200ppm/°C	CRG0201F866R	211-6197
909R	± 1%	50	25	± 200ppm/°C	CRG0201F909R	211-6198
953R	± 1%	50	25	± 200ppm/°C	CRG0201F953R	211-6199
1K	± 1%	50	25	± 200ppm/°C	CRG0201F1K0	211-6201
1K05	± 1%	50	25	± 200ppm/°C	CRG0201F1K05	211-6202
1K1	± 1%	50	25	± 200ppm/°C	CRG0201F1K1	211-6203
1K15	± 1%	50	25	± 200ppm/°C	CRG0201F1K15	211-6204
1K21	± 1%	50	25	± 200ppm/°C	CRG0201F1K21	211-6205
1K27	± 1%	50	25	± 200ppm/°C	CRG0201F1K27	211-6206
1K33	± 1%	50	25	± 200ppm/°C	CRG0201F1K33	211-6207
1K4	± 1%	50	25	± 200ppm/°C	CRG0201F1K4	211-6208
1K47	± 1%	50	25	± 200ppm/°C	CRG0201F1K47	211-6209
1K54	± 1%	50	25	± 200ppm/°C	CRG0201F1K54	211-6210
1K62	± 1%	50	25	± 200ppm/°C	CRG0201F1K62	211-6211
1K69	± 1%	50	25	± 200ppm/°C	CRG0201F1K69	211-6213
1K78	± 1%	50	25	± 200ppm/°C	CRG0201F1K78	211-6214
1K87	± 1%	50	25	± 200ppm/°C	CRG0201F1K87	211-6215
1K96	± 1%	50	25	± 200ppm/°C	CRG0201F1K96	211-6216
2K06	± 1%	50	25	± 200ppm/°C	CRG0201F2K05	211-6217
2K15	± 1%	50	25	± 200ppm/°C	CRG0201F2K15	211-6218
2K26	± 1%	50	25	± 200ppm/°C	CRG0201F2K26	211-6219
2K37	± 1%	50	25	± 200ppm/°C	CRG0201F2K37	211-6220
2K49	± 1%	50	25	± 200ppm/°C	CRG0201F2K49	211-6221
2K61	± 1%	50	25	± 200ppm/°C	CRG0201F2K61	211-6222
2K74	± 1%	50	25	± 200ppm/°C	CRG0201F2K74	211-6223
287K	± 1%	50	25	± 200ppm/°C	CRG0201F2K87	211-6225
3K01	± 1%	50	25	± 200ppm/°C	CRG0201F3K01	211-6226
3K16	± 1%	50	25	± 200ppm/°C	CRG0201F3K16	211-6227
3K32	± 1%	50	25	± 200ppm/°C	CRG0201F3K32	211-6228
3K48	± 1%	50	25	± 200ppm/°C	CRG0201F3K48	211-6229
3K65	± 1%	50	25	± 200ppm/°C	CRG0201F3K65	211-6230
3K83	± 1%	50	25	± 200ppm/°C	CRG0201F3K83	211-6231
4K02	± 1%	50	25	± 200ppm/°C	CRG0201F4K02	211-6232
4K22	± 1%	50	25	± 200ppm/°C	CRG0201F4K22	211-6233
4K42	± 1%	50	25	± 200ppm/°C	CRG0201F4K42	211-6234
4K64	± 1%	50	25	± 200ppm/°C	CRG0201F4K64	211-6235
4K87	± 1%	50	25	± 200ppm/°C	CRG0201F4K87	211-6237
5K11	± 1%	50	25	± 200ppm/°C	CRG0201F5K11	211-6238
5K36	± 1%	50	25	± 200ppm/°C	CRG0201F5K36	211-6239
5K62	± 1%	50	25	± 200ppm/°C	CRG0201F5K62	211-6240
5K9	± 1%	50	25	± 200ppm/°C	CRG0201F5K9	211-6241
6K19	± 1%	50	25	± 200ppm/°C	CRG0201F6K19	211-6242
6K49	± 1%	50	25	± 200ppm/°C	CRG0201F6K49	211-6243
6K81	± 1%	50	25	± 200ppm/°C	CRG0201F6K81	211-6244
7K15	± 1%	50	25	± 200ppm/°C	CRG0201F7K15	211-6245
7K5	± 1%	50	25	± 200ppm/°C	CRG0201F7K5	211-6246
7K87	± 1%	50	25	± 200ppm/°C	CRG0201F7K87	211-6247
8K25	± 1%	50	25	± 200ppm/°C	CRG0201F8K25	211-6249
8K66	± 1%	50	25	± 200ppm/°C	CRG0201F8K66	211-6251
9K09	± 1%	50	25	± 200ppm/°C	CRG0201F9K09	211-6252
9K53	± 1%	50	25	± 200ppm/°C	CRG0201F9K53	211-6253
10K	± 1%	50	25	± 200ppm/°C	CRG0201F10K	211-6254
10K5	± 1%	50	25	± 200ppm/°C	CRG0201F10K5	211-6255
11K	± 1%	50	25	± 200ppm/°C	CRG0201F11K	211-6256
11K5	± 1%	50	25	± 200ppm/°C	CRG0201F11K5	211-6257
12K1	± 1%	50	25	± 200ppm/°C	CRG0201F12K1	211-6258
12K7	± 1%	50	25	± 200ppm/°C	CRG0201F12K7	211-6259
13K3	± 1%	50	25	± 200ppm/°C	CRG0201F13K3	211-6260
14K	± 1%	50	25	± 200ppm/°C	CRG0201F14K	211-6262
14K7	± 1%	50	25	± 200ppm/°C	CRG0201F14K7	211-6263

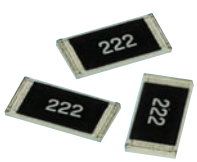
Resistance	Tolerance	Power	Voltage	Temperature		
15K4	± 1%	50	25	± 200ppm/°C	CRG0201F15K4	211-6264
16K2	± 1%	50	25	± 200ppm/°C	CRG0201F16K2	211-6265
16K9	± 1%	50	25	± 200ppm/°C	CRG0201F16K9	211-6266
17K8	± 1%	50	25	± 200ppm/°C	CRG0201F17K8	211-6267
18K7	± 1%	50	25	± 200ppm/°C	CRG0201F18K7	211-6268
19K6	± 1%	50	25	± 200ppm/°C	CRG0201F19K6	211-6269
20K5	± 1%	50	25	± 200ppm/°C	CRG0201F20K5	211-6270
21K5	± 1%	50	25	± 200ppm/°C	CRG0201F21K5	211-6271
22K6	± 1%	50	25	± 200ppm/°C	CRG0201F22K6	211-6272
23K7	± 1%	50	25	± 200ppm/°C	CRG0201F23K7	211-6274
24K9	± 1%	50	25	± 200ppm/°C	CRG0201F24K9	211-6275
26K1	± 1%	50	25	± 200ppm/°C	CRG0201F26K1	211-6276
27K4	± 1%	50	25	± 200ppm/°C	CRG0201F27K4	211-6277
28K7	± 1%	50	25	± 200ppm/°C	CRG0201F28K7	211-6278
30K1	± 1%	50	25	± 200ppm/°C	CRG0201F30K1	211-6279
31K6	± 1%	50	25	± 200ppm/°C	CRG0201F31K6	211-6280
33K2	± 1%	50	25	± 200ppm/°C	CRG0201F33K2	211-6281
34K8	± 1%	50	25	± 200ppm/°C	CRG0201F34K8	211-6282
36K5	± 1%	50	25	± 200ppm/°C	CRG0201F36K5	211-6283
38K3	± 1%	50	25	± 200ppm/°C	CRG0201F38K3	211-6284
40K2	± 1%	50	25	± 200ppm/°C	CRG0201F40K2	211-6286
42K2	± 1%	50	25	± 200ppm/°C	CRG0201F42K2	211-6287
44K2	± 1%	50	25	± 200ppm/°C	CRG0201F44K2	211-6288
46K4	± 1%	50	25	± 200ppm/°C	CRG0201F46K4	211-6289
48K7	± 1%	50	25	± 200ppm/°C	CRG0201F48K7	211-6290
51K1	± 1%	50	25	± 200ppm/°C	CRG0201F51K1	211-6291
53K6	± 1%	50	25	± 200ppm/°C	CRG0201F53K6	211-6292
56K2	± 1%	50	25	± 200ppm/°C	CRG0201F56K2	211-6293
59K	± 1%	50	25	± 200ppm/°C	CRG0201F59K	211-6294
51K9	± 1%	50	25	± 200ppm/°C	CRG0201F61K9	211-6295
64K9	± 1%	50	25	± 200ppm/°C	CRG0201F64K9	211-6296
68K1	± 1%	50	25	± 200ppm/°C	CRG0201F68K1	211-6298
71K5	± 1%	50	25	± 200ppm/°C	CRG0201F71K5	211-6299
5K	± 1%	50	25	± 200ppm/°C	CRG0201F75K	211-6300
78K7	± 1%	50	25	± 200ppm/°C	CRG0201F78K7	211-6301
52K5	± 1%	50	25	± 200ppm/°C	CRG0201F82K5	211-6302
56K6	± 1%	50	25	± 200ppm/°C	CRG0201F86K6	211-6304
90K9	± 1%	50	25	± 200ppm/°C	CRG0201F90K9	211-6305
95K3	± 1%	50	25	± 200ppm/°C	CRG0201F95K3	211-6306
100K	± 1%	50	25	± 200ppm/°C	CRG0201F100K	211-6307
105K	± 1%	50	25	± 200ppm/°C	CRG0201F105K	211-6308
110K	± 1%	50	25	± 200ppm/°C	CRG0201F110K	211-6309
115K	± 1%	50	25	± 200ppm/°C	CRG0201F115K	211-6310
121K	± 1%	50	25	± 200ppm/°C	CRG0201F121K	211-6311
127K	± 1%	50	25	± 200ppm/°C	CRG0201F127K	211-6312
133K	± 1%	50	25	± 200ppm/°C	CRG0201F133K	211-6313
140K	± 1%	50	25	± 200ppm/°C	CRG0201F140K	211-6314
147K	± 1%	50	25	± 200ppm/°C	CRG0201F147K	211-6316
154K	± 1%	50	25	± 200ppm/°C	CRG0201F154K	211-6317
162K	± 1%	50	25	± 200ppm/°C	CRG0201F162K	211-6318
169K	± 1%	50	25	± 200ppm/°C	CRG0201F169K	211-6319
178K	± 1%	50	25	± 200ppm/°C	CRG0201F178K	211-6320
187K	± 1%	50	25	± 200ppm/°C	CRG0201F187K	211-6321
196K	± 1%	50	25	± 200ppm/°C	CRG0201F196K	211-6322
205K	± 1%	50	25	± 200ppm/°C	CRG0201F205K	211-6323
215K	± 1%	50	25	± 200ppm/°C	CRG0201F215K	211-6324
226K	± 1%	50	25	± 200ppm/°C	CRG0201F226K	211-6325
237K	± 1%	50	25	± 200ppm/°C	CRG0201F237K	211-6326
249K	± 1%	50	25	± 200ppm/°C	CRG0201F249K	211-6328
261K	± 1%	50	25	± 200ppm/°C	CRG0201F261K	211-6329
274K	± 1%	50	25	± 200ppm/°C	CRG0201F274K	211-6330
287K	± 1%	50	25	± 200ppm/°C	CRG0201F287K	211-6331
301K	± 1%	50	25	± 200ppm/°C	CRG0201F301K	211-6332
316K	± 1%	50	25	± 200ppm/°C	CRG0201F316K	211-6333
332K	± 1%	50	25	± 200ppm/°C	CRG0201F332K	211-6334
348K	± 1%	50	25	± 200ppm/°C	CRG0201F348K	211-6335
365K	± 1%	50	25	± 200ppm/°C	CRG0201F365K	211-6336
383K	± 1%	50	25	± 200ppm/°C	CRG0201F383K	211-6337
402K	± 1%	50	25	± 200ppm/°C	CRG0201F402K	211-6338
422K	± 1%	50	25	± 200ppm/°C	CRG0201F422K	211-6341
442K	± 1%	50	25	± 200ppm/°C	CRG0201F442K	211-6342
465K	± 1%	50	25	± 200ppm/°C	CRG0201F464K	211-6343
487K	± 1%	50	25	± 200ppm/°C	CRG0201F487K	211-6344
511K	± 1%	50	25	± 200ppm/°C	CRG0201F511K	211-6345
536K	± 1%	50	25	± 200ppm/°C	CRG0201F536K	211-6346
562K	± 1%	50	25	± 200ppm/°C	CRG0201F562K	211-6347
590K	± 1%	50	25	± 200ppm/°C	CRG0201F590K	211-6348
619K	± 1%	50	25	± 200ppm/°C	CRG0201F619K	211-6349
549K	± 1%	50	25	± 200ppm/°C	CRG0201F649K	211-6350
681K	± 1%	50	25	± 200ppm/°C	CRG0201F681K	211-6351
715K	± 1%	50	25	± 200ppm/°C	CRG0201F715K	211-6353
750K	± 1%	50	25	± 200ppm/°C	CRG0201F750K	211-6354
787K	± 1%	50	25	± 200ppm/°C	CRG0201F787K	211-6355
825K	± 1%	50	25	± 200ppm/°C	CRG0201F825K	211-6356
566K	± 1%	50	25	± 200ppm/°C	CRG0201F866K	211-6357
909K	± 1%	50	25	± 200ppm/°C	CRG0201F909K	211-6358
953K	± 1%	50	25	± 200ppm/°C	CRG0201F953K	211-6359
1M	± 1%	50	25	± 200ppm/°C	CRG0201F1M0	211-6360

660811

Order Code	Price Each 50+	250+	500+	1K+	2K+
All Values					

3250 Series - 1 Watt 5%

Tyco Electronics



L=6.4 W=3.1 H=0.55

- Surface mount power resistor
- 1 Watt at 70°C
- Small low profile (2512) size to power ratio

Power rating @ 70°C	1W
Temperature Coefficient	±350ppm/°C
Resistance tolerance	±5%
Voltage rating	200V a.c./d.c.
Operating temperature	-55°C to + 125°C

3250 Series - 1 Watt 5% - continued

Stocked in the following OHMIC values: - continued

Stocked in the following OHMIC values:

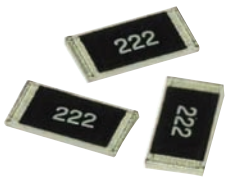
1R = **126-5178**	10R = **126-5166**	68R = **126-5224**	470R = **126-5207**	33K = **126-5197**
1R2 = **126-5181**	12R = **126-5169**	82R = **126-5226**	560R = **126-5216**	47K = **126-5211**
1R5 = **126-5182**	15R = **126-5173**	100R = **126-5164**	680R = **126-5221**	68K = **126-5223**
1R8 = **126-5183**	18R = **126-5175**	120R = **126-5168**	1K = **126-5176**	100K = **126-5163**
2R2 = **126-5193**	22R = **126-5187**	150R = **126-5171**	2K2 = **126-5190**	150K = **126-5170**
2R7 = **126-5194**	27R = **126-5189**	180R = **126-5174**	3K3 = **126-5202**	220K = **126-5184**
3R3 = **126-5203**	33R = **126-5198**	220R = **126-5185**	4K7 = **126-5213**	330K = **126-5195**
3R9 = **126-5205**	39R = **126-5201**	270R = **126-5188**	10K = **126-5165**	470K = **126-5206**
4R7 = **126-5215**	47R = **126-5212**	330R = **126-5196**	15K = **126-5172**	680K = **126-5220**
5R6 = **126-5219**	56R = **126-5217**	390R = **126-5200**	22K = **126-5186**	1M = **126-5177**
6R8 = **126-5225**				

451275

Order Code	Price Each 10+	100+	1K+	4K+
All Values ●				

3521 Series

Tyco Electronics



This high power device is suitable for auto placement in volume, and for most applications, including high frequency operations, owing to the short lead structure.

NEW

SMD

Features
- 2 Watts at 70°C
- Small Size to Power Ratio
- Supplied on Tape
- Value Marked on Resistor
- 500 Volt Maximum Overload
- 250 Volt Working Voltage
- Low Profile
- Terminal Finish - Matte Sn over Ni
- MSL Level 2
- 0.5% Tolerance
- Temperature Coefficient of± 200ppm for values below 10Ω
- Temperature Coefficient of ± 100ppm for values 10Ω to 1MΩ

Power Rating 2W — Voltage Rating 250V — Resistance Tolerance ± 1%

Resistance ohm	Order Code	Resistance		Resistance		Resistance	
		180R	211-7483	3K6	211-7518	62K	211-7552
10R	211-7450	200R	211-7485	3K9	211-7519	68K	211-7553
11R	211-7451	220R	211-7486	4K3	211-7520	75K	211-7554
12R	211-7452	240R	211-7487	4K7	211-7521	82K	211-7555
13R	211-7453	270R	211-7488	5K1	211-7522	91K	211-7556
15R	211-7454	300R	211-7489	5K6	211-7523	100K	211-7557
16R	211-7455	330R	211-7490	6K2	211-7524	110K	211-7558
18R	211-7456	360R	211-7491	6K8	211-7525	120K	211-7559
20R	211-7457	390R	211-7492	7K5	211-7527	130K	211-7560
22R	211-7458	430R	211-7493	8K2	211-7528	150K	211-7561
24R	211-7461	470R	211-7494	9K1	211-7529	160K	211-7562
27R	211-7462	510R	211-7495	10K	211-7530	180K	211-7564
30R	211-7463	560R	211-7497	11K	211-7531	200K	211-7565
33R	211-7464	620R	211-7498	12K	211-7532	220K	211-7566
36R	211-7465	680R	211-7499	13K	211-7533	240K	211-7567
39R	211-7466	750R	211-7500	15K	211-7534	270K	211-7568
43R	211-7467	820R	211-7501	16K	211-7535	300K	211-7569
47R	211-7468	910R	211-7503	18K	211-7536	330K	211-7570
51R	211-7469	1K	211-7504	20K	211-7537	360K	211-7571
56R	211-7470	1K1	211-7505	22K	211-7539	390K	211-7572
62R	211-7471	1K2	211-7506	24K	211-7541	430K	211-7573
68R	211-7473	1K3	211-7507	27K	211-7542	470K	211-7574
75R	211-7474	1K5	211-7508	30K	211-7543	510K	211-7576
82R	211-7475	1K6	211-7509	33K	211-7544	560K	211-7577
91R	211-7476	1K8	211-7510	36K	211-7545	620K	211-7578
100R	211-7477	2K	211-7511	39K	211-7546	680K	211-7579
110R	211-7478	2K2	211-7512	43K	211-7547	750K	211-7580
120R	211-7479	2K4	211-7513	47K	211-7548	820K	211-7581
130R	211-7480	2K7	211-7515	51K	211-7549	910K	211-7582
150R	211-7481	3K	211-7516	56K	211-7550	1M	211-7583
160R	211-7482	3K3	211-7517				

660485

Order Code	Price Each 5+	50+	250+	1K+	5K+
All Values					

TE RL73 Series

Tyco Electronics

This thick film chip resistor for current sensing positions. It has a special metal glaze resistive element and a nickel barrier layer beneath the solder to prolong terminal life. Following the developments by semiconductor manufacturers in the production of a range of IC's for battery charge management and low voltage power supplies, the RL73 Series satisfies the demand for a low ohmic shunt resistor to act as a current sensor

NEW

SMD

Features
- Up to 2 Watts at 70°C
- Values down to R10
- Tolerance 5%
- Ideal for current detection
- Value marked on resistor

660488

Resistance	Temperature Cofficient	Mfftrs list no	Order Code	Price Each 20+	200+	1K+	2K5+
0402, 0.125W							
0R056	± 400ppm/°C	RLP73M1ER056JTD	211-6361●				
0R056	± 400ppm/°C	RLP73M1ER056JTD	211-6361●				
0R068	± 400ppm/°C	RLP73M1ER068JTD	211-6362●				
0R082	± 400ppm/°C	RLP73M1ER082JTD	211-6363●				
0R1	± 300ppm/°C	RLP73N1ER10JTD	211-6365●				
0R12	± 300ppm/°C	RLP73N1ER12JTD	211-6366●				
0R15	± 300ppm/°C	RLP73N1ER15JTD	211-6367●				
0R18	± 300ppm/°C	RLP73N1ER18JTD	211-6368●				
0R22	± 300ppm/°C	RLP73N1ER22JTD	211-6369●				
0R27	± 300ppm/°C	RLP73N1ER27JTD	211-6370●				
0R33	± 300ppm/°C	RLP73N1ER33JTD	211-6371●				
0R39	± 300ppm/°C	RLP73N1ER39JTD	211-6372●				
0R47	± 300ppm/°C	RLP73N1ER47JTD	211-6373●				
0R56	± 200ppm/°C	RLP73K1ER56JTD	211-6374●				
0R68	± 200ppm/°C	RLP73K1ER68JTD	211-6375●				
0R82	± 200ppm/°C	RLP73K1ER82JTD	211-6377●				
0603, 0.125W							
0R056	± 400ppm/°C	RLP73M1JR056JTD	211-6378●				
0R068	± 400ppm/°C	RLP73M1JR068JTD	211-6379●				
0R082	± 400ppm/°C	RLP73M1JR082JTD	211-6380●				
0R1	± 300ppm/°C	RLP73N1JR10JTD	211-6381●				
0R12	± 300ppm/°C	RLP73N1JR12JTD	211-6382●				
0R15	± 300ppm/°C	RLP73N1JR15JTD	211-6383●				
0R18	± 300ppm/°C	RLP73N1JR18JTD	211-6384●				
0R22	± 300ppm/°C	RLP73N1JR22JTD	211-6385●				
0R27	± 300ppm/°C	RLP73N1JR27JTD	211-6386●				
0R33	± 300ppm/°C	RLP73N1JR33JTD	211-6387●				
0R39	± 300ppm/°C	RLP73N1JR39JTD	211-6389●				
0R47	± 300ppm/°C	RLP73N1JR47JTD	211-6391●				
0R56	± 200ppm/°C	RLP73K1JR56JTD	211-6392●				
0R68	± 200ppm/°C	RLP73K1JR68JTD	211-6393●				
0R82	± 200ppm/°C	RLP73K1JR82JTD	211-6394●				
0805, 0.25W							
0R056	± 400ppm/°C	RLP73M2AR056JTD	211-6395●				
0R068	± 400ppm/°C	RLP73M2AR068JTD	211-6396●				
0R082	± 400ppm/°C	RLP73M2AR082JTD	211-6397●				
0R1	± 300ppm/°C	RLP73N2AR10JTD	211-6398●				
0R12	± 300ppm/°C	RLP73N2AR12JTD	211-6399●				
0R15	± 300ppm/°C	RLP73N2AR15JTD	211-6400●				
0R18	± 300ppm/°C	RLP73N2AR18JTD	211-6401●				
0R22	± 300ppm/°C	RLP73N2AR22JTD	211-6402●				
0R27	± 300ppm/°C	RLP73N2AR27JTD	211-6403●				
0R33	± 300ppm/°C	RLP73N2AR33JTD	211-6404●				
0R39	± 300ppm/°C	RLP73N2AR39JTD	211-6405●				
0R47	± 300ppm/°C	RLP73N2AR47JTD	211-6407●				
0R56	± 200ppm/°C	RLP73K2AR56JTD	211-6408●				
0R68	± 200ppm/°C	RLP73K2AR68JTD	211-6409●				
0R82	± 200ppm/°C	RLP73K2AR82JTD	211-6410●				
1206, 0.5W							
0R01	± 600ppm/°C	RLP73V2BR010JTD	211-6411●				
0R012	± 600ppm/°C	RLP73V2BR012JTD	211-6412●				
0R015	± 600ppm/°C	RLP73V2BR015JTD	211-6413●				
0R018	± 600ppm/°C	RLP73V2BR018JTD	211-6414●				
0R022	± 400ppm/°C	RLP73M2BR022JTD	211-6415●				
0R027	± 400ppm/°C	RLP73M2BR027JTD	211-6416●				
0R033	± 400ppm/°C	RLP73M2BR033JTD	211-6417●				
0R039	± 400ppm/°C	RLP73M2BR039JTD	211-6419●				
0R047	± 400ppm/°C	RLP73M2BR047JTD	211-6421●				
0R056	± 300ppm/°C	RLP73N2BR056JTD	211-6422●				
0R068	± 300ppm/°C	RLP73N2BR068JTD	211-6423●				
0R082	± 300ppm/°C	RLP73N2BR082JTD	211-6424●				
0R1	± 200ppm/°C	RLP73K2BR10JTD	211-6425●				
0R12	± 200ppm/°C	RLP73K2BR12JTD	211-6426●				
0R15	± 200ppm/°C	RLP73K2BR15JTD	211-6427●				
0R18	± 200ppm/°C	RLP73K2BR18JTD	211-6428●				
0R22	± 200ppm/°C	RLP73K2BR22JTD	211-6429●				
0R27	± 200ppm/°C	RLP73K2BR27JTD	211-6430●				
0R33	± 200ppm/°C	RLP73K2BR33JTD	211-6432●				
0R39	± 200ppm/°C	RLP73K2BR39JTD	211-6433●				
0R47	± 200ppm/°C	RLP73K2BR47JTD	211-6434●				
0R56	± 200ppm/°C	RLP73K2BR56JTD	211-6435●				
0R68	± 200ppm/°C	RLP73K2BR68JTD	211-6436●				
0R82	± 200ppm/°C	RLP73K2BR82JTD	211-6437●				
2512, 2W							
0R01	± 600ppm/°C	RLP73V3AR010JTE	211-6438●				
0R012	± 600ppm/°C	RLP73V3AR012JTE	211-6439●				
0R015	± 600ppm/°C	RLP73V3AR015JTE	211-6440●				
0R018	± 600ppm/°C	RLP73V3AR018JTE	211-6441●				
0R022	± 400ppm/°C	RLP73M3AR022JTE	211-6442●				
0R027	± 400ppm/°C	RLP73M3AR027JTE	211-6444●				

RoHS ● Compliant ▲ Non-compliant

2512, 2W			
0R033	± 400ppm/°C	RLP73M3AR033JTE	211-6445●
0R039	± 400ppm/°C	RLP73M3AR039JTE	211-6446●
0R047	± 400ppm/°C	RLP73M3AR047JTE	211-6447●
0R056	± 300ppm/°C	RLP73N3AR056JTE	211-6448●
0R068	± 300ppm/°C	RLP73N3AR068JTE	211-6449●
0R082	± 300ppm/°C	RLP73N3AR082JTE	211-6450●
0R1	± 200ppm/°C	RLP73K3AR10JTE	211-6451●
0R12	± 200ppm/°C	RLP73K3AR12JTE	211-6452●
0R15	± 200ppm/°C	RLP73K3AR15JTE	211-6453●
0R18	± 200ppm/°C	RLP73K3AR18JTE	211-6454●
0R22	± 200ppm/°C	RLP73K3AR22JTE	211-6456●
0R27	± 200ppm/°C	RLP73K3AR27JTE	211-6457●
0R33	± 200ppm/°C	RLP73K3AR33JTE	211-6458●
0R39	± 200ppm/°C	RLP73K3AR39JTE	211-6459●
0R47	± 200ppm/°C	RLP73K3AR47JTE	211-6460●
0R56	± 200ppm/°C	RLP73K3AR56JTE	211-6461●
0R68	± 200ppm/°C	RLP73K3AR68JTE	211-6462●
0R82	± 200ppm/°C	RLP73K3AR82JTE	211-6463●

Thin Film Chip

P Series

High Precision Chip Resistor

- Wide resistance range
- Very low noise
- SMD wraparound terminations

	0603 Case Size	0805 Case Size	1206 Case Size
Power rating @ 70°C	125mW	200mW	330mW
Voltage rating	75V	150V	330V

0603 Case ±5ppm, ±0.05%

Stocked in the following OHMIC Values:

1K = **179-0995** 2K = **179-0996** 10K = **179-0998** 100K = **179-0999**

Order Code	Price Each 1+	20+	50+	100+
All Values ●				

0603 Case ±10ppm, ±0.1%

Stocked in the following OHMIC Values:

1K = **179-1010** 2K = **179-1012** 10K = **179-1013** 100K = **179-1014**

Order Code	Price Each 1+	20+	50+	100+
All Values ●				

0603 Case ±25ppm, ±0.1%

Stocked in the following OHMIC Values:

1K69 = **186-6729** 10K = **186-6730** 26K1 = **186-6733** 100K = **186-6731**

Order Code	Price Each 1+	20+	50+	100+
NEW All Values ●				

0603 Case ±25ppm, ±1%

Stocked in the following OHMIC Values:

5K76 = **186-6735** 124K = **186-6732**

Order Code	Price Each 1+	20+	50+	100+
NEW All Values ●				

0805 Case ±5ppm, ±0.05%

Stocked in the following OHMIC Values:

1K = **179-1001** 2K = **179-1002** 10K = **179-1003** 100K = **179-1004**

Order Code	Price Each 1+	20+	50+	100+
All Values ●				

0805 Case ±10ppm, ±0.1%

Stocked in the following OHMIC Values:

1K = **179-1015** 2K = **179-1016** 39K2 = **186-6737** 100K = **179-1018**
1K1 = **186-6736** 10K = **179-1017**

Order Code	Price Each 1+	20+	50+	100+
All Values ●				

1206 Case ±5ppm, ±0.05%

Stocked in the following OHMIC Values:

1K = **179-1005** 20K = **179-1007** 100K = **179-1008** 1M = **179-1009**
10K = **179-1006**

Order Code	Price Each 1+	20+	50+	100+
All Values ●				

1206 Case ±10ppm, ±0.1%

Stocked in the following OHMIC Values:

1K = **179-1019** 20K = **179-1021** 100K = **179-1022** 1M = **179-1024**
10K = **179-1020**

603559

Order Code	Price Each 1+	20+	50+	100+
All Values ●				

PNM Series

High Precision Thin Film Resistor

- SMD wraparound terminations
- Wide resistance range
- Very low noise
- Non-magnetic

NEW

	0603 Case Size	0805 Case Size	1206 Case Size
Power rating @ 70°C	150mW	200mW	400mW
Voltage rating	75V	100V	200V

0603 Case ±25ppm, ±0.1%

Stocked in the following OHMIC Values:

1K = **185-7212** 5K = **185-7214** 20K = **185-7217** 50K = **185-7219**
2K = **185-7213** 10K = **185-7215** 25K = **185-7218**

Order Code	Price Each 1+	20+	50+	100+	+
All Values ●					

0805 Case ±25ppm, ±0.1%

Stocked in the following OHMIC Values:

1K = **185-7220** 5K = **185-7222** 20K = **185-7224** 50K = **185-7226**
2K = **185-7221** 10K = **185-7223** 25K = **185-7225** 100K = **185-7227**

Order Code	Price Each 1+	20+	50+	100+	+
All Values ●					

1206 Case ±25ppm, ±0.1%

Stocked in the following OHMIC Values:

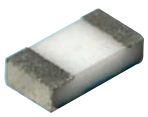
1K = **185-7229** 10K = **185-7233** 25K = **185-7235** 100K = **185-7237**
2K = **185-7231** 20K = **185-7234** 50K = **185-7236** 1M = **185-7238**
5K = **185-7232**

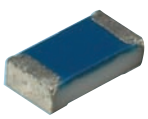
618957

Order Code	Price Each 1+	20+	50+	100+	+
All Values ●					

Precision Automotive Thin Film Chip Resistors

Series: PAT





- Wide resistance range
- Very low noise
- SMD wraparound terminations

NEW

	0603 Case Size	0805 Case Size	1206 Case Size
Power Rating	150mW	200mW	400mW
Voltage Rating	75V	100V	200V
Length	1.62 mm	2.03 mm	3.2 mm
Width	0.81mm	1.27 mm	1.60 mm
Depth	0.30 mm	0.38 mm	0.63 mm
Thickness	0.38 mm	0.38 mm	0.38 mm

0603 Case Size ± 25ppm/°C, ± 0.1%

Stocked in the Following OHMIC Values

50R5 = **185-8097** 2K = **185-8108** 4K02 = **185-8118** 8K25 = **185-8127** 24K9 = **185-8137**
150R = **185-8098** 2K2 = **185-8109** 4K3 = **185-8119** 9K09 = **185-8128** 30K = **185-8138**
200R = **185-8100** 2K21 = **185-8110** 4K7 = **185-8120** 10K = **185-8131** 33K = **185-8139**
365R = **185-8101** 2K4 = **185-8111** 4K99 = **185-8121** 12K = **185-8132** 36K1 = **185-8140**
499R = **185-8102** 2K49 = **185-8112** 5K6 = **185-8122** 12K4 = **185-8133** 47K = **185-8141**
681R = **185-8103** 2K7 = **185-8113** 6K49 = **185-8123** 13K = **185-8134** 49K9 = **185-8143**
1K = **185-8104** 3K01 = **185-8114** 6K8 = **185-8124** 15K = **185-8135** 56K2 = **185-8144**
1K1 = **185-8106** 3K24 = **185-8115** 7K15 = **185-8125** 20K = **185-8136** 75K = **185-8145**
1K5 = **185-8107** 3K3 = **185-8116** 7K5 = **185-8126**

Order Code	Price Each 1+	25+	50+	100+	500+
All Values●					

0805 Case Size ± 25ppm/°C, ± 0.1%

Stocked in the Following OHMIC Values

50R5 = **185-8146** 2K21 = **185-8158** 5K6 = **185-8170** 15K = **185-8183** 84K5 = **185-8195**
150R = **185-8147** 2K4 = **185-8159** 6K49 = **185-8171** 20K = **185-8184** 90K9 = **185-8196**
200R = **185-8148** 2K49 = **185-8160** 6K8 = **185-8172** 24K9 = **185-8185** 100K = **185-8197**
365R = **185-8149** 2K7 = **185-8161** 7K15 = **185-8173** 30K = **185-8186** 110K = **185-8198**
499R = **185-8150** 3K01 = **185-8162** 7K5 = **185-8174** 33K = **185-8187** 124K = **185-8199**
681R = **185-8151** 3K24 = **185-8163** 8K25 = **185-8175** 36K1 = **185-8188** 174K = **185-8200**
1K = **185-8152** 3K3 = **185-8164** 9K09 = **185-8176** 47K = **185-8189** 180K = **185-8201**
1K1 = **185-8153** 4K02 = **185-8165** 10K = **185-8177** 49K9 = **185-8190** 200K = **185-8202**
1K5 = **185-8155** 4K3 = **185-8167** 12K = **185-8179** 56K2 = **185-8192** 249K = **185-8203**
2K = **185-8156** 4K7 = **185-8168** 12K4 = **185-8181** 75K = **185-8193** 301K = **185-8204**
2K2 = **185-8157** 4K99 = **185-8169** 13K = **185-8182** 80K6 = **185-8194**

Order Code	Price Each 1+	25+	50+	100+	500+
All Values ●					

Precision Automotive Thin Film Chip Resistors - continued

Series: PAT - continued

1206 Case Size ± 25ppm/°C, ± 0.1%

Stocked in the Following OHMIC Values

50R5 = **185-8205**	2K49 = **185-8220**	7K5 = **185-8235**	36K1 = **185-8248**	180K = **185-8261**
150R = **185-8206**	2K7 = **185-8222**	8K25 = **185-8236**	47K = **185-8249**	200K = **185-8262**
200R = **185-8207**	3K1 = **185-8223**	9K09 = **185-8237**	49K9 = **185-8250**	249K = **185-8263**
365R = **185-8209**	3K24 = **185-8224**	10K = **185-8238**	56K2 = **185-8251**	301K = **185-8264**
499R = **185-8211**	3K3 = **185-8225**	12K = **185-8239**	75K = **185-8252**	324K = **185-8265**
681R = **185-8212**	4K02 = **185-8226**	12K4 = **185-8240**	80K6 = **185-8253**	352K = **185-8266**
1K = **185-8213**	4K3 = **185-8227**	13K = **185-8241**	84K5 = **185-8254**	402K = **185-8267**
1K1 = **185-8214**	4K7 = **185-8228**	15K = **185-8242**	90K9 = **185-8255**	453K = **185-8268**
1K5 = **185-8215**	4K99 = **185-8229**	20K = **185-8243**	100K = **185-8256**	499K = **185-8271**
2K = **185-8216**	5K6 = **185-8230**	24K9 = **185-8244**	110K = **185-8258**	604K = **185-8272**
2K2 = **185-8217**	6K49 = **185-8231**	30K = **185-8246**	124K = **185-8259**	750K = **185-8273**
2K21 = **185-8218**	6K8 = **185-8232**	33K = **185-8247**	174K = **185-8260**	1M = **185-8274**
2K4 = **185-8219**	7K15 = **185-8234**			

619532

	Price Each				
Order Code	1+	25+	50+	100+	500+
All Values●					

High Precision Thin Film Chip Resistor

PHT Series

- Wide resistance range
- Very low noise
- SMD wraparound terminations

NEW

	0603 Case Size	0805 Case Size	1206 Case Size	2010 Case Size
Power rating @ 70°C	12.5mW	20mW	33mW	100mW
Voltage rating	75V	150V	200V	300V

0603 Case ±50ppm, ±0.1%

Stocked in the following OHMIC Values:

10R = **185-0302**	1K = **185-0304**	100K = **185-0306**	300K = **185-0307**
100R = **185-0303**	10K = **185-0305**		

	Price Each				
Order Code	1+	20+	50+	100+	+
All Values ●					

0805 Case ±25ppm, ±0.1%

Stocked in the following OHMIC Values:

10R = **185-0308**	1K = **185-0310**	100K = **185-0312**	500K = **185-0314**
100R = **185-0309**	10K = **185-0311**		

	Price Each				
Order Code	1+	20+	50+	100+	+
All Values ●					

1206 Case ±25ppm, ±0.1%

Stocked in the following OHMIC Values:

10R = **185-0315**	1K = **185-0317**	100K = **185-0319**	1M = **185-0320**
100R = **185-0316**	10K = **185-0318**		

	Price Each				
Order Code	1+	20+	50+	100+	+
All Values ●					

2010 Case ±25ppm, ±0.1%

Stocked in the following OHMIC Values:

10R = **185-0321**	1K = **185-0323**	100K = **185-0326**	3M = **185-0327**
100R = **185-0322**	10K = **185-0324**		

618884

	Price Each				
Order Code	1+	20+	50+	100+	+
All Values ●					

ERA Series

± 10ppm/°C, ± 0.05% tolerance

- Extremely tight tolerance
- High reliability
- Suitable for both reflow and flow soldering
- AECQ-200 Automotive Approved

	0603 Case Size	0805 Case Size
Power rating @ 70°C	100mW	100mW
Voltage rating	75V	75V
Resistance tolerance	± 0.05%	± 0.05%
Temperature coefficient	± 10ppm/°C	± 10ppm/°C

ERA3ARW - 0603 Case Size

Stocked in the following OHMIC Values:

1K = **168-8459**	2K7 = **168-8464**	6K8 = **168-8470**	18K = **168-8475**	47K = **168-8482**
1K2 = **168-8460**	3K3 = **168-8465**	8K2 = **168-8471**	22K = **168-8476**	56K = **168-8483**
1K5 = **168-8461**	3K9 = **168-8466**	10K = **168-8472**	27K = **168-8477**	68K = **168-8484**
1K8 = **168-8462**	4K7 = **168-8468**	12K = **168-8473**	33K = **168-8478**	82K = **168-8485**
2K2 = **168-8463**	5K6 = **168-8469**	15K = **168-8474**	39K = **168-8481**	100K = **168-8486**

	Price Each				
Order Code	1+	10+	100+	500+	1K+
All Values ●					

ERA6ARW - 0805 Case Size

Stocked in the following OHMIC Values:

1K = **168-8491**	2K7 = **168-8497**	6K8 = **168-8502**	18K = **168-8507**	47K = **168-8514**
1K2 = **168-8493**	3K3 = **168-8498**	8K2 = **168-8503**	22K = **168-8508**	56K = **168-8515**
1K5 = **168-8494**	3K9 = **168-8499**	10K = **168-8504**	27K = **168-8511**	68K = **168-8516**
1K8 = **168-8495**	4K7 = **168-8500**	12K = **168-8505**	33K = **168-8512**	82K = **168-8517**
2K2 = **168-8496**	5K6 = **168-8501**	15K = **168-8506**	39K = **168-8513**	100K = **168-8518**

528758

	Price Each				
Order Code	1+	10+	100+	500+	1K+
All Values ●					

ERA Series

± 10ppm/°C, ± 0.1% tolerance

- High reliability - Stable at high temperature and humidity
- High accuracy - Small resistance tolerance and Temperature Coefficient of Resistance
- High performance - Low current noise, excellent non-linearity
- AECQ-200 Automotive Approved

Series	Case Style	Power Rating	Tolerance	Temperature Coefficient	Temperature Range
ERA3	0603	100mW	± 0.1%	± 10ppm/°C	-55°C to +155°C
ERA6	0805	125mW	± 0.1%	± 10ppm/°C	-55°C to +155°C

0603 Case Size

Stocked in the following OHMIC Values:

1K = **171-7570**	2K7 = **171-7581**	6K8 = **171-7592**	18K = **171-7604**	47K = **171-7615**
1K1 = **171-7572**	3K = **171-7582**	7K5 = **171-7593**	20K = **171-7605**	51K = **171-7616**
1K2 = **171-7573**	3K3 = **171-7584**	8K2 = **171-7594**	22K = **171-7606**	56K = **171-7617**
1K3 = **171-7574**	3K6 = **171-7585**	9K1 = **171-7596**	24K = **171-7607**	62K = **171-7618**
1K5 = **171-7575**	3K9 = **171-7586**	10K = **171-7597**	27K = **171-7608**	68K = **171-7619**
1K6 = **171-7576**	4K3 = **171-7587**	11K = **171-7598**	30K = **171-7609**	75K = **171-7620**
1K8 = **171-7577**	4K7 = **171-7588**	12K = **171-7599**	33K = **171-7610**	82K = **171-7621**
2K = **171-7578**	5K1 = **171-7589**	13K = **171-7600**	36K = **171-7611**	91K = **171-7622**
2K2 = **171-7579**	5K6 = **171-7590**	15K = **171-7602**	39K = **171-7612**	100K = **171-7623**
2K4 = **171-7580**	6K2 = **171-7591**	16K = **171-7603**	43K = **171-7614**	

	Price Each				
Order Code	5+	50+	100+	500+	1K+
All Values ●					

0805 Case Size

Stocked in the following OHMIC Values:

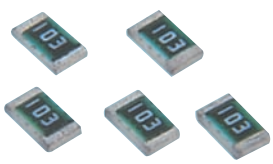
1K = **171-7624**	2K7 = **171-7635**	6K8 = **171-7646**	18K = **171-7658**	47K = **171-7669**
1K1 = **171-7626**	3K = **171-7636**	7K5 = **171-7647**	20K = **171-7659**	51K = **171-7670**
1K2 = **171-7627**	3K3 = **171-7638**	8K2 = **171-7648**	22K = **171-7660**	56K = **171-7671**
1K3 = **171-7628**	3K6 = **171-7639**	9K1 = **171-7651**	24K = **171-7661**	62K = **171-7672**
1K5 = **171-7629**	3K9 = **171-7640**	10K = **171-7652**	27K = **171-7663**	68K = **171-7673**
1K6 = **171-7630**	4K3 = **171-7641**	11K = **171-7653**	30K = **171-7664**	75K = **171-7675**
1K8 = **171-7631**	4K7 = **171-7642**	12K = **171-7654**	33K = **171-7665**	82K = **171-7676**
2K = **171-7632**	5K1 = **171-7643**	13K = **171-7655**	36K = **171-7666**	91K = **171-7677**
2K2 = **171-7633**	5K6 = **171-7644**	15K = **171-7656**	39K = **171-7667**	100K = **171-7678**
2K4 = **171-7634**	6K2 = **171-7645**	16K = **171-7657**	43K = **171-7668**	

539815

	Price Each				
Order Code	5+	50+	100+	500+	1K+
All Values ●					

RN73 Series

0402 Case Size ±0.1% ±10ppm/°C



- Thin Film
- High Precision
- Stable High Frequency Performance

Power rating @ 70°C	63mW	Limiting Element Voltage	25V
Operating temperature	-55°C to +125°C	Max. overload voltage	50V
Temperature coefficient	± 10ppm/°C		

Stocked in the following OHMIC Values:

51R1 = **173-7874**	80R6 = **173-7896**	127R = **173-7917**	200R = **173-7938**	316R = **173-7959**
52R3 = **173-7875**	82R5 = **173-7897**	130R = **173-7918**	205R = **173-7939**	324R = **173-7961**
53R6 = **173-7876**	84R5 = **173-7898**	133R = **173-7919**	210R = **173-7940**	332R = **173-7962**
54R9 = **173-7877**	86R6 = **173-7899**	137R = **173-7920**	215R = **173-7941**	340R = **173-7963**
56R2 = **173-7878**	88R7 = **173-7900**	140R = **173-7921**	221R = **173-7942**	348R = **173-7964**
57R6 = **173-7881**	90R9 = **173-7901**	143R = **173-7923**	226R = **173-7943**	357R = **173-7965**
59R = **173-7882**	93R1 = **173-7902**	147R = **173-7924**	232R = **173-7944**	365R = **173-7966**
60R4 = **173-7883**	95R3 = **173-7903**	150R = **173-7925**	237R = **173-7945**	374R = **173-7967**
61R9 = **173-7884**	97R6 = **173-7904**	154R = **173-7926**	243R = **173-7947**	383R = **173-7968**
63R4 = **173-7885**	100R = **173-7905**	158R = **173-7927**	249R = **173-7948**	392R = **173-7969**
64R9 = **173-7886**	102R = **173-7906**	162R = **173-7928**	255R = **173-7949**	402R = **173-7970**
66R5 = **173-7887**	105R = **173-7907**	165R = **173-7929**	261R = **173-7950**	412R = **173-7972**
68R1 = **173-7888**	107R = **173-7908**	169R = **173-7930**	267R = **173-7951**	422R = **173-7973**
69R8 = **173-7889**	110R = **173-7911**	174R = **173-7931**	274R = **173-7952**	432R = **173-7974**
71R5 = **173-7890**	113R = **173-7912**	178R = **173-7932**	280R = **173-7953**	442R = **173-7975**
73R2 = **173-7891**	115R = **173-7913**	182R = **173-7933**	287R = **173-7954**	453R = **173-7976**
75R = **173-7893**	118R = **173-7914**	187R = **173-7935**	294R = **173-7955**	464R = **173-7977**
76R8 = **173-7894**	121R = **173-7915**	191R = **173-7936**	301R = **173-7956**	475R = **173-7978**
78R7 = **173-7895**	124R = **173-7916**	196R = **173-7937**	309R = **173-7957**	487R = **173-7979**

RoHS ● Compliant ▲ Non-compliant

499R = **173-7980**	1K = **173-8013**	2K = **173-8044**	4K02 = **173-8077**	7K87 = **173-8108**
511R = **173-7981**	1K02 = **173-8014**	2K05 = **173-8046**	4K12 = **173-8078**	8K06 = **173-8109**
523R = **173-7982**	1K05 = **173-8015**	2K1 = **173-8047**	4K22 = **173-8079**	8K25 = **173-8110**
536R = **173-7984**	1K07 = **173-8016**	2K15 = **173-8048**	4K32 = **173-8080**	8K45 = **173-8111**
549R = **173-7985**	1K1 = **173-8017**	2K21 = **173-8049**	4K42 = **173-8081**	8K66 = **173-8113**
562R = **173-7986**	1K13 = **173-8018**	2K26 = **173-8050**	4K53 = **173-8083**	8K87 = **173-8114**
576R = **173-7987**	1K15 = **173-8019**	2K32 = **173-8051**	4K64 = **173-8084**	9K09 = **173-8115**
590R = **173-7988**	1K18 = **173-8020**	2K37 = **173-8052**	4K75 = **173-8085**	9K31 = **173-8116**
604R = **173-7989**	1K21 = **173-8022**	2K43 = **173-8053**	4K87 = **173-8086**	9K53 = **173-8117**
619R = **173-7990**	1K24 = **173-8023**	2K49 = **173-8054**	4K99 = **173-8087**	9K76 = **173-8118**
634R = **173-7991**	1K27 = **173-8024**	2K55 = **173-8055**	5K11 = **173-8088**	10K = **173-8119**
649R = **173-7992**	1K3 = **173-8025**	2K61 = **173-8056**	5K23 = **173-8089**	10K2 = **173-8120**
665R = **173-7993**	1K33 = **173-8026**	2K67 = **173-8058**	5K36 = **173-8090**	10K5 = **173-8121**
681R = **173-7994**	1K37 = **173-8027**	2K74 = **173-8059**	5K49 = **173-8091**	10K7 = **173-8122**
698R = **173-7996**	1K4 = **173-8028**	2K8 = **173-8060**	5K62 = **173-8092**	11K = **173-8123**
715R = **173-7997**	1K43 = **173-8029**	2K87 = **173-8061**	5K76 = **173-8093**	11K3 = **173-8125**
732R = **173-7998**	1K47 = **173-8030**	2K94 = **173-8062**	5K9 = **173-8095**	11K5 = **173-8126**
750R = **173-7999**	1K5 = **173-8031**	3K01 = **173-8063**	6K04 = **173-8096**	11K8 = **173-8127**
768R = **173-8000**	1K54 = **173-8032**	3K09 = **173-8064**	6K19 = **173-8097**	12K1 = **173-8128**
787R = **173-8001**	1K58 = **173-8034**	3K16 = **173-8065**	6K34 = **173-8098**	12K4 = **173-8129**
806R = **173-8002**	1K62 = **173-8035**	3K24 = **173-8066**	6K49 = **173-8099**	12K7 = **173-8130**
825R = **173-8003**	1K65 = **173-8036**	3K32 = **173-8067**	6K65 = **173-8101**	13K = **173-8131**
845R = **173-8004**	1K69 = **173-8037**	3K4 = **173-8068**	6K81 = **173-8102**	13K3 = **173-8132**
866R = **173-8005**	1K74 = **173-8038**	3K48 = **173-8071**	6K98 = **173-8103**	13K7 = **173-8133**
887R = **173-8006**	1K78 = **173-8039**	3K57 = **173-8072**	7K15 = **173-8104**	14K = **173-8134**
909R = **173-8007**	1K82 = **173-8040**	3K65 = **173-8073**	7K32 = **173-8105**	14K3 = **173-8135**
931R = **173-8009**	1K87 = **173-8041**	3K74 = **173-8074**	7K5 = **173-8106**	14K7 = **173-8137**
953R = **173-8011**	1K91 = **173-8042**	3K83 = **173-8075**	7K68 = **173-8107**	15K = **173-8138**
976R = **173-8012**	1K96 = **173-8043**	3K92 = **173-8076**		

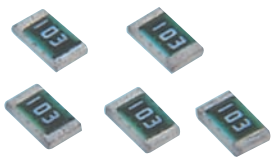
541506

Order Code	Price Each 5+	50+	100+	500+	1K+
All Values ●					

Surface Mount – Nickel Barrier

Tyco Electronics

RN Series – ±0.1% ±10ppm/°C 0603 Case Size



- E96 range precision thin film resistors
- 0603 case size
- Close tolerance ±0.1%
- Temperature coefficient ±10ppm/°C
- Excellent long term stability

H = 0.3, W = 0.8, L = 1.6
Supplied on 8mm tape, individually marked

Power rating @ 70°C	63mW	Max. working voltage	50 Volts
Operating temperature	-55°C to +125°C	Max. overload voltage	100 Volts
Temperature coefficient	±10ppm/°C		

Stocked in the following OHMIC Values:

10R = **121-9854**	187R = **114-0468**	1K02 = **114-0510**	3K92 = **114-0544**	15K = **114-0578**
12R4 = **114-0423**	196R = **114-0469**	1K05 = **114-0695**	4K02 = **114-0545**	15K4 = **114-0579**
13R = **114-0424**	200R = **114-0470**	1K1 = **114-0511**	4K12 = **114-0546**	15K8 = **114-0580**
14R3 = **114-0426**	221R = **114-0471**	1K13 = **114-0512**	4K22 = **121-9863**	16K2 = **114-0581**
15R = **114-0427**	226R = **114-0472**	1K18 = **114-0513**	4K99 = **121-9864**	16K5 = **114-0582**
17R8 = **114-0429**	243R = **114-0473**	1K21 = **114-0514**	5K11 = **114-0547**	16K9 = **114-0583**
19R1 = **114-0430**	249R = **114-0475**	1K24 = **114-0515**	5K49 = **114-0548**	18K2 = **114-0585**
22R1 = **114-0431**	267R = **114-0476**	1K3 = **121-9857**	5K62 = **114-0549**	19K6 = **114-0586**
24R9 = **114-0432**	280R = **114-0477**	1K37 = **114-0517**	5K9 = **114-0550**	20K = **121-9869**
26R1 = **114-0434**	287R = **114-0478**	1K47 = **121-9858**	6K04 = **114-0551**	20K5 = **114-0587**
27R4 = **114-0435**	301R = **114-0479**	1K62 = **121-9859**	6K19 = **114-0552**	21K5 = **121-9871**
30R1 = **114-0436**	316R = **114-0480**	1K65 = **114-0518**	6K34 = **114-0554**	22K1 = **114-0588**
33R2 = **114-0438**	324R = **114-0481**	1K69 = **114-0519**	6K65 = **114-0555**	22K6 = **114-0591**
34R = **114-0439**	332R = **114-0482**	1K74 = **114-0520**	6K81 = **114-0556**	24K3 = **114-0592**
39R2 = **114-0440**	340R = **114-0483**	1K82 = **114-0521**	6K98 = **114-0557**	24K9 = **114-0593**
40R2 = **114-0441**	348R = **114-0484**	1K87 = **114-0522**	7K32 = **114-0558**	25K5 = **114-0594**
44R2 = **114-0442**	392R = **114-0487**	2K = **114-0523**	7K5 = **114-0559**	26K1 = **114-0595**
46R4 = **114-0443**	402R = **114-0488**	2K05 = **114-0524**	7K87 = **114-0560**	26K7 = **114-0596**
47R5 = **114-0444**	412R = **114-0489**	2K1 = **114-0525**	8K25 = **114-0561**	27K4 = **114-0597**
49R9 = **114-0445**	432R = **114-0490**	2K15 = **114-0527**	8K45 = **114-0562**	29K4 = **114-0598**
51R1 = **114-0446**	442R = **114-0491**	2K21 = **114-0529**	8K87 = **114-0563**	30K1 = **114-0599**
52R3 = **114-0447**	453R = **114-0492**	2K43 = **121-9860**	9K09 = **114-0564**	30K9 = **114-0600**
53R6 = **114-0448**	475R = **114-0493**	2K49 = **121-9861**	9K53 = **114-0566**	32K4 = **114-0601**
54R9 = **114-0451**	487R = **114-0494**	2K55 = **121-9862**	9K76 = **114-0567**	33K2 = **114-0602**
56R2 = **114-0452**	499R = **114-0495**	2K74 = **114-0531**	10K = **121-9866**	34K = **114-0603**
57R6 = **114-0453**	511R = **114-0496**	2K8 = **114-0532**	10K5 = **121-9867**	35K7 = **114-0604**
59R = **114-0454**	523R = **114-0497**	2K94 = **114-0533**	11K = **114-0568**	38K3 = **114-0606**
61R9 = **114-0456**	562R = **114-0500**	3K01 = **114-0534**	12K1 = **114-0569**	39K2 = **114-0608**
68R1 = **114-0457**	604R = **114-0501**	3K16 = **114-0535**	12K4 = **114-0570**	40K2 = **114-0609**
75R = **114-0460**	634R = **114-0502**	3K24 = **114-0536**	13K = **114-0571**	42K2 = **114-0610**
82R5 = **114-0463**	649R = **114-0503**	3K32 = **114-0537**	13K3 = **114-0572**	44K2 = **114-0611**
90R9 = **114-0464**	698R = **114-0505**	3K4 = **114-0538**	13K7 = **114-0573**	45K3 = **114-0612**
100R = **121-9855**	732R = **114-0506**	3K48 = **114-0539**	14K = **114-0574**	46K4 = **114-0613**
121R = **114-0465**	750R = **114-0507**	3K57 = **114-0540**	14K3 = **114-0575**	47K5 = **114-0614**
133R = **114-0466**	825R = **114-0508**	3K65 = **114-0542**	14K7 = **114-0576**	49K9 = **114-0615**
150R = **114-0467**	1K = **114-0509**	3K83 = **114-0543**		

312082

Order Code	Price Each 5+	50+	100+	500+	1K+
All Values ● RL					

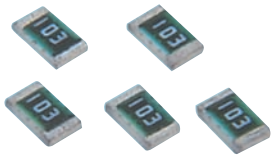
TROUBLESHOOTING TIPS

Chat online to one of our technical engineers at **farnell.com**

Surface Mount – Nickel Barrier

Tyco Electronics

RN Series – ±0.1% ±10ppm/°C 0805 Case Size



- E96 range precision film resistors
- 0805 case size
- Close tolerance, excellent long term stability

Power rating @ 70°C 100mW

L=2.0 W=1.25 H=0.5 ±0.2
Supplied on 8mm tape, individually marked

Stocked in the following OHMIC Values:

10R = **114-0621**	100R = **114-0696**	649R = **114-0785**	4K02 = **114-0869**	24K9 = **114-0955**
10R2 = **114-0616**	102R = **114-0697**	665R = **114-0786**	4K12 = **114-0870**	25K5 = **114-0956**
10R5 = **114-0617**	105R = **114-0698**	681R = **114-0787**	4K22 = **114-0871**	26K1 = **114-0957**
11R = **114-0625**	107R = **114-0699**	698R = **114-0788**	4K32 = **114-0872**	26K7 = **114-0958**
11R3 = **114-0622**	110R = **114-0701**	715R = **114-0789**	4K42 = **114-0873**	27K4 = **114-0959**
11R5 = **114-0623**	113R = **114-0702**	732R = **114-0790**	4K53 = **114-0874**	28K = **114-0960**
11R8 = **114-0624**	115R = **114-0703**	750R = **114-0791**	4K64 = **114-0876**	28K7 = **114-0961**
12R1 = **114-0626**	118R = **114-0704**	768R = **114-0792**	4K75 = **114-0877**	29K4 = **114-0962**
12R4 = **114-0627**	121R = **114-0705**	787R = **114-0793**	4K87 = **114-0878**	30K1 = **114-0963**
12R7 = **114-0628**	124R = **114-0706**	806R = **114-0794**	4K99 = **114-0879**	30K9 = **114-0964**
13R = **114-0633**	127R = **114-0707**	825R = **114-0795**	5K11 = **114-0880**	31K6 = **114-0965**
13R3 = **114-0630**	130R = **114-0708**	845R = **114-0797**	5K23 = **114-0881**	32K4 = **114-0967**
14R = **114-0636**	133R = **114-0709**	866R = **114-0798**	5K36 = **114-0882**	33K2 = **114-0968**
14R3 = **114-0634**	137R = **114-0710**	887R = **114-0799**	5K49 = **114-0883**	34K = **114-0969**
14R7 = **114-0635**	140R = **114-0713**	909R = **114-0800**	5K62 = **114-0884**	34K8 = **114-0970**
15R = **114-0639**	143R = **114-0714**	931R = **114-0801**	5K76 = **114-0885**	35K7 = **114-0971**
15R4 = **114-0637**	147R = **114-0715**	953R = **114-0803**	5K9 = **114-0886**	36K5 = **114-0972**
15R8 = **114-0638**	150R = **114-0717**	976R = **114-0804**	6K04 = **114-0888**	37K4 = **114-0973**
16R2 = **114-0640**	154R = **114-0718**	1K = **114-0805**	6K19 = **114-0889**	38K3 = **114-0974**
16R5 = **114-0641**	158R = **114-0719**	1K02 = **114-0806**	6K34 = **114-0890**	39K2 = **114-0975**
16R9 = **114-0642**	162R = **114-0720**	1K05 = **114-0807**	6K49 = **114-0891**	40K2 = **114-0976**
17R4 = **114-0643**	165R = **114-0721**	1K07 = **114-0808**	6K65 = **114-0892**	41K2 = **114-0977**
17R8 = **114-0645**	169R = **114-0722**	1K1 = **114-0809**	6K81 = **114-0893**	42K2 = **114-0979**
18R2 = **114-0646**	174R = **114-0724**	1K13 = **114-0810**	6K98 = **114-0894**	43K2 = **114-0981**
19R1 = **114-0648**	178R = **114-0725**	1K15 = **114-0811**	7K15 = **114-0895**	44K2 = **114-0982**
19R6 = **114-0649**	182R = **114-0726**	1K18 = **114-0812**	7K32 = **114-0896**	45K3 = **114-0983**
20R = **114-0651**	187R = **114-0727**	1K21 = **114-0813**	7K5 = **114-0897**	46K4 = **114-0984**
20R5 = **114-0650**	191R = **114-0728**	1K24 = **114-0815**	7K68 = **114-0898**	47K5 = **114-0985**
21R = **114-0653**	200R = **114-0730**	1K27 = **114-0816**	7K87 = **114-0900**	48K7 = **114-0986**
21R5 = **114-0652**	205R = **114-0731**	1K3 = **114-0817**	8K06 = **114-0901**	49K9 = **114-0987**
22R1 = **114-0654**	210R = **114-0732**	1K33 = **114-0818**	8K25 = **114-0902**	51K1 = **114-0988**
22R6 = **114-0655**	215R = **114-0733**	1K37 = **114-0819**	8K45 = **114-0903**	52K3 = **114-0989**
23R2 = **114-0657**	221R = **114-0734**	1K4 = **114-0820**	8K66 = **114-0904**	53K6 = **114-0990**
23R7 = **114-0658**	226R = **114-0736**	1K43 = **114-0821**	8K87 = **114-0907**	54K9 = **114-0992**
24R3 = **114-0660**	232R = **114-0737**	1K47 = **114-0822**	9K09 = **114-0908**	56K2 = **114-0993**
24R9 = **114-0661**	237R = **114-0738**	1K5 = **114-0823**	9K31 = **114-0909**	57K6 = **114-0994**
25R5 = **114-0662**	243R = **114-0739**	1K54 = **114-0824**	9K53 = **114-0910**	59K = **114-0995**
26R1 = **114-0663**	249R = **114-0740**	1K58 = **114-0825**	9K76 = **114-0911**	60K4 = **114-0996**
26R7 = **114-0664**	255R = **114-0741**	1K62 = **114-0827**	10K = **114-0912**	61K9 = **114-0997**
27R4 = **114-0665**	267R = **114-0743**	1K65 = **114-0828**	10K2 = **114-0913**	63K4 = **114-0998**
28R = **114-0667**	274R = **114-0744**	1K69 = **114-0829**	10K5 = **114-0914**	64K9 = **114-0999**
28R7 = **114-0666**	280R = **114-0745**	1K74 = **114-0830**	10K7 = **114-0915**	66K5 = **114-1000**
30R1 = **114-0671**	287R = **114-0746**	1K78 = **114-0831**	11K = **114-0916**	68K1 = **114-1001**
30R9 = **114-0672**	294R = **114-0748**	1K82 = **114-0832**	11K3 = **114-0918**	69K8 = **114-1002**
31R6 = **114-0673**	301R = **114-0749**	1K87 = **114-0833**	11K5 = **114-0919**	71K5 = **114-1003**
32R4 = **114-0674**	309R = **114-0750**	1K91 = **114-0834**	11K8 = **114-0920**	73K2 = **114-1005**
33R2 = **114-0675**	316R = **114-0751**	1K96 = **114-0835**	12K1 = **114-0921**	75K = **114-1006**
34R = **114-0677**	324R = **114-0752**	2K = **114-0836**	12K4 = **114-0922**	76K8 = **114-1007**
34R8 = **114-0676**	332R = **114-0753**	2K05 = **114-0837**	12K7 = **114-0923**	78K7 = **114-1008**
35R7 = **114-0678**	340R = **114-0754**	2K1 = **114-0839**	13K = **114-0924**	80K6 = **114-1009**
36R5 = **114-0679**	348R = **114-0755**	2K15 = **114-0841**	13K3 = **114-0925**	82K5 = **114-1010**
37R4 = **114-0680**	357R = **114-0756**	2K21 = **114-0842**	13K7 = **114-0926**	84K5 = **114-1011**
38R3 = **114-0682**	365R = **114-0757**	2K26 = **114-0843**	14K = **114-0927**	86K6 = **114-1012**
39R2 = **114-0683**	374R = **114-0758**	2K32 = **114-0844**	14K3 = **114-0928**	88K7 = **114-1013**
40R2 = **114-0684**	383R = **114-0761**	2K37 = **114-0845**	14K7 = **114-0931**	90K9 = **114-1014**
41R2 = **114-0685**	392R = **114-0762**	2K43 = **114-0846**	15K = **114-0932**	93K1 = **114-1015**
42R2 = **114-0686**	402R = **114-0763**	2K49 = **114-0847**	15K4 = **114-0933**	95K3 = **114-1017**
43R2 = **114-0687**	412R = **114-0764**	2K55 = **114-0848**	15K8 = **114-0934**	97K6 = **114-1018**
44R2 = **114-0688**	422R = **114-0765**	2K61 = **114-0849**	16K2 = **114-0935**	100K = **114-1019**
45R3 = **114-0689**	432R = **114-0766**	2K67 = **114-0850**	16K5 = **114-0936**	102K = **114-0351**
46R4 = **114-0690**	442R = **114-0767**	2K74 = **114-0852**	16K9 = **114-0937**	105K = **114-0352**
47R5 = **114-0691**	453R = **114-0768**	2K8 = **114-0853**	17K4 = **114-0938**	107K = **114-0353**
48R7 = **114-0692**	464R = **114-0769**	2K87 = **114-0854**	17K8 = **114-0939**	110K = **114-0354**
49R9 = **114-0694**	475R = **114-0770**	2K94 = **114-0855**	18K2 = **114-0940**	113K = **114-0355**
51R1 = **114-0337**	487R = **114-0771**	3K01 = **114-0856**	18K7 = **114-0941**	115K = **114-0356**
53R6 = **114-0338**	499R = **114-0773**	3K09 = **114-0857**	19K1 = **114-0943**	118K = **114-0357**
56R2 = **114-0339**	511R = **114-0774**	3K16 = **114-0858**	19K6 = **114-0944**	121K = **114-0359**
59R = **114-0340**	523R = **114-0775**	3K24 = **114-0859**	20K = **114-0945**	124K = **114-0361**
61R9 = **114-0341**	536R = **114-0776**	3K32 = **114-0860**	20K5 = **114-0946**	127K = **114-0362**
64R9 = **114-0342**	549R = **114-0777**	3K4 = **114-0861**	21K = **114-0947**	130K = **114-0363**
68R1 = **114-0343**	562R = **114-0778**	3K48 = **114-0862**	21K5 = **114-0948**	133K = **114-0364**
75R = **114-0344**	576R = **114-0779**	3K57 = **114-0864**	22K1 = **114-0949**	137K = **114-0365**
78R7 = **114-0345**	590R = **114-0780**	3K65 = **114-0865**	22K6 = **114-0950**	140K = **114-0366**
82R5 = **114-0347**	604R = **114-0781**	3K74 = **114-0866**	23K2 = **114-0951**	143K = **114-0367**
90R9 = **114-0349**	619R = **114-0782**	3K83 = **114-0867**	23K7 = **114-0952**	147K = **114-0368**
95R3 = **114-0350**	634R = **114-0783**	3K92 = **114-0868**	24K3 = **114-0953**	150K = **114-0369**

207221

Order Code	Price Each 5+	50+	100+	500+	1K+
All Values ● RL					

RL **FREE Re-reeling service.** Only buy what you need and improve assembly efficiency. For more information visit **local website**

ERA Series

Panasonic Ideas for life

± 15ppm/°C, ± 0.1% tolerance

- High reliability - Stable at high temperature and humidity
- High accuracy - Small resistance tolerance and Temperature Coefficient of Resistance
- High performance - Low current noise, excellent non-linearity
- AECQ-200 Automotive Approved

SMD

Series	Case Style	Power Rating	Tolerance	Temperature Coefficient	Temperature Range
ERA3	0603	100mW	± 0.1%	± 15ppm/°C	-55°C to +155°C
ERA6	0805	125mW	± 0.1%	± 15ppm/°C	-55°C to +155°C

0603 Case Size

Stocked in the following OHMIC Values:

510R = NEW **189-2821**	2K7 = **171-7684**	9K1 = NEW **189-2838**	33K = **171-7699**
620R = NEW **189-2822**	3K = NEW **189-2831**	10K = **171-7692**	36K = NEW **189-2845**
750R = NEW **189-2823**	3K3 = **171-7685**	11K = NEW **189-2839**	39K = **171-7700**
910R = NEW **189-2825**	3K6 = NEW **189-2832**	12K = **171-7693**	43K = NEW **189-2846**
1K = **171-7679**	3K9 = **171-7687**	13K = NEW **189-2840**	47K = **171-7701**
1K1 = NEW **189-2826**	4K3 = NEW **189-2833**	15K = **171-7694**	56K = **171-7702**
1K2 = **171-7680**	4K7 = **171-7688**	16K = NEW **189-2841**	51K = NEW **189-2847**
1K3 = NEW **189-2827**	5K1 = NEW **189-2834**	18K = **171-7695**	62K = NEW **189-2849**
1K5 = **171-7681**	5K6 = **171-7689**	20K = NEW **189-2842**	68K = **171-7703**
1K6 = NEW **189-2828**	6K2 = NEW **189-2835**	22K = **171-7696**	82K = **171-7705**
1K8 = **171-7682**	6K8 = **171-7690**	24K = NEW **189-2843**	75K = NEW **189-2851**
2K = NEW **189-2829**	7K5 = NEW **189-2837**	27K = **171-7697**	91K = NEW **189-2852**
2K2 = **171-7683**	8K2 = **171-7691**	30K = NEW **189-2844**	100K = **171-7706**
2K4 = NEW **189-2830**			

Order Code	Price Each 5+	50+	100+	500+	1K+
0603 Case Size All Old					
All Values ●					
0603 Case Size All New					
All Values ●					

0805 Case Size

Stocked in the following OHMIC Values:

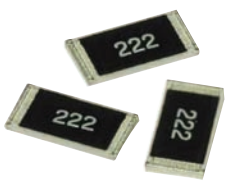
510R = NEW **189-2853**	2K7 = **171-7712**	9K1 = NEW **189-2869**	33K = **171-7726**
620R = NEW **189-2854**	3K = NEW **189-2863**	10K = **171-7720**	36K = NEW **189-2877**
750R = NEW **189-2855**	3K3 = **171-7713**	11K = NEW **189-2870**	39K = **171-7727**
910R = NEW **189-2856**	3K6 = NEW **189-2864**	12K = **171-7721**	43K = NEW **189-2878**
1K = **171-7707**	3K9 = **171-7714**	13K = NEW **189-2871**	47K = **171-7729**
1K1 = NEW **189-2857**	4K3 = NEW **189-2865**	15K = **171-7722**	51K = NEW **189-2879**
1K2 = **171-7708**	4K7 = **171-7715**	16K = NEW **189-2872**	56K = **171-7731**
1K3 = NEW **189-2858**	5K1 = NEW **189-2866**	18K = **171-7723**	62K = NEW **189-2880**
1K5 = **171-7709**	5K6 = **171-7717**	20K = NEW **189-2874**	68K = **171-7732**
1K6 = NEW **189-2859**	6K2 = NEW **189-2867**	22K = **171-7724**	75K = NEW **189-2881**
1K8 = **171-7710**	6K8 = **171-7718**	24K = NEW **189-2875**	82K = **171-7733**
2K = NEW **189-2860**	7K5 = NEW **189-2868**	27K = **171-7725**	91K = NEW **189-2882**
2K2 = **171-7711**	8K2 = **171-7719**	30K = NEW **189-2876**	100K = **171-7734**
2K4 = NEW **189-2862**			

539821

Order Code	Price Each 5+	50+	100+	500+	1K+
0805 Case Size All Old					
All Values ●					
0805 Case Size All New					
All Values ●					

CPF Series 0201 Case

Tyco Electronics



This high power device is suitable for auto placement in volume, and for most applications, including high frequency operations, owing to the short lead structure.

NEW

SMD

Features
- 2 Watts at 70°C
- Small Size to Power Ratio
- Supplied on Tape
- Value Marked on Resistor
- 500 Volt Maximum Overload
- 250 Volt Working Voltage
- Low Profile
- Terminal Finish - Matte Sn over Ni
- MSL Level 2
- 0.5% Tolerance
- Temperature Coefficient of 25ppm for values below 5KΩ

Power Rating	Voltage Rating	Resistance Tolerance	Temperature Coefficient
31.25mW	15V	± 0.5%	± 25ppm/°C

Resistance ohm	Order Code	Resistance		Resistance		Resistance	
49R9	211-7641	69R8	211-7656	95R3	211-7671	133R	211-7687
51R1	211-7643	71R5	211-7657	97R6	211-7672	137R	211-7688
52R3	211-7644	73R2	211-7658	100R	211-7673	140R	211-7689
53R6	211-7645	75R	211-7659	102R	211-7674	143R	211-7690
54R9	211-7646	76R8	211-7660	105R	211-7675	147R	211-7692
56R2	211-7647	78R7	211-7661	107R	211-7676	150R	211-7693
57R6	211-7648	80R6	211-7662	110R	211-7677	154R	211-7694
59R	211-7649	82R5	211-7663	113R	211-7679	158R	211-7695
60R4	211-7650	84R5	211-7664	115R	211-7681	162R	211-7696
61R9	211-7651	86R6	211-7665	118R	211-7682	165R	211-7697
63R4	211-7652	88R7	211-7667	121R	211-7683	169R	211-7698
64R9	211-7653	90R9	211-7668	124R	211-7684	174R	211-7699
66R5	211-7655	93R1	211-7669	127R	211-7685	178R	211-7700
			211-7670	130R	211-7686	182R	211-7701

Resistance		Resistance		Resistance		Resistance	
187R	211-7702	698R	211-7763	2K55	211-7823	9K31	211-7883
191R	211-7703	715R	211-7764	2K61	211-7825	9K53	211-7884
196R	211-7704	732R	211-7765	2K67	211-7826	9K76	211-7886
200R	211-7705	750R	211-7766	2K74	211-7827	10K	211-7887
205R	211-7706	768R	211-7767	2K8	211-7828	10K2	211-7888
210R	211-7707	787R	211-7768	2K87	211-7829	10K5	211-7889
215R	211-7709	806R	211-7771	2K94	211-7830	10K7	211-7890
221R	211-7711	825R	211-7772	3K01	211-7831	11K	211-7891
226R	211-7712	845R	211-7773	3K09	211-7832	11K3	211-7892
232R	211-7713	866R	211-7774	3K16	211-7833	11K5	211-7893
237R	211-7714	887R	211-7775	3K24	211-7834	11K8	211-7894
243R	211-7715	909R	211-7776	3K32	211-7835	12K	211-7895
249R	211-7716	931R	211-7777	3K4	211-7837	12K4	211-7896
255R	211-7717	953R	211-7778	3K48	211-7838	12K7	211-7898
261R	211-7718	976R	211-7779	3K57	211-7839	13K	211-7899
267R	211-7719	1K	211-7780	3K65	211-7840	13K3	211-7900
274R	211-7720	1K02	211-7781	3K74	211-7841	13K7	211-7901
280R	211-7722	1K05	211-7783	3K85	211-7842	14K	211-7902
287R	211-7723	1K07	211-7784	3K92	211-7843	14K3	211-7904
294R	211-7724	1K1	211-7785	4K02	211-7844	14K7	211-7905
301R	211-7725	1K13	211-7786	4K12	211-7845	15K	211-7906
309R	211-7726	1K15	211-7787	4K22	211-7846	15K4	211-7907
316R	211-7727	1K18	211-7788	4K32	211-7847	15K8	211-7908
324R	211-7728	1K21	211-7789	4K42	211-7849	16K2	211-7909
332R	211-7729	1K24	211-7790	4K53	211-7851	16K5	211-7910
340R	211-7730	1K27	211-7791	4K64	211-7852	16K9	211-7911
348R	211-7731	1K3	211-7792	4K75	211-7853	17K4	211-7912
357R	211-7732	1K33	211-7793	4K87	211-7854	17K8	211-7913
365R	211-7734	1K37	211-7795	4K99	211-7855	18K2	211-7914
374R	211-7735	1K4	211-7796	5K11	211-7856	18K7	211-7916
383R	211-7736	1K43	211-7797	5K23	211-7857	19K1	211-7917
392R	211-7737	1K47	211-7798	5K36	211-7858	19K6	211-7918
402R	211-7738	1K5	211-7799	5K49	211-7859	20K	211-7919
412R	211-7739	1K54	211-7801	5K62	211-7860	20K5	211-7920
422R	211-7740	1K58	211-7802	5K76	211-7862	21K	211-7921
432R	211-7741	1K62	211-7803	5K9	211-7863	21K5	211-7922
442R	211-7742	1K65	211-7804	6K04	211-7864	22K1	211-7923
453R	211-7743	1K69	211-7805	6K19	211-7865	22K6	211-7924
465R	211-7744	1K74	211-7806	6K34	211-7866	23K2	211-7925
475R	211-7746	1K78	211-7807	6K49	211-7867	23K7	211-7926
487R	211-7747	1K82	211-7808	6K65	211-7868	24K3	211-7928
449R	211-7748	1K87	211-7809	6K81	211-7869	24K9	211-7929
511R	211-7749	1K91	211-7810	6K98	211-7870	25K5	211-7930
523R	211-7750	1K96	211-7811	7K15	211-7871	26K1	211-7931
536R	211-7751	2K	211-7813	7K32	211-7872	26K7	211-7932
549R	211-7752	2K05	211-7814	7K5	211-7874	27K4	211-7933
562R	211-7753	2K1	211-7815	7K68	211-7875	28K	211-7934
576R	211-7754	2K15	211-7816	7K87	211-7876	28K7	211-7935
590R	211-7755	2K21	211-7817	8K06	211-7877	29K4	211-7936
604R	211-7756	2K26	211-7818	8K25	211-7878	30K1	211-7937
619R	211-7758	2K32	211-7819	8K45	211-7879	30K9	211-7938
634R	211-7759	2K37	211-7820	8K66	211-7880	31K6	211-7941
649R	211-7760	2K43	211-7821	8K87	211-7881	32K4	211-7942
665R	211-7761	2K49	211-7822	9K09	211-7882	33K2	211-7943
681R	211-7762						

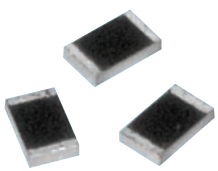
660334

Order Code	Price Each 10+	100+	250+	500+	1K+
All Values					

Surface Mount – Precision Resistors

Tyco Electronics

RP73 Series



- High precision – 0.1% 15 ppm/°C
- Thin film Nichrome technology
- Stable high frequency performance
- Wide operating temperature range

SMD

	0603 Case Size	0805 Case Size
Power rating @ 70°C	100mW	125mW
Maximum operating voltage	50V	75V
Temperature coefficient	± 15ppm/°C	± 15ppm/°C
Operating temperature	-55°C to +155°C	-55°C to +155°C

0.1 Watt ±0.1% (0603 Case Size)

Stocked in the following OHMIC Values:

4R75 = **175-2233**	10R = **175-2268**	20R5 = **175-2301**	42R2 = **175-2334**	86R6 = **175-2368**
4R87 = **175-2234**	10R2 = **175-2269**	21R = **175-2302**	43R2 = **175-2335**	88R7 = **175-2369**
4R99 = **175-2235**	10R5 = **175-2270**	21R5 = **175-2304**	44R2 = **175-2336**	90R9 = **175-2370**
5R11 = **175-2237**	10R7 = **175-2271**	22R1 = **175-2305**	45R3 = **175-2337**	93R1 = **175-2371**
536R = **175-2239**	11R = **175-2272**	22R6 = **175-2306**	46R4 = **175-2338**	95R3 = **175-2372**
5R49 = **175-2240**	11R3 = **175-2274**	23R2 = **175-2307**	47R5 = **175-2341**	97R6 = **175-2373**
5R62 = **175-2241**	11R5 = **175-2275**	23R7 = **175-2308**	48R7 = **175-2342**	100R = **175-2374**
5R76 = **175-2242**	11R8 = **175-2276**	24R3 = **175-2309**	49R9 = **175-2343**	102R = **175-2375**
5R9 = **175-2243**	12R1 = **175-2277**	24R9 = **175-2310**	51R1 = **175-2344**	105R = **175-2377**
6R04 = **175-2244**	12R4 = **175-2278**	25R5 = **175-2311**	52R3 = **175-2345**	107R = **175-2378**
6R19 = **175-2245**	12R7 = **175-2279**	26R1 = **175-2312**	53R6 = **175-2346**	110R = **175-2379**
6R34 = **175-2246**	13R = **175-2280**	26R7 = **175-2313**	54R9 = **175-2347**	113R = **175-2380**
6R49 = **175-2247**	13R3 = **175-2281**	27R4 = **175-2314**	56R2 = **175-2348**	115R = **175-2381**
6R65 = **175-2249**	13R7 = **175-2282**	28R = **175-2316**	57R6 = **175-2349**	118R = **175-2382**
6R81 = **175-2251**	14R = **175-2283**	28R7 = **175-2317**	59R = **175-2350**	121R = **175-2383**
6R98 = **175-2252**	14R3 = **175-2284**	29R4 = **175-2318**	60R4 = **175-2351**	124R = **175-2384**
7R15 = **175-2253**	14R7 = **175-2286**	30R1 = **175-2319**	61R9 = **175-2353**	127R = **175-2385**
7R32 = **175-2254**	15R = **175-2287**	30R9 = **175-2320**	63R4 = **175-2354**	130R = **175-2386**
7R5 = **175-2255**	15R4 = **175-2288**	31R6 = **175-2321**	64R9 = **175-2355**	133R = **175-2387**
7R68 = **175-2256**	15R8 = **175-2289**	32R4 = **175-2322**	66R5 = **175-2356**	137R = **175-2389**
7R87 = **175-2257**	16R2 = **175-2290**	33R2 = **175-2323**	68R1 = **175-2357**	140R = **175-2391**
8R06 = **175-2258**	16R5 = **175-2291**	34R = **175-2324**	69R8 = **175-2358**	143R = **175-2392**
8R25 = **175-2259**	16R9 = **175-2292**	34R8 = **175-2325**	71R5 = **175-2359**	147R = **175-2393**
8R45 = **175-2260**	17R4 = **175-2293**	35R7 = **175-2326**	73R2 = **175-2360**	150R = **175-2394**
8R66 = **175-2262**	17R8 = **175-2294**	36R5 = **175-2328**	75R = **175-2361**	154R = **175-2395**
8R87 = **175-2263**	18R2 = **175-2295**	37R4 = **175-2329**	76R8 = **175-2362**	158R = **175-2396**
9R09 = **175-2264**	18R7 = **175-2296**	38R3 = **175-2330**	78R7 = **175-2363**	162R = **175-2397**
9R31 = **175-2265**	19R1 = **175-2298**	39R2 = **175-2331**	80R6 = **175-2365**	165R = **175-2398**
9R53 = **175-2266**	19R6 = **175-2299**	40R2 = **175-2332**	82R5 = **175-2366**	169R = **175-2399**
9R76 = **175-2267**	20R = **175-2300**	41R2 = **175-2333**	84R5 = **175-2367**	174R = **175-2400**

RoHS ● Compliant ▲ Non-compliant

178R = **175-2401**	806R = **175-2471**	3K65 = **175-2541**	16K5 = **175-2611**	75K = **175-2681**
182R = **175-2402**	825R = **175-2472**	3K74 = **175-2542**	16K9 = **175-2612**	76K8 = **175-2682**
187R = **175-2403**	845R = **175-2473**	3K83 = **175-2543**	17K4 = **175-2614**	78K7 = **175-2683**
191R = **175-2404**	866R = **175-2474**	3K92 = **175-2544**	17K8 = **175-2615**	80K6 = **175-2684**
196R = **175-2405**	887R = **175-2475**	4K02 = **175-2545**	18K2 = **175-2616**	82K5 = **175-2685**
200R = **175-2407**	909R = **175-2476**	4K12 = **175-2547**	18K7 = **175-2617**	84K5 = **175-2687**
205R = **175-2408**	931R = **175-2477**	4K22 = **175-2548**	19K1 = **175-2618**	86K6 = **175-2688**
210R = **175-2409**	953R = **175-2478**	4K32 = **175-2549**	19K6 = **175-2619**	88K7 = **175-2689**
215R = **175-2410**	976R = **175-2481**	4K42 = **175-2550**	20K = **175-2620**	90K9 = **175-2690**
221R = **175-2411**	1K = **175-2482**	4K53 = **175-2551**	20K5 = **175-2621**	93K1 = **175-2691**
226R = **175-2412**	1K02 = **175-2483**	4K64 = **175-2552**	21K = **175-2622**	95K3 = **175-2692**
232R = **175-2413**	1K05 = **175-2484**	4K75 = **175-2553**	21K5 = **175-2623**	97K6 = **175-2693**
237R = **175-2414**	1K07 = **175-2485**	4K87 = **175-2554**	22K1 = **175-2624**	100K = **175-2694**
243R = **175-2415**	1K1 = **175-2486**	4K99 = **175-2555**	22K6 = **175-2626**	102K = **175-2695**
249R = **175-2416**	1K13 = **175-2487**	5K11 = **175-2556**	23K2 = **175-2627**	105K = **175-2696**
255R = **175-2417**	1K15 = **175-2488**	5K23 = **175-2557**	23K7 = **175-2628**	107K = **175-2697**
261R = **175-2419**	1K18 = **175-2489**	5K36 = **175-2559**	24K3 = **175-2629**	110K = **175-2699**
267R = **175-2421**	1K21 = **175-2490**	5K49 = **175-2561**	24K9 = **175-2630**	113K = **175-2700**
274R = **175-2422**	1K24 = **175-2491**	5K62 = **175-2562**	25K5 = **175-2631**	115K = **175-2701**
280R = **175-2423**	1K27 = **175-2493**	5K76 = **175-2563**	26K1 = **175-2632**	118K = **175-2702**
287R = **175-2424**	1K3 = **175-2494**	5K9 = **175-2564**	26K7 = **175-2633**	121K = **175-2703**
294R = **175-2425**	1K33 = **175-2495**	6K04 = **175-2565**	27K4 = **175-2634**	124K = **175-2705**
301R = **175-2426**	1K37 = **175-2496**	6K19 = **175-2566**	28K = **175-2635**	127K = **175-2706**
309R = **175-2427**	1K4 = **175-2497**	6K34 = **175-2567**	28K7 = **175-2636**	130K = **175-2707**
316R = **175-2428**	1K43 = **175-2498**	6K49 = **175-2568**	29K4 = **175-2638**	133K = **175-2708**
324R = **175-2429**	1K47 = **175-2499**	6K65 = **175-2569**	30K1 = **175-2639**	137K = **175-2709**
332R = **175-2430**	1K5 = **175-2500**	6K81 = **175-2570**	30K9 = **175-2640**	140K = **175-2710**
340R = **175-2432**	1K54 = **175-2501**	6K98 = **175-2572**	31K6 = **175-2641**	143K = **175-2711**
348R = **175-2433**	1K58 = **175-2502**	7K15 = **175-2573**	32K4 = **175-2642**	147K = **175-2712**
357R = **175-2434**	1K62 = **175-2503**	7K32 = **175-2574**	33K2 = **175-2643**	150K = **175-2713**
365R = **175-2435**	1K65 = **175-2504**	7K5 = **175-2575**	34K = **175-2644**	154K = **175-2714**
374R = **175-2436**	1K69 = **175-2505**	7K68 = **175-2576**	34K8 = **175-2645**	158K = **175-2715**
383R = **175-2437**	1K74 = **175-2506**	7K87 = **175-2577**	35K7 = **175-2646**	162K = **175-2717**
392R = **175-2438**	1K78 = **175-2507**	8K06 = **175-2578**	36K5 = **175-2647**	165K = **175-2718**
402R = **175-2439**	1K82 = **175-2508**	8K25 = **175-2579**	37K4 = **175-2648**	169K = **175-2719**
412R = **175-2440**	1K87 = **175-2511**	8K45 = **175-2580**	38K3 = **175-2651**	174K = **175-2720**
422R = **175-2441**	1K91 = **175-2512**	8K66 = **175-2581**	39K2 = **175-2652**	178K = **175-2721**
432R = **175-2442**	1K96 = **175-2513**	8K87 = **175-2582**	40K2 = **175-2653**	182K = **175-2722**
442R = **175-2444**	2K = **175-2514**	9K09 = **175-2584**	41K2 = **175-2654**	187K = **175-2723**
453R = **175-2445**	2K05 = **175-2515**	9K31 = **175-2585**	42K2 = **175-2655**	191K = **175-2724**
464R = **175-2446**	2K1 = **175-2516**	9K53 = **175-2586**	43K2 = **175-2656**	196K = **175-2725**
475R = **175-2447**	2K15 = **175-2517**	9K76 = **175-2587**	44K2 = **175-2657**	200K = **175-2726**
487R = **175-2448**	2K21 = **175-2518**	10K = **175-2588**	45K3 = **175-2658**	205K = **175-2727**
499R = **175-2449**	2K26 = **175-2519**	10K2 = **175-2589**	46K4 = **175-2659**	210K = **175-2729**
511R = **175-2450**	2K32 = **175-2520**	10K5 = **175-2590**	47K5 = **175-2660**	215K = **175-2731**
523R = **175-2451**	2K37 = **175-2521**	10K7 = **175-2591**	48K7 = **175-2661**	221K = **175-2732**
536R = **175-2452**	2K43 = **175-2523**	11K = **175-2592**	49K9 = **175-2663**	226K = **175-2733**
549R = **175-2453**	2K49 = **175-2524**	11K3 = **175-2593**	51K1 = **175-2664**	232K = **175-2734**
562R = **175-2454**	2K55 = **175-2525**	11K5 = **175-2594**	52K3 = **175-2665**	237K = **175-2735**
576R = **175-2456**	2K61 = **175-2526**	11K8 = **175-2596**	53K6 = **175-2666**	243K = **175-2736**
590R = **175-2457**	2K67 = **175-2527**	12K1 = **175-2597**	54K9 = **175-2667**	249K = **175-2737**
604R = **175-2458**	2K74 = **175-2528**	12K4 = **175-2598**	56K2 = **175-2668**	255K = **175-2738**
619R = **175-2459**	2K8 = **175-2529**	12K7 = **175-2599**	57K6 = **175-2669**	261K = **175-2739**
634R = **175-2460**	2K87 = **175-2530**	13K = **175-2600**	59K = **175-2670**	267K = **175-2740**
649R = **175-2461**	2K94 = **175-2531**	13K3 = **175-2602**	60K4 = **175-2671**	274K = **175-2742**
665R = **175-2462**	3K01 = **175-2532**	13K7 = **175-2603**	61K9 = **175-2672**	280K = **175-2743**
681R = **175-2463**	3K09 = **175-2533**	14K = **175-2604**	63K4 = **175-2673**	287K = **175-2744**
698R = **175-2464**	3K16 = **175-2535**	14K3 = **175-2605**	64K9 = **175-2675**	294K = **175-2745**
715R = **175-2465**	3K24 = **175-2536**	14K7 = **175-2606**	66K5 = **175-2676**	301K = **175-2746**
732R = **175-2466**	3K32 = **175-2537**	15K = **175-2607**	68K1 = **175-2677**	309K = **175-2747**
750R = **175-2468**	3K4 = **175-2538**	15K4 = **175-2608**	69K8 = **175-2678**	316K = **175-2748**
768R = **175-2469**	3K48 = **175-2539**	15K8 = **175-2609**	71K5 = **175-2679**	324K = **175-2749**
787R = **175-2470**	3K57 = **175-2540**	16K2 = **175-2610**	73K2 = **175-2680**	332K = **175-2750**

Order Multiple=5	Price Each				
Order Code	5+	50+	100+	500+	1K+
All Values ●					

0.125 Watt ±0.1% (0805 Case Size)

Stocked in the following OHMIC Values:

4R75 = **150-1923**	12R7 = **150-1969**	33R2 = **150-2014**	86R6 = **150-2058**	221R = **150-2101**
4R87 = **150-1924**	13R = **150-1970**	34R8 = **150-2016**	88R7 = **150-2059**	226R = **150-2102**
4R99 = **150-1925**	13R3 = **150-1971**	35R7 = **150-2017**	90R9 = **150-2060**	232R = **150-2103**
5R11 = **150-1927**	13R7 = **150-1972**	36R5 = **150-2018**	93R1 = **150-2061**	237R = **150-2105**
5R23 = **150-1928**	14R = **150-1973**	37R4 = **150-2019**	95R3 = **150-2063**	243R = **150-2106**
5R36 = **150-1929**	14R3 = **150-1974**	38R3 = **150-2020**	97R6 = **150-2064**	249R = **150-2107**
5R49 = **150-1930**	14R7 = **150-1976**	39R2 = **150-2021**	100R = **150-2065**	255R = **150-2108**
5R62 = **150-1931**	15R = **150-1977**	40R2 = **150-2022**	105R = **150-2067**	261R = **150-2109**
5R9 = **150-1933**	15R4 = **150-1978**	41R2 = **150-2023**	107R = **150-2068**	267R = **150-2110**
6R04 = **150-1934**	15R8 = **150-1979**	42R2 = **150-2024**	110R = **150-2069**	274R = **150-2111**
6R19 = **150-1935**	16R2 = **150-1980**	43R2 = **150-2026**	113R = **150-2070**	280R = **150-2112**
6R34 = **150-1936**	16R5 = **150-1981**	44R2 = **150-2027**	115R = **150-2071**	287R = **150-2113**
6R49 = **150-1937**	17R4 = **150-1983**	45R3 = **150-2028**	118R = **150-2072**	294R = **150-2114**
6R65 = **150-1939**	17R8 = **150-1984**	46R4 = **150-2029**	121R = **150-2073**	301R = **150-2115**
6R81 = **150-1941**	18R2 = **150-1985**	47R5 = **150-2030**	124R = **150-2075**	309R = **150-2117**
6R98 = **150-1942**	18R7 = **150-1986**	48R7 = **150-2031**	127R = **150-2076**	316R = **150-2118**
7R5 = **150-1945**	19R1 = **150-1988**	49R9 = **150-2032**	130R = **150-2077**	324R = **150-2119**
7R68 = **150-1946**	19R6 = **150-1989**	51R1 = **150-2033**	133R = **150-2078**	332R = **150-2120**
7R87 = **150-1947**	20R = **150-1990**	52R3 = **150-2034**	137R = **150-2079**	340R = **150-2121**
8R06 = **150-1948**	20R5 = **150-1991**	53R6 = **150-2035**	140R = **150-2080**	348R = **150-2122**
8R25 = **150-1949**	21R = **150-1992**	54R9 = **150-2036**	143R = **150-2081**	357R = **150-2123**
8R45 = **150-1950**	21R5 = **150-1993**	56R2 = **150-2038**	147R = **150-2082**	365R = **150-2124**
8R66 = **150-1952**	22R1 = **150-1994**	57R6 = **150-2039**	150R = **150-2083**	374R = **150-2125**
8R87 = **150-1953**	22R6 = **150-1995**	59R = **150-2040**	154R = **150-2084**	383R = **150-2126**
9R09 = **150-1954**	23R7 = **150-1997**	60R4 = **150-2041**	158R = **150-2085**	392R = **150-2127**
9R31 = **150-1955**	24R3 = **150-1998**	61R9 = **150-2042**	162R = **150-2087**	402R = **150-2129**
9R53 = **150-1956**	24R9 = **150-2000**	63R4 = **150-2043**	165R = **150-2088**	422R = **150-2132**
9R76 = **150-1957**	25R5 = **150-2002**	64R9 = **150-2044**	169R = **150-2089**	432R = **150-2133**
10R = **150-1958**	26R1 = **150-2003**	66R5 = **150-2045**	174R = **150-2090**	442R = **150-2134**
10R2 = **150-1959**	26R7 = **150-2004**	68R1 = **150-2046**	178R = **150-2091**	453R = **150-2135**
10R5 = **150-1960**	27R4 = **150-2005**	69R8 = **150-2047**	182R = **150-2092**	464R = **150-2136**
10R7 = **150-1961**	28R = **150-2006**	71R5 = **150-2048**	187R = **150-2093**	475R = **150-2137**
11R = **150-1962**	28R7 = **150-2007**	75R = **150-2052**	191R = **150-2094**	487R = **150-2138**
11R3 = **150-1964**	29R4 = **150-2008**	76R8 = **150-2053**	196R = **150-2095**	499R = **150-2139**
11R5 = **150-1965**	30R1 = **150-2009**	78R7 = **150-2054**	200R = **150-2096**	511R = **150-2140**
11R8 = **150-1966**	30R9 = **150-2010**	80R6 = **150-2055**	205R = **150-2097**	523R = **150-2142**
12R1 = **150-1967**	31R6 = **150-2011**	82R5 = **150-2056**	210R = **150-2099**	536R = **150-2143**
12R4 = **150-1968**	32R4 = **150-2012**	84R5 = **150-2057**	215R = **150-2100**	549R = **150-2144**

576R = **150-2146**	2K26 = **150-2209**	8K87 = **150-2273**	34K8 = **150-2336**	133K = **150-2398**
590R = **150-2147**	2K32 = **150-2210**	9K09 = **150-2274**	35K7 = **150-2337**	137K = **150-2399**
604R = **150-2148**	2K37 = **150-2211**	9K31 = **150-2275**	36K5 = **150-2338**	140K = **150-2400**
619R = **150-2149**	2K43 = **150-2212**	9K53 = **150-2276**	37K4 = **150-2339**	143K = **150-2401**
634R = **150-2150**	2K49 = **150-2213**	9K76 = **150-2277**	38K3 = **150-2340**	147K = **150-2403**
649R = **150-2151**	2K55 = **150-2214**	10K = **150-2278**	39K2 = **150-2341**	150K = **150-2404**
665R = **150-2152**	2K61 = **150-2215**	10K2 = **150-2279**	40K2 = **150-2342**	154K = **150-2405**
681R = **150-2154**	2K67 = **150-2216**	10K5 = **150-2280**	41K2 = **150-2343**	158K = **150-2406**
698R = **150-2155**	2K74 = **150-2217**	10K7 = **150-2282**	42K2 = **150-2344**	162K = **150-2407**
715R = **150-2156**	2K8 = **150-2218**	11K = **150-2283**	43K2 = **150-2345**	165K = **150-2408**
732R = **150-2157**	2K87 = **150-2221**	11K3 = **150-2284**	44K2 = **150-2346**	169K = **150-2409**
750R = **150-2158**	2K94 = **150-2222**	11K5 = **150-2285**	45K3 = **150-2348**	174K = **150-2410**
768R = **150-2159**	3K01 = **150-2223**	11K8 = **150-2286**	46K4 = **150-2349**	178K = **150-2411**
787R = **150-2160**	3K09 = **150-2224**	12K1 = **150-2287**	47K5 = **150-2350**	182K = **150-2412**
806R = **150-2161**	3K16 = **150-2225**	12K4 = **150-2288**	48K7 = **150-2351**	187K = **150-2413**
825R = **150-2162**	3K24 = **150-2226**	12K7 = **150-2289**	49K9 = **150-2352**	191K = **150-2415**
845R = **150-2163**	3K32 = **150-2227**	13K = **150-2290**	51K1 = **150-2353**	196K = **150-2416**
866R = **150-2164**	3K4 = **150-2228**	13K3 = **150-2291**	52K3 = **150-2354**	200K = **150-2417**
887R = **150-2166**	3K48 = **150-2229**	13K7 = **150-2292**	53K6 = **150-2355**	205K = **150-2418**
909R = **150-2167**	3K57 = **150-2230**	14K = **150-2294**	54K9 = **150-2356**	210K = **150-2419**
931R = **150-2168**	3K65 = **150-2231**	14K3 = **150-2295**	56K2 = **150-2357**	215K = **150-2420**
953R = **150-2169**	3K74 = **150-2233**	14K7 = **150-2296**	57K6 = **150-2358**	221K = **150-2421**
976R = **150-2170**	3K83 = **150-2234**	15K = **150-2297**	59K = **150-2361**	226K = **150-2422**
1K = **150-2171**	3K92 = **150-2235**	15K4 = **150-2298**	60K4 = **150-2362**	232K = **150-2423**
1K02 = **150-2172**	4K02 = **150-2236**	15K8 = **150-2299**	61K9 = **150-2363**	237K = **150-2424**
1K05 = **150-2173**	4K12 = **150-2237**	16K2 = **150-2301**	63K4 = **150-2364**	243K = **150-2425**
1K07 = **150-2174**	4K22 = **150-2238**	16K5 = **150-2302**	64K9 = **150-2365**	249K = **150-2427**
1K1 = **150-2175**	4K32 = **150-2239**	16K9 = **150-2303**	66K5 = **150-2366**	255K = **150-2428**
1K13 = **150-2176**	4K42 = **150-2240**	17K4 = **150-2304**	68K1 = **150-2367**	261K = **150-2429**
1K15 = **150-2178**	4K53 = **150-2241**	17K8 = **150-2305**	69K8 = **150-2368**	267K = **150-2430**
1K18 = **150-2179**	4K64 = **150-2242**	18K2 = **150-2306**	71K5 = **150-2369**	274K = **150-2431**
1K24 = **150-2181**	4K75 = **150-2243**	18K7 = **150-2307**	73K2 = **150-2370**	280K = **150-2432**
1K27 = **150-2182**	4K87 = **150-2245**	19K1 = **150-2308**	75K = **150-2371**	287K = **150-2433**
1K3 = **150-2183**	4K99 = **150-2246**	19K6 = **150-2309**	76K8 = **150-2373**	294K = **150-2434**
1K33 = **150-2184**	5K11 = **150-2247**	20K = **150-2310**	78K7 = **150-2374**	301K = **150-2435**
1K37 = **150-2185**	5K23 = **150-2248**	20K5 = **150-2312**	80K6 = **150-2375**	309K = **150-2436**
1K4 = **150-2186**	5K36 = **150-2249**	21K = **150-2313**	82K5 = **150-2376**	316K = **150-2437**
1K43 = **150-2187**	5K49 = **150-2250**	21K5 = **150-2314**	84K5 = **150-2377**	324K = **150-2439**
1K47 = **150-2188**	5K62 = **150-2251**	22K1 = **150-2315**	86K6 = **150-2378**	332K = **150-2441**
1K5 = **150-2191**	5K76 = **150-2252**	22K6 = **150-2316**	88K7 = **150-2379**	340K = **150-2442**
1K54 = **150-2192**	5K9 = **150-2253**	23K2 = **150-2317**	90K9 = **150-2380**	348K = **150-2443**
1K58 = **150-2193**	6K04 = **150-2254**	23K7 = **150-2318**	93K1 = **150-2381**	357K = **150-2444**
1K62 = **150-2194**	6K19 = **150-2255**	24K3 = **150-2319**	95K3 = **150-2382**	365K = **150-2445**
1K65 = **150-2195**	6K34 = **150-2257**	24K9 = **150-2320**	97K6 = **150-2383**	374K = **150-2446**
1K69 = **150-2196**	6K49 = **150-2258**	25K5 = **150-2321**	100K = **150-2385**	383K = **150-2447**
1K74 = **150-2197**	6K65 = **150-2259**	26K1 = **150-2322**	102K = **150-2386**	392K = **150-2448**
1K78 = **150-2198**	6K81 = **150-2260**	26K7 = **150-2324**	105K = **150-2387**	402K = **150-2449**
1K82 = **150-2199**	6K98 = **150-2261**	27K4 = **150-2325**	107K = **150-2388**	412K = **150-2450**
1K87 = **150-2200**	7K32 = **150-2263**	28K = **150-2326**	110K = **150-2389**	422K = **150-2452**
1K91 = **150-2201**	7K5 = **150-2264**	28K7 = **150-2327**	113K = **150-2390**	432K = **150-2453**
1K96 = **150-2202**	7K68 = **150-2265**	29K4 = **150-2328**	115K = **150-2391**	442K = **150-2454**
2K = **150-2203**	7K87 = **150-2266**	30K1 = **150-2329**	118K = **150-2392**	453K = **150-2455**
2K05 = **150-2204**	8K06 = **150-2267**	31K6 = **150-2331**	121K = **150-2393**	464K = **150-2456**
2K1 = **150-2205**	8K25 = **150-2269**	32K4 = **150-2332**	124K = **150-2394**	475K = **150-2457**
2K15 = **150-2206**	8K45 = **150-2271**	33K2 = **150-2333**	127K = **150-2395**	487K = **150-2458**
2K21 = **150-2208**	8K66 = **150-2272**	34K = **150-2334**	130K = **150-2397**	499K = **150-2459**

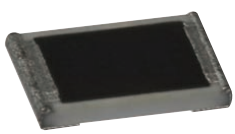
494121

5 Order Multiple=5	Price Each				
Order Code	5+	50+	100+	500+	1K+
All Values ●					

RP73P Series 0603 and 0805 Case

NEW

Tyco Electronics



Features
- Values down to R10
- Ideal for current detection
- Value marked on resistor

SMD

This thick film chip resistor for current sensing positions. It has a special metal glaze resistive element and a nickel barrier layer beneath the solder to prolong terminal life. Following the developments by semiconductor manufacturers in the production of a range of IC's for battery charge management and low voltage power supplies, the RP73P Series satisfies the demand for a low ohmic shunt resistor to act as a current sensor

Resistor Case Style	Power Rating	Voltage Rating	Resistance Tolerance	Temperature Coefficient
0603	166mW	100V	± 0.1%	± 25ppm/°C
0805	250mW	150V	± 0.1%	± 25ppm/°C

Resistance ohm	Order Code	Resistance		Resistance	
10R	211-6464	16R5	211-6488	28R	211-6513
10R2	211-6465	16R9	211-6489	28R7	211-6514
10R5	211-6466	17R4	211-6490	29R4	211-6515
10R7	211-6468	17R8	211-6491	30R1	211-6516
11R	211-6469	18R2	211-6493	30R9	211-6517
11R3	211-6470	18R7	211-6494	31R6	211-6518
11R5	211-6471	19R1	211-6495	32R4	211-6519
11R8	211-6472	19R6	211-6496	33R2	211-6520
12R1	211-6473	20R	211-6497	34R	211-6521
12R4	211-6474	20R5	211-6498	34R8	211-6523
12R7	211-6475	21R	211-6499	35R7	211-6524
13R	211-6476	21R5	211-6500	36R5	211-6525
13R3	211-6477	22R1	211-6501	37R4	211-6526
13R7	211-6478	22R6	211-6502	38R3	211-6527
14R	211-6481	23R2	211-6503	39R2	211-6528
14R3	211-6482	23R7	211-6504	40R2	211-6529
14R7	211-6483	24R3	211-6505	41R2	211-6530
15R	211-6484	24R9	211-6506	42R2	211-6531
15R4	211-6485	25R5	211-6507	43R2	211-6532
15R8	211-6486	26R1	211-6508	44R2	211-6533
16R2	211-6487	26R7	211-6511	45R3	211-6535
		27R4	211-6512	46R4	211-6536

RP73P Series 0603 and 0805 Case - continued

Resistance		Resistance		Resistance	
47R5	211-6537	549R	211-6651	6K34	211-6763
48R7	211-6538	562R	211-6652	6K49	211-6764
49R9	211-6539	576R	211-6653	6K65	211-6766
51R1	211-6540	590R	211-6654	6K81	211-6767
52R3	211-6541	604R	211-6655	6K98	211-6768
53R6	211-6542	619R	211-6656	7K15	211-6769
54R9	211-6543	634R	211-6657	7K32	211-6770
56R2	211-6544	649R	211-6658	7K5	211-6771
57R6	211-6545	665R	211-6659	7K68	211-6772
59R	211-6547	681R	211-6660	7K87	211-6773
60R4	211-6548	698R	211-6661	8K06	211-6774
61R9	211-6549	715R	211-6663	8K25	211-6775
63R4	211-6550	732R	211-6664	8K45	211-6776
64R9	211-6551	750R	211-6665	8K66	211-6778
66R5	211-6552	768R	211-6666	8K87	211-6779
68R1	211-6553	787R	211-6667	9K09	211-6780
69R8	211-6554	806R	211-6668	9K31	211-6781
71R5	211-6555	825R	211-6669	9K53	211-6782
73R2	211-6556	845R	211-6670	9K76	211-6783
75R	211-6557	866R	211-6671	10K	211-6784
76R8	211-6559	887R	211-6672	10K2	211-6785
78R7	211-6561	909R	211-6673	10K5	211-6786
80R6	211-6562	931R	211-6675	10K7	211-6787
82R5	211-6563	953R	211-6676	11K	211-6788
84R5	211-6564	976R	211-6677	11K3	211-6791
86R6	211-6565	1K	211-6678	11K5	211-6792
88R7	211-6566	1K02	211-6679	11K8	211-6793
90R9	211-6567	1K05	211-6680	12K1	211-6794
93R1	211-6568	1K07	211-6681	12K4	211-6795
95R3	211-6569	1K1	211-6682	12K7	211-6796
97R6	211-6570	1K13	211-6683	13K	211-6797
100R	211-6572	1K15	211-6684	13K3	211-6798
102R	211-6573	1K18	211-6685	13K7	211-6799
105R	211-6574	1K21	211-6687	14K	211-6800
107R	211-6575	1K24	211-6688	14K3	211-6801
110R	211-6576	1K27	211-6689	14K7	211-6802
113R	211-6577	1K3	211-6690	15K	211-6803
115R	211-6578	1K33	211-6691	15K4	211-6804
118R	211-6579	1K37	211-6692	15K8	211-6805
121R	211-6580	1K4	211-6693	16K2	211-6806
124R	211-6581	1K43	211-6694	16K5	211-6808
127R	211-6582	1K47	211-6695	16K9	211-6809
130R	211-6584	1K5	211-6696	17K4	211-6810
133R	211-6585	1K54	211-6697	17K8	211-6811
137R	211-6586	1K58	211-6699	18K2	211-6812
140R	211-6587	1K62	211-6700	18K7	211-6813
143R	211-6588	1K65	211-6701	19K1	211-6814
147R	211-6589	1K69	211-6702	19K6	211-6815
150R	211-6590	1K74	211-6703	20K	211-6816
154R	211-6591	1K78	211-6705	20K5	211-6817
158R	211-6592	1K82	211-6706	21K	211-6818
162R	211-6593	1K87	211-6707	21K5	211-6821
165R	211-6594	1K91	211-6708	22K1	211-6822
169R	211-6596	1K96	211-6709	22K6	211-6823
174R	211-6597	2K	211-6710	23K2	211-6824
178R	211-6598	2K05	211-6711	23K7	211-6825
182R	211-6599	2K1	211-6712	24K3	211-6826
187R	211-6600	2K15	211-6713	24K9	211-6827
191R	211-6602	2K21	211-6714	25K5	211-6828
196R	211-6603	2K26	211-6715	26K1	211-6829
200R	211-6604	2K32	211-6717	26K7	211-6830
205R	211-6605	2K37	211-6718	27K4	211-6831
210R	211-6606	2K43	211-6719	28K	211-6833
215R	211-6607	2K49	211-6720	28K7	211-6834
221R	211-6608	2K55	211-6721	29K4	211-6835
226R	211-6609	2K61	211-6722	30K1	211-6836
232R	211-6610	2K67	211-6723	30K9	211-6837
237R	211-6611	2K74	211-6724	31K6	211-6838
243R	211-6612	2K8	211-6725	32K4	211-6839
249R	211-6614	2K87	211-6726	33K2	211-6840
255R	211-6615	2K94	211-6727	34K	211-6841
261R	211-6616	3K01	211-6729	34K8	211-6842
267R	211-6617	3K09	211-6731	35K7	211-6843
274R	211-6618	3K16	211-6732	36K5	211-6845
280R	211-6619	3K24	211-6733	37K4	211-6846
287R	211-6620	3K32	211-6734	38K3	211-6847
294R	211-6621	3K4	211-6735	39K2	211-6848
301R	211-6622	3K48	211-6736	40K2	211-6849
309R	211-6623	3K57	211-6737	41K2	211-6850
316R	211-6624	3K65	211-6738	42K2	211-6851
324R	211-6626	3K74	211-6739	43K2	211-6852
332R	211-6627	3K83	211-6740	44K2	211-6853
340R	211-6628	3K92	211-6742	45K3	211-6854
348R	211-6629	4K02	211-6743	46K4	211-6855
357R	211-6630	4K12	211-6744	47K5	211-6857
365R	211-6631	4K22	211-6745	48K7	211-6858
374R	211-6632	4K32	211-6746	49K9	211-6859
383R	211-6633	4K42	211-6747	51K1	211-6860
392R	211-6634	4K53	211-6748	52K3	211-6861
402R	211-6635	4K64	211-6749	53K6	211-6862
412R	211-6636	4K75	211-6750	54K9	211-6863
422R	211-6638	4K87	211-6751	56K2	211-6864
432R	211-6639	4K99	211-6752	57K6	211-6865
442R	211-6640	5K11	211-6754	59K	211-6866
453R	211-6641	5K23	211-6755	60K4	211-6867
464R	211-6642	5K36	211-6756	61K9	211-6869
475R	211-6643	5K49	211-6757	63K4	211-6871
487R	211-6644	5K62	211-6758	64K9	211-6872
499R	211-6645	5K76	211-6759	66K5	211-6873
511R	211-6646	5K9	211-6760	68K1	211-6874
523R	211-6647	6K04	211-6761	69K8	211-6875
536R	211-6648	6K19	211-6762	71K5	211-6876

Resistance		Resistance		Resistance	
73K2	211-6877	28R	211-6995	365R	211-7115
75K	211-6878	28R7	211-6997	374R	211-7116
76K8	211-6879	29R4	211-6998	383R	211-7117
78K7	211-6880	30R1	211-6999	392R	211-7118
80K6	211-6882	30R9	211-7000	402R	211-7119
82K5	211-6883	31R6	211-7001	412R	211-7120
84K5	211-6884	32R4	211-7002	422R	211-7121
86K6	211-6885	33R2	211-7003	432R	211-7122
88K7	211-6886	34R	211-7004	442R	211-7123
90K9	211-6887	34R8	211-7005	453R	211-7124
93K1	211-6888	35R7	211-7006	464R	211-7126
95K3	211-6889	36R5	211-7007	475R	211-7127
97K6	211-6890	37R4	211-7008	487R	211-7128
100K	211-6891	38R3	211-7011	499R	211-7129
102K	211-6892	39R2	211-7012	511R	211-7130
105K	211-6894	40R2	211-7013	523R	211-7131
107K	211-6895	41R2	211-7014	536R	211-7132
110K	211-6896	42R2	211-7015	549R	211-7133
113K	211-6897	43R2	211-7016	562R	211-7134
115K	211-6898	44R2	211-7017	576R	211-7135
118K	211-6899	45R3	211-7018	590R	211-7136
121K	211-6901	46R4	211-7019	604R	211-7138
124K	211-6902	47R5	211-7020	619R	211-7139
127K	211-6903	48R7	211-7021	634R	211-7140
130K	211-6904	49R9	211-7023	649R	211-7141
133K	211-6905	51R1	211-7024	665R	211-7142
137K	211-6906	52R3	211-7025	681R	211-7143
140K	211-6907	53R6	211-7026	698R	211-7144
143K	211-6908	54R9	211-7027	715R	211-7145
147K	211-6909	56R2	211-7028	732R	211-7146
150K	211-6910	57R6	211-7029	750R	211-7147
154K	211-6912	59R	211-7030	768R	211-7148
158K	211-6913	60R4	211-7031	787R	211-7151
162K	211-6914	61R9	211-7032	806R	211-7152
165K	211-6915	63R4	211-7033	825R	211-7153
169K	211-6916	64R9	211-7035	845R	211-7154
174K	211-6917	66R5	211-7036	866R	211-7155
178K	211-6918	68R1	211-7037	887R	211-7156
182K	211-6919	69R8	211-7038	909R	211-7157
187K	211-6920	71R5	211-7039	931R	211-7158
191K	211-6921	73R2	211-7040	953R	211-7159
196K	211-6922	75R	211-7041	976R	211-7160
200K	211-6924	76R8	211-7042	1K	211-7161
205K	211-6925	78R7	211-7043	1K02	211-7163
210K	211-6926	80R6	211-7044	1K05	211-7164
215K	211-6927	82R5	211-7045	1K07	211-7165
221K	211-6928	84R5	211-7047	1K1	211-7166
226K	211-6929	86R6	211-7048	1K13	211-7167
232K	211-6930	88R7	211-7049	1K15	211-7168
237K	211-6931	90R9	211-7050	1K18	211-7169
243K	211-6932	93R1	211-7051	1K21	211-7170
249K	211-6933	95R3	211-7052	1K24	211-7171
255K	211-6934	97R6	211-7053	1K27	211-7172
261K	211-6936	100R	211-7054	1K3	211-7173
267K	211-6937	102R	211-7055	1K33	211-7175
274K	211-6938	105R	211-7056	1K37	211-7176
280K	211-6939	107R	211-7057	1K4	211-7177
287K	211-6940	110R	211-7059	1K43	211-7178
294K	211-6941	113R	211-7061	1K47	211-7179
301K	211-6942	115R	211-7062	1K5	211-7180
309K	211-6943	118R	211-7063	1K54	211-7181
316K	211-6944	121R	211-7064	1K58	211-7182
324K	211-6945	124R	211-7065	1K62	211-7183
332K	211-6946	127R	211-7066	1K65	211-7184
10R	211-6948	130R	211-7067	1K69	211-7185
10R2	211-6949	133R	211-7068	1K74	211-7187
10R5	211-6950	137R	211-7069	1K78	211-7188
10R7	211-6951	140R	211-7070	1K82	211-7189
11R	211-6952	143R	211-7072	1K87	211-7190
11R3	211-6953	147R	211-7073	1K91	211-7191
11R5	211-6954	150R	211-7074	1K96	211-7192
11R8	211-6955	154R	211-7075	2K	211-7193
12R1	211-6956	158R	211-7076	2K05	211-7194
12R4	211-6957	162R	211-7077	2K1	211-7195
12R7	211-6958	165R	211-7078	2K15	211-7196
13R	211-6961	169R	211-7079	2K21	211-7197
13R3	211-6962	174R	211-7080	2K26	211-7199
13R7	211-6963	178R	211-7081	2K32	211-7200
14R	211-6964	182R	211-7082	2K37	211-7201
14R3	211-6965	187R	211-7084	2K43	211-7202
14R7	211-6966	191R	211-7085	2K49	211-7203
15R	211-6967	196R	211-7086	2K55	211-7205
15R4	211-6968	200R	211-7087	2K61	211-7206
15R8	211-6969	205R	211-7088	2K67	211-7207
16R2	211-6970	210R	211-7089	2K74	211-7208
16R5	211-6971	215R	211-7090	2K8	211-7209
16R9	211-6973	221R	211-7091	2K87	211-7210
17R4	211-6974	226R	211-7092	2K94	211-7211
17R8	211-6975	232R	211-7093	3K01	211-7212
18R2	211-6976	237R	211-7094	3K09	211-7213
18R7	211-6977	243R	211-7096	3K16	211-7214
19R1	211-6978	249R	211-7097	3K24	211-7215
19R6	211-6979	255R	211-7098	3K32	211-7217
20R	211-6980	261R	211-7099	3K4	211-7218
20R5	211-6981	267R	211-7100	3K48	211-7219
21R	211-6982	274R	211-7102	3K57	211-7220
21R5	211-6983	280R	211-7103	3K65	211-7221
22R1	211-6985	287R	211-7104	3K74	211-7222
22R6	211-6986	294R	211-7105	3K83	211-7223
23R2	211-6987	301R	211-7106	3K92	211-7224
23R7	211-6988	309R	211-7107	4K02	211-7225
24R3	211-6989	316R	211-7108	4K12	211-7226
24R9	211-6990	324R	211-7109	4K22	211-7227
25R5	211-6991	332R	211-7110	4K32	211-7229
26R1	211-6992	340R	211-7111	4K42	211-7231
26R7	211-6993	348R	211-7112	4K53	211-7232
27R4	211-6994	357R	211-7114	4K64	211-7233

RoHS Compliant / Non-compliant

Resistance		Resistance		Resistance	
4K75	211-7234	22K6	211-7305	107K	211-7378
4K87	211-7235	23K2	211-7306	110K	211-7379
4K99	211-7236	23K7	211-7308	113K	211-7380
5K11	211-7237	24K3	211-7309	115K	211-7382
5K23	211-7238	24K9	211-7310	118K	211-7383
5K36	211-7239	25K5	211-7311	121K	211-7384
5K49	211-7240	26K1	211-7312	124K	211-7385
5K62	211-7242	26K7	211-7313	127K	211-7386
5K76	211-7243	27K4	211-7314	130K	211-7387
5K9	211-7244	28K	211-7315	133K	211-7388
6K04	211-7245	28K7	211-7316	137K	211-7389
6K19	211-7246	29K4	211-7317	140K	211-7390
6K34	211-7247	30K1	211-7318	143K	211-7391
6K49	211-7248	30K9	211-7321	147K	211-7392
6K65	211-7249	31K6	211-7322	150K	211-7394
6K81	211-7250	32K4	211-7323	154K	211-7395
6K98	211-7251	33K2	211-7324	158K	211-7396
7K15	211-7252	34K	211-7325	162K	211-7397
7K32	211-7254	34K8	211-7326	165K	211-7398
7K5	211-7255	35K7	211-7327	169K	211-7399
7K68	211-7256	36K5	211-7328	174K	211-7401
7K87	211-7257	37K4	211-7329	178K	211-7402
8K06	211-7258	38K3	211-7330	182K	211-7403
8K25	211-7259	39K2	211-7331	187K	211-7404
8K45	211-7260	40K2	211-7333	191K	211-7405
8K66	211-7261	41K2	211-7334	196K	211-7406
8K87	211-7262	42K2	211-7335	200K	211-7407
9K09	211-7263	43K2	211-7336	205K	211-7408
9K31	211-7264	44K2	211-7337	210K	211-7409
9K53	211-7266	45K3	211-7338	215K	211-7410
9K76	211-7267	46K4	211-7339	221K	211-7412
10K	211-7268	47K5	211-7340	226K	211-7413
10K2	211-7269	48K7	211-7341	232K	211-7414
10K5	211-7270	49K9	211-7342	237K	211-7415
10K7	211-7271	51K1	211-7343	243K	211-7416
11K	211-7272	52K3	211-7345	249K	211-7417
11K3	211-7273	53K6	211-7346	255K	211-7418
11K5	211-7274	54K9	211-7347	261K	211-7419
11K8	211-7275	56K2	211-7348	267K	211-7420
12K1	211-7276	57K6	211-7349	274K	211-7421
12K4	211-7278	59K	211-7350	280K	211-7422
12K7	211-7279	60K4	211-7351	287K	211-7424
13K	211-7280	61K9	211-7352	294K	211-7425
13K3	211-7281	63K4	211-7353	301K	211-7426
13K7	211-7282	64K9	211-7354	309K	211-7427
14K	211-7283	66K5	211-7355	316K	211-7428
14K3	211-7284	68K1	211-7357	324K	211-7429
14K7	211-7285	69K8	211-7358	332K	211-7430
15K	211-7286	71K5	211-7359	340K	211-7431
15K4	211-7287	73K2	211-7360	348K	211-7432
15K8	211-7288	75K	211-7361	357K	211-7433
16K2	211-7291	76K8	211-7362	365K	211-7434
16K5	211-7292	78K7	211-7363	374K	211-7436
16K9	211-7293	80K6	211-7364	383K	211-7437
17K4	211-7294	82K5	211-7365	392K	211-7438
17K8	211-7295	84K5	211-7366	402K	211-7439
18K2	211-7296	86K6	211-7367	412K	211-7440
18K7	211-7297	88K7	211-7369	422K	211-7441
19K1	211-7298	90K9	211-7371	432K	211-7442
19K6	211-7299	93K1	211-7372	442K	211-7443
20K	211-7300	95K3	211-7373	453K	211-7444
20K5	211-7301	97K6	211-7374	464K	211-7445
21K	211-7302	100K	211-7375	475K	211-7446
21K5	211-7303	102K	211-7376	487K	211-7448
22K1	211-7304	105K	211-7377	499K	211-7449

660483

Order Code	Price Each 5+	50+	250+	1K+	2K+
All Values					

MCTC05 Series - ±0.1%

- High precision resistors in 0805 case
- Close tolerance ±0.1%
- Industry standard ±25ppm/°C

Power rating	100mW
Operating temperature	-55°C to +155°C
Temperature coefficient	± 25ppm/°C
Max. working voltage	100V
Max. overload voltage	200V
Resistance tolerance	± 0.1%

Stocked in the following OHMIC Values

10R = **157-5376**	16R2 = **157-5412**	26R1 = **157-5453**	42R2 = **157-5496**	68R1 = **157-5548**
10R2 = **157-5379**	16R5 = **157-5415**	26R7 = **157-5455**	43R2 = **157-5498**	69R8 = **157-5549**
10R5 = **157-5380**	16R9 = **157-5418**	27R4 = **157-5456**	44R2 = **157-5500**	71R5 = **157-5550**
10R7 = **157-5381**	17R4 = **157-5420**	28R = **157-5457**	45R3 = **157-5502**	73R2 = **157-5551**
11R = **157-5382**	17R8 = **157-5423**	28R7 = **157-5459**	46R4 = **157-5505**	75R = **157-5552**
11R3 = **157-5383**	18R2 = **157-5426**	29R4 = **157-5461**	47R5 = **157-5509**	76R8 = **157-5553**
11R5 = **157-5386**	18R7 = **157-5431**	30R1 = **157-5463**	48R7 = **157-5512**	78R7 = **157-5555**
11R8 = **157-5388**	19R1 = **157-5434**	30R9 = **157-5464**	49R9 = **157-5515**	80R6 = **157-5556**
12R1 = **157-5389**	19R6 = **157-5436**	31R6 = **157-5465**	51R1 = **157-5517**	82R5 = **157-5558**
12R4 = **157-5391**	20R = **157-5439**	32R4 = **157-5468**	52R3 = **157-5520**	84R5 = **157-5561**
12R7 = **157-5392**	20R5 = **157-5440**	33R2 = **157-5470**	53R6 = **157-5523**	86R6 = **157-5563**
13R = **157-5393**	21R = **157-5441**	34R = **157-5473**	54R9 = **157-5525**	88R7 = **157-5564**
13R3 = **157-5394**	21R5 = **157-5443**	34R8 = **157-5476**	56R2 = **157-5528**	90R9 = **157-5566**
13R7 = **157-5396**	22R1 = **157-5444**	35R7 = **157-5479**	57R6 = **157-5529**	93R1 = **157-5568**
14R = **157-5398**	22R6 = **157-5445**	36R5 = **157-5482**	59R = **157-5530**	95R3 = **157-5571**
14R3 = **157-5400**	23R2 = **157-5446**	37R4 = **157-5485**	60R4 = **157-5534**	97R6 = **157-5572**
14R7 = **157-5403**	23R7 = **157-5447**	38R3 = **157-5486**	61R9 = **157-5536**	100R = **157-5573**
15R = **157-5406**	24R3 = **157-5449**	39R2 = **157-5487**	63R4 = **157-5539**	102R = **157-5575**
15R4 = **157-5408**	24R9 = **157-5450**	40R2 = **157-5492**	64R9 = **157-5541**	105R = **157-5577**
15R8 = **157-5411**	25R5 = **157-5451**	41R2 = **157-5494**	66R5 = **157-5544**	107R = **157-5578**
110R = **157-5581**	681R = **157-5751**	4K32 = **157-5861**	26K7 = **157-5952**	162K = **157-6039**
113R = **157-5585**	698R = **157-5755**	4K42 = **157-5862**	27K4 = **157-5953**	165K = **157-6040**
115R = **157-5587**	715R = **157-5758**	4K53 = **157-5863**	28K = **157-5954**	169K = **157-6041**
118R = **157-5589**	732R = **157-5760**	4K64 = **157-5864**	28K7 = **157-5955**	174K = **157-6042**
121R = **157-5591**	750R = **157-5762**	4K75 = **157-5865**	29K4 = **157-5956**	178K = **157-6043**
124R = **157-5593**	768R = **157-5765**	4K87 = **157-5866**	30K1 = **157-5957**	182K = **157-6044**
127R = **157-5596**	787R = **157-5768**	4K99 = **157-5868**	30K9 = **157-5959**	187K = **157-6046**
130R = **157-5601**	806R = **157-5771**	5K11 = **157-5869**	31K6 = **157-5961**	191K = **157-6047**
133R = **157-5603**	825R = **157-5774**	5K23 = **157-5870**	32K4 = **157-5962**	196K = **157-6048**
137R = **157-5605**	845R = **157-5775**	5K36 = **157-5871**	33K2 = **157-5963**	200K = **157-6049**
140R = **157-5608**	866R = **157-5779**	5K49 = **157-5872**	34K = **157-5964**	205K = **157-6050**
143R = **157-5610**	887R = **157-5781**	5K62 = **157-5873**	34K8 = **157-5965**	210K = **157-6051**
147R = **157-5613**	909R = **157-5782**	5K76 = **157-5874**	35K7 = **157-5966**	215K = **157-6052**
150R = **157-5616**	931R = **157-5784**	5K9 = **157-5875**	36K5 = **157-5967**	221K = **157-6053**
154R = **157-5618**	953R = **157-5785**	6K04 = **157-5876**	37K4 = **157-5968**	226K = **157-6054**
158R = **157-5621**	976R = **157-5789**	6K19 = **157-5877**	38K3 = **157-5969**	232K = **157-6055**
162R = **157-5623**	1K = **157-5792**	6K34 = **157-5878**	39K2 = **157-5970**	237K = **157-6056**
165R = **157-5627**	1K02 = **157-5794**	6K49 = **157-5881**	40K2 = **157-5972**	243K = **157-6059**
169R = **157-5629**	1K05 = **157-5796**	6K65 = **157-5882**	41K2 = **157-5973**	249K = **157-6060**
174R = **157-5631**	1K07 = **157-5797**	6K81 = **157-5883**	42K2 = **157-5974**	255K = **157-6061**
178R = **157-5633**	1K1 = **157-5798**	6K98 = **157-5884**	43K2 = **157-5975**	261K = **157-6062**
182R = **157-5635**	1K13 = **157-5799**	7K15 = **157-5885**	44K2 = **157-5976**	267K = **157-6063**
187R = **157-5639**	1K15 = **157-5800**	7K32 = **157-5886**	45K3 = **157-5977**	274K = **157-6064**
191R = **157-5642**	1K18 = **157-5801**	7K5 = **157-5887**	46K4 = **157-5978**	280K = **157-6065**
196R = **157-5644**	1K21 = **157-5802**	7K68 = **157-5888**	47K5 = **157-5979**	287K = **157-6066**
200R = **157-5647**	1K24 = **157-5803**	7K87 = **157-5889**	48K7 = **157-5980**	294K = **157-6067**
205R = **157-5651**	1K27 = **157-5804**	8K06 = **157-5890**	49K9 = **157-5981**	301K = **157-6068**
210R = **157-5654**	1K3 = **157-5805**	8K25 = **157-5891**	51K1 = **157-5982**	309K = **157-6071**
215R = **157-5655**	1K33 = **157-5807**	8K45 = **157-5893**	52K3 = **157-5984**	316K = **157-6073**
221R = **157-5657**	1K37 = **157-5808**	8K66 = **157-5894**	53K6 = **157-5985**	324K = **157-6074**
226R = **157-5660**	1K4 = **157-5809**	8K87 = **157-5895**	54K9 = **157-5986**	332K = **157-6075**
232R = **157-5663**	1K43 = **157-5810**	9K09 = **157-5896**	56K2 = **157-5987**	340K = **157-6076**
237R = **157-5665**	1K47 = **157-5811**	9K31 = **157-5897**	57K6 = **157-5988**	348K = **157-6077**
243R = **157-5668**	1K5 = **157-5812**	9K53 = **157-5898**	59K = **157-5989**	357K = **157-6078**
249R = **157-5671**	1K54 = **157-5813**	9K76 = **157-5899**	60K4 = **157-5990**	365K = **157-6079**
255R = **157-5674**	1K58 = **157-5814**	10K = **157-5900**	61K9 = **157-5991**	374K = **157-6080**
261R = **157-5679**	1K62 = **157-5815**	10K2 = **157-5901**	63K4 = **157-5992**	383K = **157-6081**
267R = **157-5681**	1K65 = **157-5816**	10K5 = **157-5902**	64K9 = **157-5993**	392K = **157-6083**
274R = **157-5683**	1K69 = **157-5817**	10K7 = **157-5903**	66K5 = **157-5994**	402K = **157-6084**
280R = **157-5684**	1K74 = **157-5819**	11K = **157-5904**	68K1 = **157-5996**	412K = **157-6085**
287R = **157-5688**	1K78 = **157-5821**	11K3 = **157-5905**	69K8 = **157-5997**	432K = **157-6086**
294R = **157-5689**	1K82 = **157-5822**	11K5 = **157-5906**	71K5 = **157-5998**	442K = **157-6087**
301R = **157-5690**	1K87 = **157-5823**	11K8 = **157-5907**	73K2 = **157-5999**	453K = **157-6088**
309R = **157-5691**	1K91 = **157-5824**	12K1 = **157-5911**	75K = **157-6000**	464K = **157-6089**
316R = **157-5692**	1K96 = **157-5825**	12K4 = **157-5913**	76K8 = **157-6001**	475K = **157-6090**
324R = **157-5693**	2K = **157-5826**	12K7 = **157-5914**	78K7 = **157-6002**	487K = **157-6091**
332R = **157-5694**	2K05 = **157-5827**	13K = **157-5915**	80K6 = **157-6003**	499K = **157-6092**
340R = **157-5695**	2K1 = **157-5828**	13K3 = **157-5916**	82K5 = **157-6004**	511K = **157-6093**
348R = **157-5696**	2K15 = **157-5829**	13K7 = **157-5917**	84K5 = **157-6005**	523K = **157-6095**
357R = **157-5698**	2K21 = **157-5830**	14K = **157-5918**	86K6 = **157-6006**	536K = **157-6096**
365R = **157-5699**	2K26 = **157-5832**	14K3 = **157-5919**	88K7 = **157-6007**	549K = **157-6098**
374R = **157-5701**	2K32 = **157-5833**	14K7 = **157-5920**	90K9 = **157-6009**	562K = **157-6099**
383R = **157-5702**	2K37 = **157-5834**	15K = **157-5921**	93K1 = **157-6011**	576K = **157-6101**
392R = **157-5704**	2K43 = **157-5835**	15K4 = **157-5923**	95K3 = **157-6012**	590K = **157-6102**
402R = **157-5705**	2K49 = **157-5836**	15K8 = **157-5925**	97K6 = **157-6013**	604K = **157-6103**
412R = **157-5706**	2K55 = **157-5837**	16K2 = **157-5926**	100K = **157-6014**	619K = **157-6104**
422R = **157-5707**	2K61 = **157-5838**	16K5 = **157-5927**	102K = **157-6015**	634K = **157-6105**
432R = **157-5708**	2K67 = **157-5840**	16K9 = **157-5929**	105K = **157-6016**	649K = **157-6106**
442R = **157-5709**	2K74 = **157-5841**	17K4 = **157-5930**	107K = **157-6017**	665K = **157-6107**
453R = **157-5710**	2K8 = **157-5842**	17K8 = **157-5931**	110K = **157-6018**	681K = **157-6108**
464R = **157-5712**	2K87 = **157-5844**	18K2 = **157-5932**	113K = **157-6019**	698K = **157-6109**
475R = **157-5713**	2K94 = **157-5845**	18K7 = **157-5933**	115K = **157-6022**	715K = **157-6110**
487R = **157-5714**	3K01 = **157-5846**	19K1 = **157-5935**	118K = **157-6023**	732K = **157-6111**
499R = **157-5716**	3K09 = **157-5847**	19K6 = **157-5936**	121K = **157-6024**	750K = **157-6113**
511R = **157-5717**	3K16 = **157-5848**	20K = **157-5937**	124K = **157-6025**	768K = **157-6114**
523R = **157-5719**	3K24 = **157-5849**	20K5 = **157-5938**	127K = **157-6027**	787K = **157-6115**
536R = **157-5722**	3K32 = **157-5850**	21K = **157-5939**	130K = **157-6028**	806K = **157-6116**
549R = **157-5725**	3K4 = **157-5851**	21K5 = **157-5940**	133K = **157-6029**	825K = **157-6117**
562R = **157-5729**	3K57 = **157-5852**	22K1 = **157-5941**	137K = **157-6031**	845K = **157-6118**
576R = **157-5731**	3K65 = **157-5853**	22K6 = **157-5943**	140K = **157-6032**	866K = **157-6119**
590R = **157-5734**	3K74 = **157-5854**	23K2 = **157-5944**	143K = **157-6034**	887K = **157-6120**
604R = **157-5736**	3K83 = **157-5856**	23K7 = **157-5945**	147K = **157-6035**	909K = **157-6122**
619R = **157-5741**	3K92 = **157-5857**	24K3 = **157-5948**	150K = **157-6036**	931K = **157-6123**
634R = **157-5743**	4K02 = **157-5858**	24K9 = **157-5949**	154K = **157-6037**	953K = **157-6125**
649R = **157-5746**	4K12 = **157-5859**	25K5 = **157-5950**	158K = **157-6038**	976K = **157-6127**
665R = **157-5749**	4K22 = **157-5860**	26K1 = **157-5951**		

508887

Order Code	Price Each 5+	50+	100+	500+	1K+
All Values					

ERA Series

± 25ppm/°C, ± 0.1% tolerance

- High reliability - Stable at high temperature and humidity
- High accuracy - Small resistance tolerance and Temperature Coeffi cient of Resistance
- High performance - Low current noise, excellent non-linearity
- AECQ-200 Automotive Approved

Series	Case Style	Power Rating	Tolerance	Temperature Coefficient	Temperature Range
ERA2	0402	63mW	± 0.1%	± 25ppm/°C	-55°C to +155°C
ERA3	0603	100mW	± 0.1%	± 25ppm/°C	-55°C to +155°C
ERA6	0805	125mW	± 0.1%	± 25ppm/°C	-55°C to +155°C
ERA8	1206	250mW	± 0.1%	± 25ppm/°C	-55°C to +155°C

0402 Case Size

Stocked in the following OHMIC Values:

47R = **157-7701**	220R = **157-7705**	1K = **157-7710**	4K7 = **157-7715**	22K = **157-7719**
68R = **157-7702**	330R = **157-7706**	1K5 = **157-7711**	6K8 = **157-7716**	33K = **157-7720**
100R = **157-7703**	470R = **157-7707**	2K2 = **157-7713**	10K = **157-7717**	68K = **157-7722**
150R = **157-7704**	680R = **157-7708**	3K3 = **157-7714**	15K = **157-7718**	100K = **157-7723**

ERA Series - continued

± 25ppm/°C, ± 0.1% tolerance - continued

Order Code	Price Each 5+	50+	100+	500+	1K+
All Values ●					

0603 Case Size

Stocked in the following OHMIC Values:

47R = 157-7588
47R5 = 180-9603
48R7 = 180-9604
49R9 = 180-9605
51R = 167-0159
51R1 = 180-9606
52R3 = 180-9607
53R6 = 180-9608
54R9 = 180-9609
56R = 157-7589
56R2 = 180-9610
57R6 = 180-9612
59R = 180-9613
60R4 = 180-9614
61R9 = 180-9615
62R = 167-0160
63R4 = 180-9616
64R9 = 180-9617
66R5 = 180-9618
68R = 157-7590
68R1 = 180-9619
69R8 = 180-9620
71R5 = 180-9621
73R2 = 180-9622
75R = 167-0161
76R8 = 180-9624
78R7 = 180-9625
80R6 = 180-9626
82R = 157-7592
82R5 = 180-9627
84R5 = 180-9628
86R6 = 180-9629
88R7 = 180-9630
90R9 = 180-9631
91R = 167-0162
93R1 = 180-9632
95R3 = 180-9633
97R6 = 180-9634
100R = 157-7593
102R = 180-9636
105R = 180-9637
107R = 180-9638
110R = 167-0163
113R = 180-9639
115R = 180-9640
118R = 180-9641
120R = 157-7594
121R = 180-9642
124R = 180-9643
127R = 180-9644
130R = 167-0164
133R = 180-9645
137R = 180-9646
140R = 180-9648
143R = 180-9649
147R = 180-9650
150R = 157-7595
154R = 180-9651
158R = 180-9652
160R = 167-0166
162R = 180-9653
165R = 180-9654
169R = 180-9655
174R = 180-9656
178R = 180-9657
180R = 157-7596
182R = 180-9658
187R = 180-9661
191R = 180-9662
196R = 180-9663
200R = 167-0167
205R = 180-9664
210R = 180-9665
215R = 180-9666
220R = 157-7597
221R = 180-9667
226R = 180-9668
232R = 180-9669
237R = 180-9670
240R = 167-0168
243R = 180-9671
249R = 180-9673
255R = 180-9674
261R = 180-9675
267R = 180-9676
270R = 157-7598
274R = 180-9677
280R = 180-9678
287R = 180-9679
294R = 180-9680
300R = 167-0169
301R = 180-9681
309R = 180-9682
316R = 180-9683
324R = 180-9685
330R = 157-7599
332R = 180-9686
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2K49 = 181-0540
2K55 = 181-0541
2K61 = 181-0542
2K67 = 181-0543
2K7 = 157-7664
2K7 = 171-7635
2K7 = 171-7712
2K74 = 181-0544
2K8 = 181-0545
2K87 = 181-0547
2K94 = 181-0548
3K = 167-0234
3K = 171-7636
3K = 189-2863
3K01 = 181-0549
3K09 = 181-0550
3K16 = 181-0551
3K24 = 181-0552
3K3 = 157-7665
3K3 = 171-7638
3K3 = 171-7713
3K32 = 181-0553
3K4 = 181-0554
3K48 = 181-0555
3K57 = 181-0556
3K6 = 167-0235
3K6 = 171-7639
3K6 = 189-2864
3K65 = 181-0557
3K74 = 181-0559
3K83 = 181-0561
3K9 = 157-7666
3K9 = 171-7640
3K9 = 171-7714
3K92 = 181-0562
4K02 = 181-0563
4K12 = 181-0564
4K22 = 181-0565
4K3 = 167-0236

RoHS ● Compliant ▲ Non-compliant

4K3 = 171-7641	19K1 = 181-0629	82K = 157-7685	590K = 181-0780	26K7 = 209-4758
4K3 = 189-2865	19K6 = 181-0630	82K = 171-7676	604K = 181-0781	27K4 = 209-4760
4K32 = 181-0566	20K = 167-0245	82K = 171-7733	619K = 181-0782	28K = 209-4762
4K42 = 181-0567	20K = 171-7659	82K5 = 181-0694	620K = 167-0264	28K7 = 209-4764
4K53 = 181-0568	20K = 189-2874	84K5 = 181-0695	634K = 181-0783	29K4 = 209-4766
4K64 = 181-0569	20K5 = 181-0631	86K6 = 181-0696	649K = 181-0784	3K01 = 209-4767
4K7 = 157-7667	21K = 181-0632	88K7 = 181-0697	665K = 181-0785	3K09 = 209-4771
4K7 = 171-7642	21K5 = 181-0633	90K9 = 181-0699	680K = 157-7697	3K16 = 209-4773
4K7 = 171-7715	22K = 157-7677	91K = 167-0253	681K = 181-0786	3K24 = 209-4775
4K75 = 181-0570	22K = 171-7660	91K = 171-7677	698K = 181-0787	3K32 = 209-4777
4K87 = 181-0572	22K = 171-7724	91K = 189-2882	715K = 181-0788	3K4 = 209-4779
4K99 = 181-0573	22K1 = 181-0634	93K1 = 181-0700	732K = 181-0791	3K48 = 209-4781
5K1 = 167-0237	22K6 = 181-0635	95K3 = 181-0701	750K = 167-0265	3K57 = 209-4784
5K1 = 171-7643	23K2 = 181-0636	97K6 = 181-0702	768K = 181-0792	3K65 = 209-4786
5K1 = 189-2866	23K7 = 181-0638	100K = 157-7686	787K = 181-0793	3K74 = 209-4788
5K11 = 181-0574	24K = 167-0246	100K = 171-7678	806K = 181-0794	3K83 = 209-4790
5K23 = 181-0575	24K = 171-7661	100K = 171-7734	820K = 157-7698	3K92 = 209-4792
5K36 = 181-0576	24K = 189-2875	102K = 181-0703	825K = 181-0795	30K1 = 209-4768
5K49 = 181-0577	24K3 = 181-0639	105K = 181-0705	845K = 181-0796	30K9 = 209-4772
5K6 = 157-7668	24K9 = 181-0640	107K = 181-0706	866K = 181-0797	31K6 = 209-4774
5K6 = 171-7644	25K5 = 181-0641	110K = 167-0254	887K = 181-0798	32K4 = 209-4776
5K6 = 171-7717	26K1 = 181-0642	113K = 181-0707	909K = 181-0799	33K2 = 209-4778
5K62 = 181-0578	26K7 = 181-0643	115K = 181-0708	910K = 167-0266	34K = 209-4780
5K76 = 181-0579	27K = 157-7678	118K = 181-0709	931K = 181-0800	34K8 = 209-4783
5K9 = 181-0580	27K = 171-7663	120K = 157-7687	953K = 181-0801	35K7 = 209-4785
6K04 = 181-0581	27K = 171-7725	121K = 181-0710	976K = 181-0802	36K5 = 209-4787
6K19 = 181-0582	27K4 = 181-0644	124K = 181-0711	1M = 157-7699	37K4 = 209-4789
6K2 = 167-0238	28K = 181-0645	127K = 181-0712	1K05 = 209-4679	38K3 = 209-4791
6K2 = 171-7645	28K7 = 181-0646	130K = 167-0255	1K07 = 209-4682	39K2 = 209-4793
6K2 = 189-2867	29K4 = 181-0647	133K = 181-0713	1K13 = 209-4684	4K02 = 209-4795
6K34 = 181-0584	30K = 167-0247	137K = 181-0714	1K15 = 209-4686	4K12 = 209-4797
6K49 = 181-0585	30K = 171-7664	140K = 181-0715	1K18 = 209-4688	4K22 = 209-4799
6K65 = 181-0586	30K = 189-2876	143K = 181-0717	1K21 = 209-4690	4K32 = 209-4802
6K8 = 157-7671	30K1 = 181-0648	147K = 181-0718	1K24 = 209-4693	4K42 = 209-4804
6K8 = 171-7646	30K9 = 181-0651	150K = 157-7688	1K27 = 209-4695	4K53 = 209-4806
6K8 = 171-7718	31K6 = 181-0652	154K = 181-0719	1K33 = 209-4697	4K64 = 209-4808
6K81 = 181-0587	32K4 = 181-0653	158K = 181-0720	1K37 = 209-4699	4K75 = 209-4810
6K98 = 181-0588	33K = 157-7679	160K = 167-0257	1K4 = 209-4701	4K87 = 209-4813
7K15 = 181-0589	33K = 171-7665	162K = 181-0721	1K43 = 209-4703	4K99 = 209-4815
7K32 = 181-0590	33K = 171-7726	165K = 181-0722	1K47 = 209-4705	40K2 = 209-4796
7K5 = 167-0239	33K2 = 181-0654	169K = 181-0723	1K54 = 209-4707	41K2 = 209-4798
7K5 = 171-7647	34K = 181-0655	174K = 181-0724	1K58 = 209-4711	42K2 = 209-4801
7K5 = 189-2868	34K8 = 181-0656	178K = 181-0725	1K62 = 209-4713	43K2 = 209-4803
7K68 = 181-0591	35K7 = 181-0657	180K = 157-7689	1K65 = 209-4715	44K2 = 209-4805
7K87 = 181-0592	36K = 167-0248	182K = 181-0726	1K69 = 209-4717	45K3 = 209-4807
8K06 = 181-0593	36K = 171-7666	187K = 181-0727	1K74 = 209-4719	46K4 = 209-4809
8K2 = 157-7672	36K = 189-2877	191K = 181-0729	1K78 = 209-4722	47K5 = 209-4811
8K2 = 171-7648	36K5 = 181-0658	196K = 181-0731	1K82 = 209-4724	48K7 = 209-4814
8K2 = 171-7719	37K4 = 181-0659	200K = 167-0258	1K87 = 209-4726	49K9 = 209-4816
8K25 = 181-0594	38K3 = 181-0660	205K = 181-0732	1K91 = 209-4728	5K11 = 209-4817
8K45 = 181-0596	39K = 157-7680	210K = 181-0733	1K96 = 209-4730	5K23 = 209-4819
8K66 = 181-0597	39K = 171-7667	215K = 181-0734	10K2 = 209-4677	5K36 = 209-4821
8K87 = 181-0598	39K = 171-7727	220K = 157-7690	10K5 = 209-4681	5K49 = 209-4823
9K09 = 181-0599	39K2 = 181-0661	221K = 181-0735	10K7 = 209-4683	5K62 = 209-4826
9K1 = 167-0240	40K2 = 181-0663	226K = 181-0736	11K3 = 209-4685	5K76 = 209-4828
9K1 = 171-7651	41K2 = 181-0664	232K = 181-0737	11K5 = 209-4687	5K9 = 209-4830
9K1 = 189-2869	42K2 = 181-0665	237K = 181-0738	11K8 = 209-4689	51K1 = 209-4818
9K31 = 181-0600	43K = 167-0249	240K = 167-0259	12K1 = 209-4692	52K3 = 209-4820
9K53 = 181-0602	43K = 171-7668	243K = 181-0739	12K4 = 209-4694	53K6 = 209-4822
9K76 = 181-0603	43K = 189-2878	249K = 181-0740	12K7 = 209-4696	54K9 = 209-4825
10K = 157-7673	43K2 = 181-0666	255K = 181-0742	13K3 = 209-4698	56K2 = 209-4827
10K = 171-7652	44K2 = 181-0667	261K = 181-0743	13K7 = 209-4700	57K6 = 209-4829
10K = 171-7720	45K3 = 181-0668	267K = 181-0744	14K = 209-4702	59K = 209-4831
10K2 = 181-0604	46K4 = 181-0669	270K = 157-7691	14K3 = 209-4704	6K04 = 209-4832
10K5 = 181-0605	47K = 157-7681	274K = 181-0745	14K7 = 209-4706	6K19 = 209-4834
10K7 = 181-0606	47K = 171-7669	280K = 181-0746	15K4 = 209-4709	6K34 = 209-4837
11K = 167-0241	47K = 171-7729	287K = 181-0747	15K8 = 209-4712	6K49 = 209-4839
11K = 171-7653	47K5 = 181-0670	294K = 181-0748	16K2 = 209-4714	6K65 = 209-4841
11K = 189-2870	48K7 = 181-0671	300K = 167-0260	16K5 = 209-4716	6K81 = 209-4843
11K3 = 181-0607	49K9 = 181-0672	301K = 181-0749	16K9 = 209-4718	6K98 = 209-4845
11K5 = 181-0608	51K = 167-0250	309K = 181-0750	17K4 = 209-4720	60K4 = 209-4833
11K8 = 181-0609	51K = 171-7670	316K = 181-0751	17K8 = 209-4723	61K9 = 209-4835
12K = 157-7674	51K = 189-2879	324K = 181-0752	18K2 = 209-4725	63K4 = 209-4838
12K = 171-7654	51K1 = 181-0673	330K = 157-7692	18K7 = 209-4727	64K9 = 209-4840
12K = 171-7721	52K3 = 181-0675	332K = 181-0754	19K1 = 209-4729	66K5 = 209-4842
12K1 = 181-0610	53K6 = 181-0676	340K = 181-0755	19K6 = 209-4731	68K1 = 209-4844
12K4 = 181-0611	54K9 = 181-0677	348K = 181-0756	2K05 = 209-4732	69K8 = 209-4846
12K7 = 181-0612	56K = 157-7683	357K = 181-0757	2K1 = 209-4735	7K15 = 209-4847
13K = 167-0242	56K = 171-7671	360K = 167-0261	2K15 = 209-4737	7K32 = 209-4851
13K = 171-7655	56K = 171-7731	365K = 181-0758	2K21 = 209-4739	7K68 = 209-4853
13K = 189-2871	56K2 = 181-0678	374K = 181-0759	2K26 = 209-4741	7K87 = 209-4855
13K3 = 181-0614	57K6 = 181-0679	383K = 181-0760	2K32 = 209-4743	71K5 = 209-4849
13K7 = 181-0615	59K = 181-0680	390K = 157-7693	2K37 = 209-4746	73K2 = 209-4852
14K = 181-0616	60K4 = 181-0681	392K = 181-0761	2K43 = 209-4748	76K8 = 209-4854
14K3 = 181-0617	61K9 = 181-0682	402K = 181-0762	2K49 = 209-4750	78K7 = 209-4856
14K7 = 181-0618	62K = 167-0251	412K = 181-0763	2K55 = 209-4752	8K06 = 209-4857
15K = 157-7675	62K = 171-7672	422K = 181-0764	2K61 = 209-4754	8K25 = 209-4859
15K = 171-7656	62K = 189-2880	430K = 167-0262	2K67 = 209-4756	8K45 = 209-4862
15K = 171-7722	63K4 = 181-0683	432K = 181-0766	2K74 = 209-4759	8K66 = 209-4864
15K4 = 181-0619	64K9 = 181-0684	442K = 181-0767	2K8 = 209-4761	8K87 = 209-4866
15K8 = 181-0620	66K5 = 181-0685	453K = 181-0768	2K87 = 209-4763	80K6 = 209-4858
16K = 167-0243	68K = 157-7684	464K = 181-0769	2K94 = 209-4765	82K5 = 209-4860
16K = 171-7657	68K = 171-7673	470K = 157-7695	20K5 = 209-4734	84K5 = 209-4863
16K = 189-2872	68K = 171-7732	475K = 181-0770	21K = 209-4736	86K6 = 209-4865
16K2 = 181-0621	68K1 = 181-0687	487K = 181-0771	21K5 = 209-4738	88K7 = 209-4867
16K5 = 181-0622	69K8 = 181-0688	499K = 181-0772	22K1 = 209-4740	9K09 = 209-4868
16K9 = 181-0623	71K5 = 181-0689	510K = 167-0263	22K6 = 209-4742	9K31 = 209-4870
17K4 = 181-0624	73K2 = 181-0690	511K = 181-0773	23K2 = 209-4744	9K53 = 209-4872
17K8 = 181-0626	75K = 167-0252	523K = 181-0774	23K7 = 209-4747	9K76 = 209-4875
18K = 157-7676	75K = 171-7675	536K = 181-0775	24K3 = 209-4749	90K9 = 209-4869
18K = 171-7658	75K = 189-2881	549K = 181-0776	24K9 = 209-4751	93K1 = 209-4871
18K = 171-7723	76K8 = 181-0691	560K = 157-7696	25K5 = 209-4753	95K3 = 209-4874
18K2 = 181-0627	78K7 = 181-0692	562K = 181-0778	26K1 = 209-4755	97K6 = 209-4876
18K7 = 181-0628	80K6 = 181-0693	576K = 181-0779		

Order Code	Price Each 5+	50+	100+	500+	1K+
All Values ●					

1206 Case Size

Stocked in the following OHMIC Values:

47R = 171-7736	357R = 209-5089	2K67 = 209-5036	19K6 = 209-4984	143K = 209-4932
47R5 = 209-5147	360R = 184-1744	2K7 = 184-1763	20K = 184-1780	147K = 209-4936
48R7 = 209-5152	365R = 209-5093	2K74 = 209-5042	20K5 = 209-4989	150K = 184-1797
49R9 = 209-5158	374R = 209-5097	2K8 = 209-5046	21K = 209-4994	154K = 209-4942
51R = 184-1728	383R = 209-5102	2K87 = 209-5050	21K5 = 209-4998	158K = 209-4946
51R1 = 209-5163	390R = 184-1745	2K94 = 209-5055	22K = 171-7754	160K = 184-1799
52R3 = 209-5169	392R = 209-5107	3K = 184-1764	22K1 = 209-5003	162K = 209-4950
53R6 = 209-5174	402R = 209-5111	3K01 = 209-5059	22K6 = 209-5007	165K = 209-4955
54R9 = 209-5181	412R = 209-5115	3K09 = 209-5064	23K2 = 209-5011	169K = 209-4959
56R = 184-1729	422R = 209-5120	3K16 = 209-5068	23K7 = 209-5016	174K = 209-4963
56R2 = 209-5186	430R = 184-1746	3K24 = 209-5072	24K = 184-1781	178K = 209-4968
57R6 = 209-5192	432R = 209-5124	3K3 = 171-7748	24K3 = 209-5020	180K = 184-1800
59R = 209-5197	442R = 209-5128	3K32 = 209-5077	24K9 = 209-5024	182K = 209-4972
60R4 = 209-5202	453R = 209-5134	3K4 = 209-5081	25K5 = 209-5029	187K = 209-4977
61R9 = 209-5207	464R = 209-5138	3K48 = 209-5085	26K1 = 209-5033	191K = 209-4981
62R = 184-1730	470R = 171-7743	3K57 = 209-5090	26K7 = 209-5037	196K = 209-4985
63R4 = 209-5214	475R = 209-5143	3K6 = 184-1765	27K = 184-1782	200K = 184-1801
64R9 = 209-5219	487R = 209-5148	3K65 = 209-5094	27K4 = 209-5043	205K = 209-4991
66R5 = 209-5225	499R = 209-5153	3K74 = 209-5098	28K = 209-5047	210K = 209-4995
68R = 171-7737	510R = 184-1747	3K83 = 209-5103	28K7 = 209-5052	215K = 209-4999
68R1 = 209-5230	511R = 209-5159	3K9 = 184-1766	29K4 = 209-5056	220K = 184-1802
69R8 = 209-5236	523R = 209-5164	3K92 = 209-5108	30K = 184-1783	221K = 209-5004
71R5 = 209-5241	536R = 209-5170	4K02 = 209-5112	30K1 = 209-5060	226K = 209-5008
73R2 = 209-5247	549R = 209-5175	4K12 = 209-5116	30K9 = 209-5065	232K = 209-5012
75R = 184-1731	560R = 184-1748	4K22 = 209-5121	31K6 = 209-5069	237K = 209-5017
76R8 = 209-5252	562R = 209-5182	4K3 = 184-1767	32K4 = 209-5073	240K = 184-1803
78R7 = 209-5258	576R = 209-5187	4K32 = 209-5125	33K = 171-7755	243K = 209-5021
80R6 = 209-5263	590R = 209-5193	4K42 = 209-5131	33K2 = 209-5078	249K = 209-5025
82R = 184-1732	604R = 209-5198	4K53 = 209-5135	34K = 209-5082	255K = 209-5030
82R5 = 209-5268	619R = 209-5203	4K64 = 209-5139	34K8 = 209-5086	261K = 209-5034
84R5 = 209-5275	620R = 184-1751	4K7 = 171-7749	35K7 = 209-5091	267K = 209-5039
86R6 = 209-5280	634R = 209-5209	4K75 = 209-5144	36K = 184-1784	270K = 184-1805
88R7 = 209-5286	649R = 209-5215	4K87 = 209-5149	36K5 = 209-5095	274K = 209-5044
90R9 = 209-5291	665R = 209-5220	4K99 = 209-5155	37K4 = 209-5100	280K = 209-5048
91R = 184-1733	680R = 171-7744	5K1 = 184-1768	38K3 = 209-5104	287K = 209-5053
93R1 = 209-5297	681R = 209-5226	5K11 = 209-5160	39K = 184-1785	294K = 209-5057
95R3 = 209-5303	698R = 209-5231	5K23 = 209-5165	39K2 = 209-5109	300K = 184-1806
97R6 = 209-5308	715R = 209-5237	5K36 = 209-5171	40K2 = 209-5113	301K = 209-5061
100R = 171-7738	732R = 209-5242	5K49 = 209-5176	41K2 = 209-5118	309K = 209-5066
102R = 209-5349	750R = 184-1752	5K6 = 184-1769	42K2 = 209-5122	316K = 209-5070
105R = 209-4880	768R = 209-5248	5K62 = 209-5183	43K = 184-1787	324K = 209-5074
107R = 209-4884	787R = 209-5253	5K76 = 209-5188	43K2 = 209-5126	330K = 184-1807
110R = 184-1734	806R = 209-5259	5K9 = 209-5194	44K2 = 209-5132	332K = 209-5079
113R = 209-4889	820R = 184-1753	6K04 = 209-5199	45K3 = 209-5136	340K = 209-5083
115R = 209-4893	825R = 209-5264	6K19 = 209-5204	46K4 = 209-5140	348K = 209-5088
118R = 209-4898	845R = 209-5271	6K2 = 184-1770	47K = 171-7756	357K = 209-5092
120R = 184-1735	866R = 209-5276	6K34 = 209-5211	47K5 = 209-5145	360K = 184-1808
121R = 209-4902	887R = 209-5281	6K49 = 209-5216	48K7 = 209-5150	365K = 209-5096
124R = 209-4907	909R = 209-5287	6K65 = 209-5222	49K9 = 209-5156	374K = 209-5101
127R = 209-4911	910R = 184-1754	6K8 = 171-7750	51K = 184-1788	383K = 209-5106
130R = 184-1736	931R = 209-5292	6K81 = 209-5227	51K1 = 209-5161	390K = 184-1809
133R = 209-4916	953R = 209-5298	6K98 = 209-5232	52K3 = 209-5167	392K = 209-5110
137R = 209-4920	976R = 209-5304	7K15 = 209-5238	53K6 = 209-5172	402K = 209-5114
140R = 209-4924	1K = 171-7745	7K32 = 209-5243	54K9 = 209-5177	412K = 209-5119
143R = 209-4929	1K02 = 209-4877	7K5 = 184-1771	56K = 184-1789	422K = 209-5123
147R = 209-4933	1K05 = 209-4881	7K68 = 209-5249	56K2 = 209-5184	430K = 184-1810
150R = 171-7739	1K07 = 209-4886	7K87 = 209-5254	57K6 = 209-5189	432K = 209-5127
154R = 209-4937	1K1 = 184-1755	8K06 = 209-5260	59K = 209-5195	442K = 209-5133
158R = 209-4943	1K13 = 209-4890	8K2 = 184-1772	60K4 = 209-5200	453K = 209-5137
160R = 184-1738	1K15 = 209-4894	8K25 = 209-5265	61K9 = 209-5205	464K = 209-5141
162R = 209-4947	1K18 = 209-4899	8K45 = 209-5272	62K = 184-1790	470K = 184-1811
165R = 209-4951	1K2 = 184-1756	8K66 = 209-5277	63K4 = 209-5212	475K = 209-5146
169R = 209-4956	1K21 = 209-4904	8K87 = 209-5283	64K9 = 209-5217	487K = 209-5151
174R = 209-4960	1K24 = 209-4908	9K09 = 209-5288	66K5 = 209-5223	499K = 209-5157
178R = 209-4965	1K27 = 209-4912	9K1 = 184-1773	68K = 171-7757	510K = 184-1812
180R = 184-1739	1K3 = 184-1757	9K31 = 209-5293	68K1 = 209-5228	511K = 209-5162
182R = 209-4969	1K33 = 209-4917	9K53 = 209-5299	69K8 = 209-5234	523K = 209-5168
187R = 209-4973	1K37 = 209-4921	9K76 = 209-5305	71K5 = 209-5239	536K = 209-5173
191R = 209-4978	1K4 = 209-4925	10K = 171-7751	73K2 = 209-5244	549K = 209-5179
196R = 209-4982	1K43 = 209-4930	10K2 = 209-4878	75K = 184-1791	560K = 184-1813
200R = 184-1740	1K47 = 209-4934	10K5 = 209-4882	76K8 = 209-5250	562K = 209-5185
205R = 209-4986	1K5 = 171-7746	10K7 = 209-4887	78K7 = 209-5255	576K = 209-5190
210R = 209-4992	1K54 = 209-4938	11K = 184-1775	80K6 = 209-5261	590K = 209-5196
215R = 209-4996	1K58 = 209-4944	11K3 = 209-4891	82K = 184-1792	604K = 209-5201
220R = 171-7740	1K6 = 184-1758	11K5 = 209-4895	82K5 = 209-5266	619K = 209-5206
221R = 209-5000	1K62 = 209-4948	11K8 = 209-4900	84K5 = 209-5273	620K = 184-1814
226R = 209-5005	1K65 = 209-4953	12K = 184-1776	86K6 = 209-5278	634K = 209-5213
232R = 209-5009	1K69 = 209-4957	12K1 = 209-4905	88K7 = 209-5284	649K = 209-5218
237R = 209-5013	1K74 = 209-4961	12K4 = 209-4909	90K9 = 209-5289	665K = 209-5224
240R = 184-1741	1K78 = 209-4966	12K7 = 209-4913	91K = 184-1793	680K = 184-1815
243R = 209-5018	1K8 = 184-1759	13K3 = 209-4918	93K1 = 209-5295	681K = 209-5229
249R = 209-5022	1K82 = 209-4970	13K3 = 184-1777	95K3 = 209-5301	698K = 209-5235
255R = 209-5027	1K87 = 209-4974	13K7 = 209-4922	97K6 = 209-5306	715K = 209-5240
261R = 209-5031	1K91 = 209-4979	14K = 209-4926	100K = 171-7758	732K = 209-5246
267R = 209-5035	1K96 = 209-4983	14K3 = 209-4931	102K = 209-4879	750K = 184-1817
270R = 184-1742	2K = 184-1760	14K7 = 209-4935	105K = 209-4883	768K = 209-5251
274R = 209-5041	2K05 = 209-4987	15K = 171-7752	107K = 209-4888	787K = 209-5256
280R = 209-5045	2K1 = 209-4993	15K4 = 209-4941	110K = 184-1794	806K = 209-5262
287R = 209-5049	2K15 = 209-4997	15K8 = 209-4945	113K = 209-4892	820K = 184-1818
294R = 209-5054	2K2 = 171-7747	16K = 184-1778	115K = 209-4896	825K = 209-5267
300R = 184-1743	2K21 = 209-5001	16K2 = 209-4949	118K = 209-4901	845K = 209-5274
301R = 209-5058	2K26 = 209-5006	16K5 = 209-4954	120K = 184-1795	866K = 209-5279
309R = 209-5062	2K32 = 209-5010	16K9 = 209-4958	121K = 209-4906	887K = 209-5285
316R = 209-5067	2K37 = 209-5015	17K4 = 209-4962	124K = 209-4910	909K = 209-5290
324R = 209-5071	2K4 = 184-1761	17K8 = 209-4967	127K = 209-4914	910K = 184-1819
330R = 171-7742	2K43 = 209-5019	18K = 184-1779	130K = 184-1796	931K = 209-5296
332R = 209-5076	2K49 = 209-5023	18K2 = 209-4971	133K = 209-4919	953K = 209-5302
340R = 209-5080	2K55 = 209-5028	18K7 = 209-4975	137K = 209-4923	976K = 209-5307
348R = 209-5084	2K61 = 209-5032	19K1 = 209-4980	140K = 209-4928	1M = 184-1820

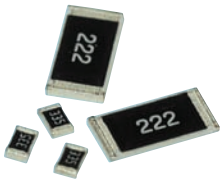
527239

Order Code	Price Each 5+	50+	100+	500+	5K+
All Values ●					

Thin Film Precision Chip Resistors

Tyco Electronics

CPF Series ±0.1%, ±25ppm



CPF chip resistors are suitable for all applications where close accuracy and stability are essential.

0402 = 1 x 0.5 x 0.35mm (HxWxD)
0603 = 1.6 x 0.8 x 0.45mm (HxWxD)
0805 = 2 x 1.25 x 0.5mm (HxWxD)

SMD

	0402	0603	0805
Rated Power @ 70 °C (W)	0.063	0.063	0.1
Limiting Element Voltage (V)	25	60	100
Maximum Overload Voltage (V)	50	120	200
Operating Temp. Range (°C)		-55 to +125	
Temperature Coefficient		25ppm/°C	

Stocked in the following OHMIC values:

10R = **169-7292**	68R = **169-7303**	390R = **169-7314**	2K7 = **169-7325**	18K = **169-7337**
12R = **169-7293**	75R = **169-7305**	470R = **169-7315**	3K3 = **169-7326**	22K = **169-7338**
15R = **169-7294**	82R = **169-7306**	560R = **169-7317**	3K9 = **169-7327**	27K = **169-7339**
18R = **169-7295**	100R = **169-7307**	680R = **169-7318**	4K7 = **169-7329**	33K = **169-7340**
22R = **169-7296**	120R = **169-7308**	820R = **169-7319**	5K6 = **169-7331**	39K = **169-7342**
27R = **169-7297**	150R = **169-7309**	1K = **169-7320**	6K8 = **169-7332**	47K = **169-7343**
33R = **169-7299**	180R = **169-7310**	1K2 = **169-7321**	8K2 = **169-7333**	56K = **169-7344**
39R = **169-7300**	220R = **169-7311**	1K5 = **169-7322**	10K = **169-7334**	68K = **169-7345**
47R = **169-7301**	270R = **169-7312**	1K8 = **169-7323**	12K = **169-7335**	82K = **169-7346**
56R = **169-7302**	330R = **169-7313**	2K2 = **169-7324**	15K = **169-7336**	100K = **169-7347**

0402 case size

Order Code	Price Each 10+	50+	100+	500+
All Values ●				

Stocked in the following OHMIC values:

10R = **169-7348**	68R = **169-7359**	390R = **169-7370**	2K7 = **169-7381**	18K = **169-7393**
12R = **169-7349**	75R = **169-7360**	470R = **169-7371**	3K3 = **169-7382**	22K = **169-7394**
15R = **169-7350**	82R = **169-7361**	560R = **169-7372**	3K9 = **169-7383**	27K = **169-7395**
18R = **169-7351**	100R = **169-7362**	680R = **169-7373**	4K7 = **169-7384**	33K = **169-7396**
22R = **169-7352**	120R = **169-7363**	820R = **169-7374**	5K6 = **169-7385**	39K = **169-7397**
27R = **169-7354**	150R = **169-7364**	1K = **169-7375**	6K8 = **169-7386**	47K = **169-7398**
33R = **169-7355**	180R = **169-7366**	1K2 = **169-7376**	8K2 = **169-7387**	56K = **169-7399**
39R = **169-7356**	220R = **169-7367**	1K5 = **169-7378**	10K = **169-7388**	68K = **169-7400**
47R = **169-7357**	270R = **169-7368**	1K8 = **169-7379**	12K = **169-7391**	82K = **169-7401**
56R = **169-7358**	330R = **169-7369**	2K2 = **169-7380**	15K = **169-7392**	100K = **169-7402**

0603 case size

Order Code	Price Each 10+	50+	100+	500+
All Values ●				

Stocked in the following OHMIC values:

10R = **169-7403**	68R = **169-7414**	390R = **169-7426**	2K7 = **169-7437**	18K = **169-7448**
12R = **169-7404**	75R = **169-7415**	470R = **169-7427**	3K3 = **169-7438**	22K = **169-7449**
15R = **169-7405**	82R = **169-7416**	560R = **169-7428**	3K9 = **169-7439**	27K = **169-7450**
18R = **169-7406**	100R = **169-7417**	680R = **169-7429**	4K7 = **169-7440**	33K = **169-7451**
22R = **169-7408**	120R = **169-7418**	820R = **169-7430**	5K6 = **169-7441**	39K = **169-7452**
27R = **169-7409**	150R = **169-7421**	1K = **169-7431**	6K8 = **169-7442**	47K = **169-7453**
33R = **169-7410**	180R = **169-7422**	1K2 = **169-7433**	8K2 = **169-7443**	56K = **169-7454**
39R = **169-7411**	220R = **169-7423**	1K5 = **169-7434**	10K = **169-7445**	68K = **169-7455**
47R = **169-7412**	270R = **169-7424**	1K8 = **169-7435**	12K = **169-7446**	82K = **169-7457**
56R = **169-7413**	330R = **169-7425**	2K2 = **169-7436**	15K = **169-7447**	100K = **169-7458**

0805 case size

532129

Order Code	Price Each 10+	50+	100+	500+
All Values ●				

PCF Series

TT electronics Welwyn Components

- Resistance values from 10R to 2M Ohms
- 0402 and 0805 case sizes
- TCR to 5ppm/°C

	0402 Case Size	0603 Case Size	0805 Case Size	0805 Case Size
Power rating @ 70°C	0.063W	0.063W	0.1W	0.1W
Resistance tolerance	±0.1	±0.1	±0.1	±0.1
Temperature coefficient	±25ppm/°C	±25ppm/°C	±25ppm/°C	±5ppm/°C
Case dimensions	1x0.5x0.35mm LxWxH	1.6x0.8x0.45mm LxWxH	2x1.25x045mm LxWxH	2x1.25x045mm LxWxH

Stocked in the following OHMIC Values:

0402 Case Size - 0.063W

100R = **110-8755**	330R = **110-8768**	750R = **110-8778**	2K = **110-8789**	4K7 = **110-8799**
110R = **110-8756**	360R = **110-8769**	820R = **110-8779**	2K2 = **110-8790**	5K1 = **110-8800**
130R = **110-8758**	390R = **110-8770**	910R = **110-8780**	2K4 = **110-8791**	5K6 = **110-8801**
160R = **110-8760**	430R = **110-8771**	1K = **110-8781**	2K7 = **110-8792**	6K2 = **110-8802**
180R = **110-8762**	470R = **110-8772**	1K1 = **110-8782**	3K = **110-8793**	6K8 = **110-8804**
200R = **110-8763**	510R = **110-8774**	1K2 = **110-8783**	3K3 = **110-8794**	7K5 = **110-8805**
220R = **110-8764**	560R = **110-8775**	1K3 = **110-8784**	3K6 = **110-8795**	8K2 = **110-8806**
270R = **110-8766**	620R = **110-8776**	1K5 = **110-8786**	3K9 = **110-8796**	9K1 = **110-8807**
300R = **110-8767**	680R = **110-8777**	1K8 = **110-8788**	4K3 = **110-8798**	10K = **110-8808**
11K = **110-8809**	18K = **110-8814**	30K = **110-8820**	47K = **110-8825**	75K = **110-8831**
12K = **110-8810**	20K = **110-8816**	33K = **110-8821**	51K = **110-8826**	82K = **110-8832**
13K = **110-8811**	22K = **110-8817**	36K = **110-8822**	56K = **110-8828**	91K = **110-8833**
15K = **110-8812**	24K = **110-8818**	39K = **110-8823**	62K = **110-8829**	100K = **110-8834**
16K = **110-8813**	27K = **110-8819**	43K = **110-8824**	68K = **110-8830**	

0603 Case Size - 0.063W

100R = **116-0304**	1K5 = **116-0326**	5K11 = **116-0347**	15K8 = **116-0367**	57K6 = **116-0389**
110R = **116-0305**	1K54 = **116-0327**	5K36 = **116-0348**	16K2 = **116-0368**	60K4 = **116-0390**
118R = **116-0306**	1K62 = **116-0328**	5K49 = **116-0349**	16K5 = **116-0371**	68K1 = **116-0391**
121R = **116-0307**	1K74 = **116-0329**	5K9 = **116-0350**	17K4 = **116-0372**	75K = **116-0392**
150R = **116-0309**	1K78 = **116-0330**	6K04 = **116-0351**	18K2 = **116-0373**	76K8 = **116-0393**
162R = **116-0311**	2K = **116-0331**	6K19 = **116-0352**	20K = **116-0374**	84K5 = **116-0395**
243R = **116-0312**	2K21 = **116-0332**	6K81 = **116-0353**	21K5 = **116-0375**	100K = **116-0396**
249R = **116-0313**	2K37 = **116-0334**	7K5 = **116-0354**	22K1 = **116-0376**	124K = **116-0397**
274R = **116-0314**	2K49 = **116-0335**	8K25 = **116-0355**	24K3 = **116-0377**	150K = **116-0398**
332R = **116-0315**	2K74 = **116-0336**	8K87 = **116-0356**	24K9 = **116-0378**	154K = **116-0399**
402R = **116-0316**	3K01 = **116-0337**	9K76 = **116-0358**	30K1 = **116-0379**	182K = **116-0401**
475R = **116-0317**	3K32 = **116-0338**	10K = **116-0359**	33K2 = **116-0380**	200K = **116-0402**
499R = **116-0318**	3K48 = **116-0339**	11K = **116-0360**	45K3 = **116-0381**	215K = **116-0403**
619R = **116-0319**	3K65 = **116-0340**	11K5 = **116-0361**	46K4 = **116-0383**	221K = **116-0404**
806R = **116-0320**	3K74 = **116-0341**	12K1 = **116-0362**	47K5 = **116-0384**	232K = **116-0405**
1K = **116-0322**	3K92 = **116-0342**	12K4 = **116-0363**	49K9 = **116-0385**	249K = **116-0406**
1K1 = **116-0323**	4K32 = **116-0343**	13K = **116-0364**	51K1 = **116-0386**	301K = **116-0407**
1K3 = **116-0324**	4K75 = **116-0344**	14K = **116-0365**	53K6 = **116-0387**	332K = **116-0408**
1K33 = **116-0325**	4K99 = **116-0346**	15K = **116-0366**	56K2 = **116-0388**	

0805 Case Size - 0.1W, 25ppm

100R = **116-0111**	1K78 = **116-0150**	6K34 = **116-0189**	24K9 = **116-0227**	130K = **116-0267**
110R = **116-0112**	1K82 = **116-0152**	6K65 = **116-0190**	25K5 = **116-0228**	140K = **116-0268**
121R = **116-0113**	1K96 = **116-0153**	6K81 = **116-0191**	26K7 = **116-0231**	143K = **116-0269**
124R = **116-0115**	2K = **116-0154**	7K15 = **116-0192**	27K4 = **116-0232**	150K = **116-0270**
150R = **116-0116**	2K1 = **116-0155**	7K32 = **116-0193**	28K7 = **116-0233**	154K = **116-0271**
169R = **116-0117**	2K15 = **116-0156**	7K5 = **116-0194**	30K1 = **116-0234**	162K = **116-0272**
182R = **116-0118**	2K21 = **116-0157**	8K06 = **116-0195**	30K9 = **116-0235**	169K = **116-0273**
200R = **116-0119**	2K43 = **116-0158**	8K25 = **116-0196**	32K4 = **116-0236**	191K = **116-0274**
226R = **116-0120**	2K49 = **116-0159**	8K66 = **116-0197**	33K2 = **116-0237**	200K = **116-0275**
232R = **116-0121**	2K55 = **116-0160**	9K09 = **116-0198**	34K8 = **116-0238**	210K = **116-0276**
249R = **116-0122**	2K61 = **116-0161**	9K31 = **116-0200**	35K7 = **116-0239**	221K = **116-0277**
274R = **116-0123**	2K67 = **116-0162**	9K53 = **116-0201**	36K5 = **116-0240**	237K = **116-0279**
280R = **116-0124**	2K74 = **116-0164**	9K76 = **116-0202**	39K2 = **116-0241**	243K = **116-0281**
348R = **116-0125**	2K8 = **116-0165**	10K = **116-0203**	40K2 = **116-0243**	249K = **116-0282**
392R = **116-0127**	3K01 = **116-0166**	10K2 = **116-0204**	41K2 = **116-0244**	267K = **116-0283**
402R = **116-0128**	3K16 = **116-0167**	10K5 = **116-0206**	43K2 = **116-0245**	332K = **116-0284**
422R = **116-0129**	3K32 = **116-0168**	10K7 = **116-0207**	46K4 = **116-0246**	348K = **116-0285**
453R = **116-0130**	3K4 = **116-0169**	11K3 = **116-0208**	47K5 = **116-0247**	365K = **116-0286**
475R = **116-0131**	3K48 = **116-0170**	12K1 = **116-0209**	49K9 = **116-0248**	392K = **116-0287**
499R = **116-0132**	3K65 = **116-0171**	12K4 = **116-0210**	51K1 = **116-0249**	402K = **116-0288**
511R = **116-0133**	3K74 = **116-0172**	13K = **116-0211**	53K6 = **116-0250**	432K = **116-0289**
590R = **116-0134**	3K92 = **116-0173**	14K = **116-0212**	56K2 = **116-0251**	475K = **116-0290**
619R = **116-0135**	4K02 = **116-0174**	15K = **116-0213**	59K = **116-0252**	487K = **116-0292**
649R = **116-0136**	4K22 = **116-0176**	16K2 = **116-0214**	60K4 = **116-0253**	499K = **116-0293**
909R = **116-0137**	4K32 = **116-0177**	16K9 = **116-0215**	61K9 = **116-0255**	511K = **116-0294**
1K = **116-0139**	4K53 = **116-0178**	18K2 = **116-0216**	63K4 = **116-0256**	523K = **116-0295**
1K05 = **116-0141**	4K75 = **116-0179**	20K = **116-0218**	68K1 = **116-0257**	536K = **116-0296**
1K1 = **116-0142**	4K99 = **116-0180**	20K5 = **116-0219**	75K = **116-0258**	562K = **116-0297**
1K21 = **116-0143**	5K11 = **116-0181**	21K = **116-0220**	82K5 = **116-0259**	619K = **116-0298**
1K24 = **116-0144**	5K49 = **116-0182**	21K5 = **116-0221**	97K6 = **116-0260**	634K = **116-0299**
1K43 = **116-0145**	5K62 = **116-0183**	22K1 = **116-0222**	100K = **116-0261**	649K = **116-0300**
1K47 = **116-0146**	5K76 = **116-0184**	22K6 = **116-0223**	102K = **116-0262**	909K = **116-0301**
1K5 = **116-0147**	5K9 = **116-0185**	23K2 = **116-0224**	110K = **116-0263**	953K = **116-0302**
1K65 = **116-0148**	6K04 = **116-0186**	23K7 = **116-0225**	121K = **116-0264**	1M = **116-0303**
1K74 = **116-0149**	6K19 = **116-0188**	24K3 = **116-0226**	124K = **116-0265**	

0805 Case Size - 0.1W, 5ppm

100R = **110-8835**	430R = **110-8853**	1K8 = **110-8871**	7K5 = **110-8887**	30K = **110-8903**
110R = **110-8836**	470R = **110-8854**	2K = **110-8872**	8K2 = **110-8889**	33K = **110-8904**
120R = **110-8837**	510R = **110-8855**	2K2 = **110-8873**	9K1 = **110-8891**	36K = **110-8905**
130R = **110-8838**	560R = **110-8857**	2K4 = **110-8874**	10K = **110-8892**	39K = **110-8907**
150R = **110-8841**	620R = **110-8858**	2K7 = **110-8875**	11K = **110-8893**	43K = **110-8908**
160R = **110-8842**	680R = **110-8859**	3K = **110-8877**	12K = **110-8894**	47K = **110-8909**
180R = **110-8843**	750R = **110-8860**	3K3 = **110-8878**	13K = **110-8895**	51K = **110-8910**
200R = **110-8844**	820R = **110-8861**	3K6 = **110-8879**	15K = **110-8896**	56K = **110-8911**
220R = **110-8845**	910R = **110-8862**	3K9 = **110-8880**	16K = **110-8897**	62K = **110-8912**
240R = **110-8846**	1K = **110-8863**	4K3 = **110-8881**	18K = **110-8898**	68K = **110-8913**
270R = **110-8847**	1K1 = **110-8865**	4K7 = **110-8882**	20K = **110-8899**	75K = **110-8914**
300R = **110-8848**	1K2 = **110-8866**	5K1 = **110-8883**	22K = **110-8900**	82K = **110-8915**
330R = **110-8849**	1K3 = **110-8868**	5K6 = **110-8884**	24K = **110-8901**	91K = **110-8916**
360R = **110-8850**	1K5 = **110-8869**	6K2 = **110-8885**	27K = **110-8902**	100K = **110-8917**
390R = **110-8851**	1K6 = **110-8870**	6K8 = **110-8886**		

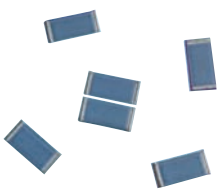
423367

	Order Code	Price Each 5+	50+	100+	500+	1K+
0402 Case Size	All Values ●					
0603 Case Size	All Values ●					
0805 Case Size, 25ppm	All Values ●					
0805 Case Size, 5ppm	All Values ●					

PCF-P Series – 0.063 Watt and 0.1 Watt ±0.1%

TT electronics Welwyn Components

Passivated Thin Film



- **Passivated** range for superior humidity performance, load life stability and humidity to 0.05%
- Precision thin film technology

SMD

RoHS ● Compliant ▲ Non-compliant

	0402	0603	0805
Power rating @ 70°C	63mW	63mW	100mW
Resistance tolerance	± 0.1%	± 0.1%	± 0.1%
Voltage rating	25V	75V	100V
Operating temperature	-55°C to +125°C	-55°C to +125°C	-55°C to +125°C
Temperature coefficient	± 25ppm/°C	± 25ppm/°C	± 25ppm/°C

0.063 Watt 0402

Stocked in the following OHMIC Values:

27R = **176-8740**	110R = **176-8758**	470R = **176-8775**	1K8 = **176-8790**	6K8 = **176-8806**
30R = **176-8742**	120R = **176-8759**	510R = **176-8776**	2K = **176-8791**	7K5 = **176-8807**
33R = **176-8743**	130R = **176-8760**	560R = **176-8777**	2K2 = **176-8792**	8K2 = **176-8808**
36R = **176-8744**	150R = **176-8762**	620R = **176-8778**	2K4 = **176-8793**	9K1 = **176-8809**
39R = **176-8745**	160R = **176-8763**	680R = **176-8779**	2K7 = **176-8794**	10K = **176-8810**
43R = **176-8746**	180R = **176-8764**	750R = **176-8780**	3K = **176-8795**	11K = **176-8811**
47R = **176-8747**	200R = **176-8765**	820R = **176-8781**	3K3 = **176-8796**	12K = **176-8812**
51R = **176-8749**	220R = **176-8766**	910R = **176-8782**	3K6 = **176-8798**	13K = **176-8813**
56R = **176-8751**	240R = **176-8767**	1K = **176-8783**	3K9 = **176-8799**	15K = **176-8814**
62R = **176-8752**	270R = **176-8768**	1K1 = **176-8784**	4K3 = **176-8800**	16K = **176-8816**
68R = **176-8753**	300R = **176-8769**	1K2 = **176-8786**	4K7 = **176-8801**	18K = **176-8817**
75R = **176-8754**	330R = **176-8770**	1K3 = **176-8787**	5K1 = **176-8802**	20K = **176-8818**
82R = **176-8755**	360R = **176-8771**	1K5 = **176-8788**	5K6 = **176-8804**	22K = **176-8819**
91R = **176-8756**	390R = **176-8772**	1K6 = **176-8789**	6K2 = **176-8805**	24K = **176-8820**
100R = **176-8757**	430R = **176-8774**			

	Price Each				
Order Code	5+	25+	100+	500+	1K+
All Values ●					

0.063 Watt 0603

Stocked in the following OHMIC Values:

27R = **150-5951**	120R = **150-5969**	470R = **150-5987**	2K = **150-6004**	6K8 = **150-6019**
30R = **150-5952**	130R = **150-5971**	510R = **150-5988**	2K2 = **150-6005**	7K5 = **150-6021**
33R = **150-5953**	150R = **150-5972**	51R = **150-5959**	2K4 = **150-6007**	8K2 = **150-6022**
39R = **150-5955**	160R = **150-5973**	560R = **150-5989**	2K7 = **150-6008**	9K1 = **150-6023**
43R = **150-5957**	180R = **150-5975**	680R = **150-5991**	3K = **150-6009**	10K = **150-6024**
47R = **150-5958**	200R = **150-5976**	750R = **150-5992**	3K3 = **150-6010**	11K = **150-6025**
56R = **150-5960**	220R = **150-5977**	820R = **150-5994**	3K6 = **150-6011**	12K = **150-6026**
62R = **150-5961**	240R = **150-5978**	910R = **150-5995**	3K9 = **150-6012**	15K = **150-6028**
68R = **150-5962**	270R = **150-5979**	1K = **150-5996**	4K3 = **150-6013**	16K = **150-6029**
75R = **150-5963**	300R = **150-5980**	1K2 = **150-5998**	4K7 = **150-6014**	18K = **150-6030**
82R = **150-5964**	330R = **150-5983**	1K3 = **150-5999**	5K1 = **150-6015**	20K = **150-6032**
91R = **150-5965**	360R = **150-5984**	1K5 = **150-6000**	5K6 = **150-6016**	22K = **150-6033**
100R = **150-5966**	390R = **150-5985**	1K6 = **150-6001**	6K2 = **150-6017**	24K = **150-6034**
110R = **150-5967**	430R = **150-5986**	1K8 = **150-6003**		

	Price Each				
Order Code	5+	25+	100+	500+	1K+
All Values ●					

0.1 Watt 0805

Stocked in the following OHMIC Values:

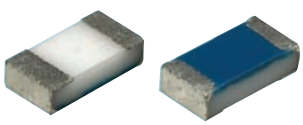
27R = **150-6035**	130R = **150-6054**	517R = **150-6044**	2K = **150-6086**	6K8 = **150-6100**
30R = **150-6036**	150R = **150-6056**	560R = **150-6071**	2K2 = **150-6087**	7K5 = **150-6101**
33R = **150-6037**	160R = **150-6057**	620R = **150-6072**	2K4 = **150-6088**	8K2 = **150-6102**
36R = **150-6038**	180R = **150-6058**	680R = **150-6073**	2K7 = **150-6089**	9K1 = **150-6103**
39R = **150-6040**	200R = **150-6059**	750R = **150-6074**	3K = **150-6090**	10K = **150-6104**
43R = **150-6041**	240R = **150-6061**	820R = **150-6075**	3K3 = **150-6091**	11K = **150-6105**
47R = **150-6042**	270R = **150-6062**	910R = **150-6076**	3K6 = **150-6093**	13K = **150-6107**
56R = **150-6045**	300R = **150-6063**	1K = **150-6077**	3K9 = **150-6094**	15K = **150-6108**
62R = **150-6046**	330R = **150-6064**	1K1 = **150-6078**	4K3 = **150-6095**	16K = **150-6111**
75R = **150-6048**	360R = **150-6065**	1K3 = **150-6082**	4K7 = **150-6096**	18K = **150-6112**
82R = **150-6049**	390R = **150-6066**	1K5 = **150-6083**	5K1 = **150-6097**	20K = **150-6113**
91R = **150-6050**	430R = **150-6068**	1K6 = **150-6084**	5K6 = **150-6098**	22K = **150-6114**
100R = **150-6051**	470R = **150-6069**	1K8 = **150-6085**	6K2 = **150-6099**	24K = **150-6115**
120R = **150-6053**	510R = **150-6070**			

494016

	Price Each				
Order Code	5+	25+	100+	500+	1K+
All Values ●					

Precision / Professional Thin Film Resistors

0603, AEC - Q200 Qualified



	MCT Professional	MCT Precision
Power rating @ 70°C	150mW	125mW
Voltage rating	75V	75V
Resistance tolerance	± 0.5%	± 0.1%
Temperature coefficient	± 25ppm/K	± 25ppm/K

MCT-Pro 0.5%

Stocked in the following OHMIC values:

100R = **171-3645**	470R = **171-3648**	3K32 = **171-3651**	15K = **171-3654**	75K = **171-3658**
150R = **171-3646**	1K = **171-3649**	4K7 = **171-3652**	33K2 = **171-3655**	100K = **171-3659**
332R = **171-3647**	1K5 = **171-3650**	10K = **171-3653**	47K = **171-3657**	

	Price Each			
Order Code	50+	100+	500+	5K+
All Values ●				

MCT-Pre 0.1%

Stocked in the following OHMIC values:

100R = **171-3660**	470R = **171-3663**	3K32 = **171-3666**	15K = **171-3671**	75K = **171-3674**
150R = **171-3661**	1K = **171-3664**	4K7 = **171-3667**	33K2 = **171-3672**	100K = **171-3675**
332R = **171-3662**	1K5 = **171-3665**	10K = **171-3669**	47K = **171-3673**	

536551

	Price Each			
Order Code	50+	100+	500+	1K+
All Values ●				

High Precision Thin Film Chip Resistors

TNPU-e3 0.05%

Stocked in the following OHMIC values:

100R	=	**187-7585**
470R	=	**187-7587**
1K	=	**187-7588**
4K7	=	**187-7589**
10K	=	**187-7590**
47K	=	**187-7591**
100K	=	**187-7592**

	TNPU0603 e3
Power rating @ 70°C	100mW
Voltage rating	75V
Resistance tolerance	± 0.05%
Temperature coefficient	± 5ppm/K

Size: 0603

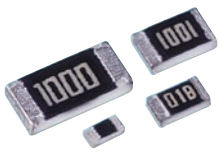
Compliance
- GADSL
- CEFIC-EECA-EICTA
- ELV
- WEEE
- RoHS Compliant

627301

	Price Each			
Order Code	1+	25+	100+	250+
All Values ●				

TFx20 Series

50ppm/°C ±1%



	0603 Case Size	0805 Case Size
Power rating @ 70°C	100mW	125mW
Voltage rating	75V	150V
Resistance tolerance	± 1%	± 1%
Temperature coefficient	± 50ppm/°C	± 50ppm/°C

- Thin film technology ideal for analogue circuits which benefit from low noise components
- 0603 and 0805 case sizes

TF220 - 0603 Case Size

Stocked in the following OHMIC Values:

5R6 = **150-0640**	68R = **150-0647**	820R = **150-0656**	8K2 = **150-0657**	82K = **150-0658**
6R8 = **150-0646**	82R = **150-0655**	1K = **150-0584**	10K = **150-0585**	100K = **150-0586**
8R2 = **150-0654**	100R = **150-0583**	1K2 = **150-0590**	12K = **150-0591**	120K = **150-0592**
10R = **150-0581**	120R = **150-0589**	1K5 = **150-0597**	15K = **150-0598**	150K = **150-0599**
12R = **150-0588**	150R = **150-0596**	1K8 = **150-0604**	18K = **150-0605**	180K = **150-0606**
15R = **150-0595**	180R = **150-0603**	2K2 = **150-0610**	22K = **150-0611**	220K = **150-0613**
18R = **150-0602**	220R = **150-0609**	2K7 = **150-0617**	27K = **150-0618**	270K = **150-0619**
22R = **150-0608**	270R = **150-0616**	3K3 = **150-0623**	33K = **150-0625**	330K = **150-0626**
27R = **150-0615**	330R = **150-0622**	3K9 = **150-0630**	39K = **150-0631**	390K = **150-0632**
33R = **150-0621**	390R = **150-0629**	4K7 = **150-0637**	47K = **150-0638**	470K = **150-0639**
39R = **150-0628**	470R = **150-0635**	5K6 = **150-0643**	56K = **150-0644**	560K = **150-0645**
47R = **150-0634**	560R = **150-0642**	6K8 = **150-0651**	68K = **150-0652**	680K = **150-0653**
56R = **150-0641**	680R = **150-0649**			

	Price Each				
Order Code	5+	50+	250+	500+	5K+
All Values ●					

TF120 - 0805 Case Size

Stocked in the following OHMIC Values:

5R6 = **150-0722**	82R = **150-0736**	1K = **150-0663**	8K2 = **150-0738**	150K = **150-0680**
6R8 = **150-0729**	100R = **150-0662**	10K = **150-0664**	15K = **150-0679**	180K = **150-0688**
8R2 = **150-0735**	120R = **150-0669**	1K2 = **150-0670**	18K = **150-0687**	220K = **150-0694**
10R = **150-0660**	150R = **150-0677**	12K = **150-0671**	22K = **150-0693**	270K = **150-0701**
12R = **150-0668**	180R = **150-0684**	1K5 = **150-0678**	27K = **150-0700**	330K = **150-0708**
15R = **150-0676**	220R = **150-0691**	1K8 = **150-0686**	33K = **150-0707**	390K = **150-0714**
18R = **150-0683**	470R = **150-0718**	2K2 = **150-0692**	39K = **150-0713**	470K = **150-0721**
22R = **150-0690**	270R = **150-0698**	2K7 = **150-0699**	47K = **150-0720**	560K = **150-0728**
27R = **150-0696**	330R = **150-0705**	3K3 = **150-0706**	56K = **150-0726**	680K = **150-0734**
33R = **150-0704**	390R = **150-0711**	3K9 = **150-0712**	68K = **150-0733**	820K = **150-0742**
39R = **150-0710**	560R = **150-0724**	4K7 = **150-0719**	82K = **150-0741**	1M = **150-0666**
47R = **150-0717**	680R = **150-0731**	5K6 = **150-0725**	100K = **150-0665**	1M2 = **150-0674**
56R = **150-0723**	820R = **150-0737**	6K8 = **150-0732**	120K = **150-0672**	1M5 = **150-0681**
68R = **150-0730**				

493771

	Price Each				
Order Code	5+	50+	250+	500+	5K+
All Values ●					

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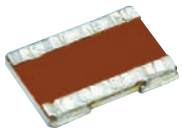
Precision - Metal Foil

High Precision Chip Resistor

NEW

VISHAY PRECISION GROUP



- Bulk metal current sensing chip resistor
- Non inductive, non capacitive design
- Load life stability

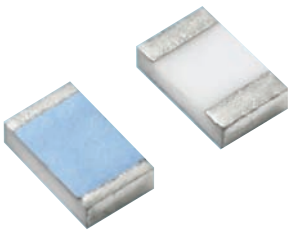
Resistance	Power Rating (mW)	Tolerance	Temperature Coefficient	Voltage Rating (V)	Mftrs. List No.
VCS1625					
0.01 ohm	500	± 1%	± 2ppm/°C	Y08500R01000F9R	186-7923
0.1 ohm	500	± 1%	± 2ppm/°C	Y08500R10000F9R	186-7924
1 ohm	500	± 0.1%	± 2ppm/°C	Y08501R00000B9R	186-7925
VCS1625Z					
0.5 ohm	500	± 1%	± 0.05ppm/°C	Y16070R50000F9R	186-7926
2 ohm	500		± 0.05ppm/°C	Y16072R00000T9R	186-7927

624214

Mftrs. List No.	Order Code	Price Each 1+	5+	10+	25+	50+
VCS1625						
Y08500R01000F9R	**186-7923**●					
Y08500R10000F9R	**186-7924**●					
Y08501R00000B9R	**186-7925**●					
VCS1625Z						
Y16070R50000F9R	**186-7926**●					
Y16072R00000T9R	**186-7927**●					

VSMP Series – Foil Resistors

VISHAY PRECISION GROUP



The VSMP Series utilizes ultra precision Bulk Metal® Z-Foil (BMZF). The new Z-Foil technology provides a significant reduction of the resistive element sensitivity to changes of temperature due to ambient temperature variations (TCR) and to self heating when power is applied (power coefficient).

Features:
- 300mW at +70°C
- Low Current Noise: – 40dB 'Noise free component'

Applications:
- Automatic Test Equipment
- Military and Space
- Communication

Power rating @ 70°C (0603)	100mW	Resistance tolerance	±0.25%
Power rating @ 70°C (0805)	200mW	Temperature coefficient max	±0.2ppm/°C
Power rating @ 70°C (1206)	300mW		

423447

Resistance	Order Code	Price Each 1+	25+	100+	250+	500+
Case 0805						
10R	**110-9023**● RL					
100R	**110-9024**● RL					
250R	**110-9025**● RL					
350R	**110-9026**● RL					
500R	**110-9027**● RL					
1K	**110-9028**● RL					
2K	**110-9031**● RL					
2K5	**110-9033**● RL					
5K	**110-9034**● RL					
10K	**110-9035**● RL					
Case 0603						
3K	NEW **186-7935**●					
Case 1206						
10R	**110-9036**● RL					
100R	**110-9037**● RL					
250R	**110-9038**● RL					
350R	**110-9039**● RL					
500R	**110-9040**● RL					
1K	**110-9041**● RL					
2K	**110-9043**● RL					
2K5	**110-9044**● RL					
5K	**110-9045**● RL					
10K	**110-9046**● RL					
20K	**110-9047**● RL					
25K	**110-9048**● RL					

0.25 Watt ±0.01% - SMR1D Series Surface Mount

VISHAY PRECISION GROUP

SMD

- Fully encapsulated precision resistor in surface mount package
- Bulk metal® foil technology
- High precision
- Low temperature coefficient

L = 6.0 ±0.3, W = 3.2 ±0.3, H = 2.5 ±0.3
P = 1.3 ±0.3, TW = 2.2 ±0.1, TH(min) 1.0

Power rating @ 70°C	250mW
Resistance variation	±0.01%
Temperature coefficient	<0.6ppm/°C nom, 0°C to +60°C
Shelf life stability	±25PPM/yr
Load life stability	±50ppm/°Ctypical at full rated power for 2000hrs
Thermal e.m.f.	<0.1μV/°C max
Rise time	1ns@ 1k
Working voltage	54V dc or ac peak

Stocked in the following OHMIC Values:

100R = **118-7043** 350R = **120-3362** 1K = **120-3364** 2K5 = **120-3366** 10K = **120-3369**
250R = **120-3361** 500R = **120-3363** 2K = **120-3365** 5K = **120-3367**

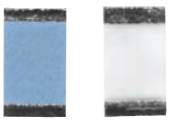
207299

Order Code	Price Each 1+	5+	10+	25+	50+
Values 100R to 2K5 ●					
Value 5K ●					
Values 10K to 25K ●					

PFRR Series High Precision Thin Film Chip Resistors

ESCC 4001/023 Qualified, R Failure Rate

VISHAY



Features
- Very low noise <(- 35 dB) and voltage coefficient (< 0.01 ppm/V)
- SnPb terminations over nickel barrier

NEW

	0603 Case Size	0805 Case Size	1206 Case Size
Power rating @ 70°C	100mW	125mW	250mW
Voltage rating	50V	100V	150V
Resistance Tolerance	± 0.05%	± 0.05%	± 0.05%
Temperature Coefficient	± 10ppm/°C	± 10ppm/°C	± 10ppm/°C
Voltage Rating	50V	100V	150V

0603 Case

Stocked in the following OHMIC Values:

100R = **209-8095** 1K = **209-8096** 10K = **209-8097** 100K = **209-8098**

Order Code	Price Each 1+	10+	50+	100+
All Values ●				

0805 Case

Stocked in the following OHMIC Values:

100R = **209-8099** 10K = **209-8101** 100K = **209-8102** 200K = **209-8103**
1K = **209-8100**

Order Code	Price Each 1+	10+	50+	100+
All Values ●				

1206 Case

Stocked in the following OHMIC Values:

100R = **209-8104** 10K = **209-8107** 200K = **209-8109** 1M = **209-8111**
1K = **209-8105** 100K = **209-8108** 500K = **209-8110**

656151

Order Code	Price Each 1+	10+	50+	100+
All Values ●				

Ultra High Precision Resistor

VISHAY

NEW

- Ultra high precision resistor
- Low TCR, low noise and low thermal EMF

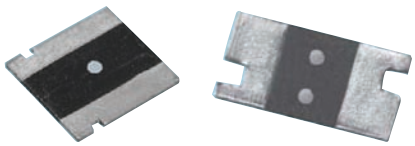
Resistance	Power Rating (mW)	Tolerance	Temperature Coefficient	Voltage Rating (V)	Mftrs. List No.	Order Code
SMR1DZ						
10 ohm	250	± 0.1%	± 0.05ppm/°C	73	Y174510R0000B9R	186-7909
100 ohm	250	± 0.01%	± 0.05ppm/°C	73	Y1745100R000T9R	186-7906
1 kohm	250	± 0.01%	± 0.05ppm/°C	73	Y17451K00000T9R	186-7911
5 kohm	250	± 0.01%	± 0.05ppm/°C	73	Y17455K00000T9R	186-7914
10 kohm	250	± 0.01%	± 0.05ppm/°C	73	Y174510K0000T9R	186-7907
20 kohm	250	± 0.01%	± 0.05ppm/°C	73	Y174520K0000T9R	186-7912
50 ohm	250	± 0.01%	± 0.05ppm/°C	73	Y174550R0000T9R	186-7913
SMR3DZ						
100 ohm	600	± 0.01%	± 0.05ppm/°C	180	Y1746100R000T9R	186-7915
1 kohm	600	± 0.01%	± 0.05ppm/°C	180	Y17461K00000T9R	186-7917
5 kohm	600	± 0.01%	± 0.05ppm/°C	180	Y17465K00000T9R	186-7918
10 kohm	600	± 0.01%	± 0.05ppm/°C	180	Y174610K0000T9R	186-7916

RoHS ● Compliant ▲ Non-compliant

624199

Mftrs. List No.	Order Code	Price Each 1+	5+	10+	25+	50+
SMR1DZ						
Y1745100R000T9R	**186-7906●**					
Y174510K0000T9R	**186-7907●**					
Y174510R0000B9R	**186-7909●**					
Y17451K00000T9R	**186-7911●**					
Y174520K0000T9R	**186-7912●**					
Y174550R0000T9R	**186-7913●**					
Y17455K00000T9R	**186-7914●**					
SMR3DZ						
Y1746100R000T9R	**186-7915●**					
Y174610K0000T9R	**186-7916●**					
Y17461K00000T9R	**186-7917●**					
Y17465K00000T9R	**186-7918●**					

High Precision Power Resistor



NEW

- High Precision, current sensing, metal strip power resistor
- High component and equipment reliability
- Load life stability upto ±0.2 %
- Low Inductance, low TCR and excellent frequency response
- Operating temperature : -65°C to 170°C

Case Size	Power Rating W	Resistance Tolerance	Height mm	Length mm	Width mm
2512	1	± 0.1%	0.63	6.35	3.17
3637	3	± 0.5%	0.63	9.14	9.39

Case Size 2512

Stocked in the following OHMIC Values

0R005 = 186-7887 0R01 = 186-7888 0R05 = 186-7889 0R1 = 186-7890 0R1 = 186-7892

Case Size 3637

Stocked in the following OHMIC Values

0R001 = 186-7893 0R002 = 186-7894 0R005 = 186-7895

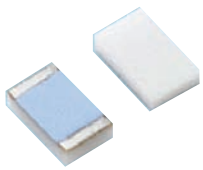
624135

Case Size		Price Each 1+	5+	25+	50+	100+
2512	All Values ●					
3637	All Values ●					

High Precision Flip Resistor

NEW

VISHAY PRECISION GROUP



- Z Foil flip chip resistor
- Non inductive, non capacitive design
- Load life stability

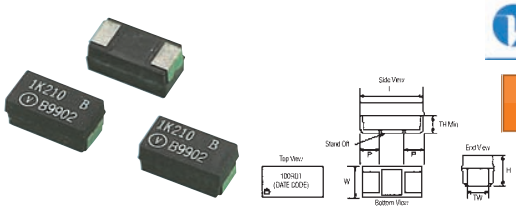
Resistance	Power Rating mW	Tolerance	Temperature Coefficient	Voltage Rating V	Mftrs. List No.	Order Code
1 kohm	100	± 0.01%	± 0.05ppm/°C	28	Y16291K00000T9R	186-7930
20 kohm	300	± 0.01%	± 0.05ppm/°C	95	Y163120K0000T9R	186-7931

624224

Mftrs. List No.	Order Code	Price Each 1+	5+	10+	25+	50+
Y16291K00000T9R	**186-7930●**					
Y163120K0000T9R	**186-7931●**					

0.6 Watt ±0.01% - SMR3D Series Surface Mount

VISHAY PRECISION GROUP



NEW

SMD

L = 7.3 ±0.3, W = 4.3 ±0.3, H = 2.8 ±0.3
P = 1.3 ±0.3, TW = 2.4 ±0.1, TH(min) 1.0

- Fully encapsulated precision resistor in surface mount package
- Bulk metal® foil technology
- High precision
- Low temperature coefficient

Power rating @ 70°C 600mW
Resistance variation ±0.01%
Temperature coefficient <0.6ppm/°C nom, 0°C to +60°C
Shelf life stability ±25PPM/yr
Load life stability ±50ppm/°C typical at full rated power for 2000hrs
Thermal e.m.f. <0.1V/°C max
Rise time 1ns@ 1k
Working voltage 300V dc or ac peak

Stocked in the following OHMIC Values:

10R = **213-6576** 250R = **120-3374** 1K = **120-3376** 2K5 = **120-3377** 20K = **120-3380**
100R = **120-3373** 500R = **120-3375** 2K = **213-6577** 10K = **120-3379** 75K = **213-6578**

207301

Order Code	Price Each 1+	5+	10+	25+	50+
Values 100R to 20K ●					

High Precision Audio Resistor

NEW

VISHAY PRECISION GROUP

- Naked Z-foil resistor designed for reduced signal distortion and good signal processing
- Non Inductive and non capacitive design

Resistance	Power Rating (mW)	Tolerance	Temperature Coefficient	Voltage Rating (V)	Mftrs. List No.	Order Code
100 ohm	400	± 0.01%	± 0.05ppm/°C	200	Y0706100R000T9L	186-7919
1 kohm	400	± 0.01%	± 0.05ppm/°C	200	Y07061K00000T9L	186-7922
10 kohm	400	± 0.01%	± 0.05ppm/°C	200	Y070610K0000T9L	186-7920

624206

Order Code	Price Each 1+	5+	10+	25+	50+
All Values●					

0.6 Watt - ±0.01% - S102J, S102K and S102C Serie

VISHAY PRECISION GROUP

- Bulk metal® foil technology
- High precision
- Low temperature coefficient
- High performance instrumentation applications

H = 8.0, W = 7.49, D = 2.49,
Lead pitch = 5.08, Lead dia. = 0.6

Power rating @ 70°C 600mW
Resistance variation ±0.01%
Temperature coefficient <0.6ppm/°C nom, 0°C to +60°C
Shelf life stability ±25PPM/yr
Load life stability ±50ppm/°C typical at full rated power for 2000hrs
Thermal e.m.f. <0.1μV/°C max
Rise time 1ns@ 1k
Working voltage 300V dc or ac peak

207305

Series	Resistance	Order Code	Price Each 1+	5+	10+	25+
S102C	100R	**213-6563●**				
S102C	120R	**186-7900●**				
S102C	350R	**186-7899●**				
S102C	1K	**213-6565●**				
S102C	10K	**213-6564●**				
S102J	100R	**120-3343●**				
S102J	120R	**120-3346●**				
S102J	250R	**120-3347●**				
S102J	350R	**120-3348●**				
S102J	500R	**120-3349●**				
S102J	1K	**120-3350●**				
S102J	2K	**120-3351●**				
S102J	2K5	**120-3352●**				
S102J	5K	**120-3353●**				
S102J	10K	**120-3354●**				
S102J	20K	**120-3355●**				
S102J	25K	**120-3357●**				
S102J	50K	**120-3358●**				
S102J	100K	**120-3359●**				
S102K	50R	**213-6574▲**				
S102K	100R	**213-6568●**				
S102K	500R	**213-6572●**				
S102K	1K	**186-7903●**				
S102K	5K	**213-6575▲**				
S102K	10K	**186-7902●**				
S102K	20K	**213-6571●**				
S102K	50K	**213-6573●**				
S102K	100K	**186-7901●**				

Precision - Metal Foil - continued

High Precision Resistor

NEW

VISHAY PRECISION GROUP

- Z Foil flip power resistor
- Non inductive, non capacitive design
- Load life stability

Resistance	Power Rating (mW)	Tolerance	Temperature Coefficient	Voltage Rating (V)	Mftrs. List No.	Order Code
100 ohm	600	± 0.005%	± 0.05ppm/°C	300	Y1453100R000V9L	186-7936
500 ohm	600	± 0.005%	± 0.05ppm/°C	300	Y1453500R000V9L	186-7940
1 kohm	600	± 0.01%	± 0.05ppm/°C	300	Y14531K00000T9L	186-7938
5 kohm	600	± 0.005%	± 0.05ppm/°C	300	Y145350K0000V9L	186-7941
10 kohm	600	± 0.005%	± 0.05ppm/°C	300	Y145310K0000V9L	186-7937
20 kohm	600	± 0.005%	± 0.05ppm/°C	300	Y145320K0000V9L	186-7939

624227

Mftrs. List No.	Order Code	Price Each 1+	5+	10+	25+	50+
Y1453100R000V9L	186-7936●					
Y145310K0000V9L	186-7937●					
Y14531K00000T9L	186-7938●					
Y145320K0000V9L	186-7939●					
Y1453500R000V9L	186-7940●					
Y14535K00000V9L	186-7941●					

High Precision Power Resistor

NEW

VISHAY PRECISION GROUP

- High Precision, current sensing, metal strip power resistor
- High component and equipment reliability
- Load life stability upto ±0.005 %
- Low Inductance, low TCR and excellent frequency response
- Operating temperature : -55°C to 150°C

Resistance	Power Rating (W)	Tolerance	Temperature Coefficient	Voltage Rating (V)	Mftrs. List No.	Order Code
1 ohm	8	± 1%	± 2ppm/°C	300	Y09261R00000F9L	186-7934
10 ohm	8	± 0.01%	± 2ppm/°C	300	Y092610R0000T9L	186-7932

624225

Mftrs. List No.	Order Code	Price Each 1+	5+	10+	25+	50+
Y092610R0000T9L	186-7932●					
Y09261R00000F9L	186-7934●					

Precision - Metal Film

HOLCO H8 Series

Tyco Electronics

0.25 Watt ±0.1% ±15ppm/°C

L=7.2 max, Dia=2.5 max Lead length=30.0min, Lead dia=0.6

- High Pulse Withstand
- Low Reactance
- Axial Leaded Precision Resistor

Power rating @ 70°C	250mW	Operating temperature	-55°C to +155°C
Voltage range	350V	Temperature coefficient	± 15ppm/°C

Stocked in the following OHMIC Values:

51R1 =	175-1302	140R =	175-1332	274R =	175-1383	536R =	175-1415	1K05 =	175-1446
53R6 =	175-1303	143R =	175-1333	280R =	175-1385	549R =	175-1416	1K07 =	175-1447
56R2 =	175-1304	147R =	175-1334	287R =	175-1386	562R =	175-1417	1K1 =	175-1448
59R =	175-1305	150R =	175-1336	294R =	175-1387	576R =	175-1418	1K13 =	175-1449
61R9 =	175-1306	154R =	175-1337	301R =	175-1388	590R =	175-1419	1K15 =	175-1450
64R9 =	175-1307	158R =	175-1338	309R =	175-1389	604R =	175-1420	1K18 =	175-1452
68R1 =	175-1308	162R =	175-1339	316R =	175-1390	619R =	175-1421	1K21 =	175-1453
71R5 =	175-1309	165R =	175-1340	324R =	175-1391	634R =	175-1422	1K24 =	175-1454
75R =	175-1310	169R =	175-1341	332R =	175-1392	649R =	175-1423	1K27 =	175-1455
78R7 =	175-1312	174R =	175-1343	340R =	175-1393	665R =	175-1424	1K3 =	175-1456
82R5 =	175-1313	178R =	175-1345	348R =	175-1394	681R =	175-1425	1K33 =	175-1457
86R6 =	175-1314	182R =	175-1349	357R =	175-1395	698R =	175-1427	1K37 =	175-1458
90R9 =	175-1315	187R =	175-1352	365R =	175-1397	715R =	175-1428	1K4 =	175-1459
95R3 =	175-1316	191R =	175-1356	374R =	175-1398	732R =	175-1429	1K43 =	175-1460
100R =	175-1317	196R =	175-1361	383R =	175-1399	750R =	175-1430	1K47 =	175-1461
102R =	175-1318	200R =	175-1365	392R =	175-1400	768R =	175-1431	1K5 =	175-1462
105R =	175-1319	205R =	175-1368	402R =	175-1401	787R =	175-1432	1K54 =	175-1464
107R =	175-1320	210R =	175-1371	412R =	175-1403	806R =	175-1433	1K58 =	175-1465
110R =	175-1321	215R =	175-1373	422R =	175-1404	825R =	175-1434	1K62 =	175-1466
113R =	175-1322	221R =	175-1374	432R =	175-1405	845R =	175-1435	1K65 =	175-1467
115R =	175-1324	226R =	175-1375	442R =	175-1406	866R =	175-1436	1K69 =	175-1468
118R =	175-1325	232R =	175-1376	453R =	175-1407	887R =	175-1437	1K74 =	175-1469
121R =	175-1326	237R =	175-1377	464R =	175-1408	909R =	175-1439	1K78 =	175-1470
124R =	175-1327	243R =	175-1378	475R =	175-1409	931R =	175-1441	1K82 =	175-1471
127R =	175-1328	249R =	175-1379	487R =	175-1410	953R =	175-1442	1K87 =	175-1472
130R =	175-1329	255R =	175-1380	499R =	175-1411	976R =	175-1443	1K91 =	175-1473
133R =	175-1330	261R =	175-1381	511R =	175-1412	1K =	175-1444	1K96 =	175-1474
137R =	175-1331	267R =	175-1382	523R =	175-1413	1K02 =	175-1445	2K =	175-1476
2K05 =	175-1477	5K9 =	175-1525	16K9 =	175-1574	47K5 =	175-1623	133R =	175-1672
2K1 =	175-1478	6K04 =	175-1526	17K4 =	175-1575	48K7 =	175-1624	137K =	175-1673
2K15 =	175-1479	6K19 =	175-1527	17K8 =	175-1576	49K9 =	175-1625	140K =	175-1674
2K21 =	175-1480	6K34 =	175-1528	18K2 =	175-1577	51K1 =	175-1626	143K =	175-1675
2K26 =	175-1481	6K49 =	175-1531	18K7 =	175-1579	52K3 =	175-1627	147K =	175-1676
2K32 =	175-1482	6K65 =	175-1532	19K1 =	175-1581	53K6 =	175-1628	150K =	175-1677
2K37 =	175-1483	6K81 =	175-1533	19K6 =	175-1582	54K9 =	175-1629	154K =	175-1678
2K43 =	175-1484	6K98 =	175-1534	20K =	175-1583	56K2 =	175-1631	158K =	175-1679
2K49 =	175-1485	7K15 =	175-1535	20K5 =	175-1584	57K6 =	175-1632	162K =	175-1680
2K55 =	175-1486	7K32 =	175-1536	21K =	175-1585	59K =	175-1634	165K =	175-1681
2K61 =	175-1488	7K5 =	175-1537	22K1 =	175-1586	60K4 =	175-1635	169K =	175-1683
2K67 =	175-1489	7K68 =	175-1538	21K5 =	175-1587	61K9 =	175-1636	174K =	175-1684
2K74 =	175-1490	7K87 =	175-1539	22K6 =	175-1588	63K4 =	175-1637	178K =	175-1685
2K8 =	175-1491	8K06 =	175-1540	23K2 =	175-1589	64K9 =	175-1638	182K =	175-1686
2K87 =	175-1492	8K25 =	175-1541	23K7 =	175-1590	66K5 =	175-1639	187K =	175-1687
2K94 =	175-1493	8K45 =	175-1543	24K3 =	175-1592	68K1 =	175-1640	191K =	175-1688
3K01 =	175-1494	8K66 =	175-1544	24K9 =	175-1593	69K8 =	175-1641	196K =	175-1689
3K09 =	175-1495	8K87 =	175-1545	25K5 =	175-1594	71K5 =	175-1642	200K =	175-1690
3K16 =	175-1496	9K09 =	175-1546	26K1 =	175-1595	73K2 =	175-1643	205K =	175-1691
3K24 =	175-1497	9K31 =	175-1547	26K7 =	175-1596	75K =	175-1644	210K =	175-1692
3K32 =	175-1498	9K53 =	175-1548	27K4 =	175-1597	76K8 =	175-1646	215K =	175-1693
3K4 =	175-1500	9K76 =	175-1549	28K =	175-1598	78K7 =	175-1647	221K =	175-1695
3K48 =	175-1501	10K =	175-1550	28K7 =	175-1599	80K6 =	175-1648	226K =	175-1696
3K57 =	175-1502	10K2 =	175-1551	29K4 =	175-1600	82K5 =	175-1649	232K =	175-1697
3K65 =	175-1503	10K5 =	175-1552	30K1 =	175-1601	84K5 =	175-1650	237K =	175-1698
3K74 =	175-1504	10K7 =	175-1553	30K9 =	175-1602	86K6 =	175-1651	243K =	175-1699
3K83 =	175-1506	11K =	175-1555	31K6 =	175-1603	88K7 =	175-1652	249K =	175-1701
3K92 =	175-1507	11K3 =	175-1556	32K4 =	175-1604	90K9 =	175-1653	255K =	175-1702
4K02 =	175-1508	11K5 =	175-1557	33K2 =	175-1605	93K1 =	175-1654	267K =	175-1703
4K12 =	175-1509	11K8 =	175-1558	34K =	175-1606	95K3 =	175-1655	301K =	175-1704
4K22 =	175-1510	12K1 =	175-1559	34K8 =	175-1607	97K6 =	175-1656	332K =	175-1705
4K32 =	175-1511	12K4 =	175-1560	35K7 =	175-1609	100K =	175-1658	357K =	175-1706
4K42 =	175-1512	12K7 =	175-1561	36K5 =	175-1611	102K =	175-1659	392K =	175-1707
4K53 =	175-1513	13K =	175-1562	37K4 =	175-1612	105K =	175-1660	432K =	175-1708
4K64 =	175-1514	13K3 =	175-1563	38K3 =	175-1613	107K =	175-1661	475K =	175-1709
4K75 =	175-1515	13K7 =	175-1564	39K2 =	175-1614	110K =	175-1662	511K =	175-1710
4K87 =	175-1516	14K =	175-1565	40K2 =	175-1615	113K =	175-1663	562K =	175-1711
4K99 =	175-1518	14K3 =	175-1567	41K2 =	175-1616	115K =	175-1664	619K =	175-1713
5K11 =	175-1519	14K7 =	175-1568	42K2 =	175-1617	118K =	175-1665	681K =	175-1714
5K23 =	175-1520	15K =	175-1569	43K2 =	175-1618	121K =	175-1666	750K =	175-1715
5K36 =	175-1521	15K4 =	175-1570	44K2 =	175-1619	124K =	175-1667	825K =	175-1716
5K49 =	175-1522	15K8 =	175-1571	45K3 =	175-1620	127K =	175-1668	909K =	175-1717
5K62 =	175-1523	16K2 =	175-1572	46K4 =	175-1622	130K =	175-1671	1M =	175-1718
5K76 =	175-1524	16K5 =	175-1573						

545041

Order Code	Price Each 5+	25+	100+	250+
All Values ●				

0.25 Watt ±0.1% ±15ppm/°C – RC55Y Series

TT electronics Welwyn Components

L=7.2 max, Dia=2.5 max Lead length=30.0min, Lead dia=0.6

- E96 range precision film resistors
- Leaded design with high temperature epoxy coating
- Fully approved to **BSE9111 N001**
- Available to **CECC 40101-004** release

Power rating @ 70°C	250mW (0.125W CECC)	Operating temperature	-55°C to +155°C
Voltage range	200V dc or ac rms	Temperature coefficient	±15ppm/°C

Stocked in the following OHMIC Values:

51R1 =	950-3242	187R =	950-0634	536R =	950-2343	1K5 =	950-0901	4K02 =	950-2203
53R6 =	950-3250	196R =	950-0693	549R =	950-2360	1K54 =	950-0910	4K12 =	950-2211
56R2 =	950-3277	200R =	950-1037	562R =	950-2386	1K58 =	950-0928	4K22 =	950-2220
59R =	950-3285	205R =	950-1053	576R =	950-2408	1K62 =	950-0936	4K32 =	950-2238
61R9 =	950-3307	210R =	950-1096	590R =	950-2424	1K65 =	950-0944	4K42 =	950-2246
64R9 =	950-3315	215R =	950-1118	604R =	950-2513	1K69 =	950-0952	4K53 =	950-2254
68R1 =	950-3331	221R =	950-1150	619R =	950-2530	1K74 =	950-0960	4K64 =	950-2262
71R5 =	950-3340	226R =	950-1177	634R =	950-2556	1K78 =	950-0979	4K75 =	950-2270
75R =	950-3358	232R =	950-1215	681R =	950-2610	1K82 =	950-0987	4K87 =	950-2289
78R7 =	950-3374	237R =	950-1231	698R =	950-2637	1K87 =	950-0995	4K99 =	950-2297
82R5 =	950-3390	243R =	950-1274	715R =	950-2734	1K91 =	950-1002	5K11 =	950-2440
86R6 =	950-3404	249R =	950-1290	732R =	950-2750	1K96 =	950-1010	5K23 =	950-2459
90R9 =	950-3420	255R =	950-1339	750R =	950-2777	2K =	950-1479	5K36 =	950-2467
95R3 =	950-3439	261R =	950-1355	768R =	950-2793	2K05 =	950-1487	5K49 =	950-2475
100R =	949-9865	267R =	950-1363	787R =	950-2815	2K1 =	950-1495	5K62 =	950-2483
102R =	949-9881	274R =	950-1398	806R =	950-2882	2K15 =	950-1509	5K76 =	950-2491
105R =	949-9903	280R =	950-1410	825R =	950-2904	2K21 =	950-1517	5K9 =	950-2505
107R =	949-9920	287R =	950-1428	845R =	950-2920	2K26 =	950-1525	6K04 =	950-2653
110R =	949-9989	301R =	950-1649	866R =	950-2947	2K32 =	950-1533	6K19 =	950-2661
113R =	950-0006	309R =	950-1657	887R =	950-2963	2K37 =	950-1541	6K34 =	950-2670
115R =	950-0022	316R =	950-1681	909R =	950-3030	2K43 =	950-1550	6K49 =	950-2688
118R =	950-0049	324R =	950-1703	931R =	950-3056	2K49 =	950-1568	6K65 =	950-2696
121R =	950-0103	332R =	950-1720	953R =	950-3072	2K55 =	950-1576	6K81 =	950-2718
124R =	950-0120	340R =	950-1746	976R =	950-3099	2K61 =	950-1584	6K98 =	950-2726
127R =	950-0146	348R =	950-1754	1K =	950-0723	2K67 =	950-1592	7K15 =	950-2831
130R =	950-0197	357R =	950-1789	1K02 =	950-0731	2K74 =	950-1606	7K32 =	950-2840
133R =	950-0219	365R =	950-1800	1K05 =	950-0740	2K8 =	950-1614	7K5 =	950-2858
137R =	950-0235	374R =	950-1827	1K07 =	950-0758	2K87 =	950-1622	7K68 =	950-2866
140R =	950-0286	383R =	950-1843	1K1 =	950-0766	2K94 =	950-1630	7K87 =	950-2874
143R =	950-0308	392R =	950-1860	1K13 =	950-0774	3K01 =	950-1886	8K06 =	950-2980
147R =	950-0324	412R =	950-2025	1K15 =	950-0782	3K09 =	950-1894	8K25 =	950-2998
150R =	950-0375	422R =	950-2041	1K18 =	950-0804	3K16 =	950-1908	8K45 =	950-3005
154R =	950-0391	432R =	950-2068	1K21 =	950-0812	3K24 =	950-1916	8K66 =	950-3013
158R =	950-0413	442R =	950-2084	1K24 =	950-0820	3K32 =	950-1924	8K87 =	950-3021
162R =	950-0464	464R =	950-2122	1K27 =	950-0839	3K4 =	950-1932	9K09 =	950-3110
165R =	950-0480	475R =	950-2149	1K3 =	950-0847	3K48 =	950-1940	9K31 =	950-3129
169R =	950-0502	487R =	950-2165	1K33 =	950-0855	3K57 =	950-1959	9K53 =	950-3137
174R =	950-0553	499R =	950-2181	1K37 =	950-0863	3K65 =	950-1967	9K76 =	950-3145
178R =	950-0570	511R =	950-2300	1K4 =	950-0871	3K83 =	950-1983	10K =	949-9938
182R =	950-0618	523R =	950-2327	1K47 =	950-0898	3K92 =	950-1991	10K2 =	949-9946

RoHS ● Compliant ▲ Non-compliant

10K5 =	**949-9954**	22K1 =	**950-1185**	44K2 =	**950-2092**	90K9 =	**950-3048**	187K =	**950-0626**
10K7 =	**949-9962**	21K5 =	**950-1134**	45K3 =	**950-2114**	93K1 =	**950-3064**	191K =	**950-0669**
11K =	**950-0057**	22K6 =	**950-1193**	46K4 =	**950-2130**	95K3 =	**950-3080**	196K =	**950-0685**
11K3 =	**950-0065**	23K2 =	**950-1240**	47K5 =	**950-2157**	97K6 =	**950-3102**	200K =	**950-1029**
11K5 =	**950-0073**	23K7 =	**950-1258**	48K7 =	**950-2173**	100K =	**949-9857**	205K =	**950-1045**
11K8 =	**950-0081**	24K3 =	**950-1304**	49K9 =	**950-2190**	102K =	**949-9873**	210K =	**950-1088**
12K1 =	**950-0154**	24K9 =	**950-1312**	51K1 =	**950-2319**	105K =	**949-9890**	215K =	**950-1100**
12K4 =	**950-0162**	25K5 =	**950-1347**	52K3 =	**950-2335**	107K =	**949-9911**	221K =	**950-1142**
12K7 =	**950-0170**	26K1 =	**950-1371**	53K6 =	**950-2351**	110K =	**949-9970**	226K =	**950-1169**
13K =	**950-0243**	26K7 =	**950-1380**	54K9 =	**950-2378**	115K =	**950-0014**	232K =	**950-1207**
13K3 =	**950-0251**	27K4 =	**950-1401**	56K2 =	**950-2394**	118K =	**950-0030**	237K =	**950-1223**
13K7 =	**950-0260**	28K =	**950-1436**	57K6 =	**950-2416**	121K =	**950-0090**	243K =	**950-1266**
14K =	**950-0332**	28K7 =	**950-1444**	59K =	**950-2432**	124K =	**950-0111**	249K =	**950-1282**
14K3 =	**950-0340**	29K4 =	**950-1460**	60K4 =	**950-2521**	127K =	**950-0138**	255K =	**950-1320**
14K7 =	**950-0359**	30K1 =	**950-1665**	61K9 =	**950-2548**	130K =	**950-0189**	267K =	**950-3161**
15K =	**950-0421**	30K9 =	**950-1673**	63K4 =	**950-2564**	133K =	**950-0200**	301K =	**950-3170**
15K4 =	**950-0430**	31K6 =	**950-1690**	64K9 =	**950-2580**	137K =	**950-0227**	332K =	**950-3188**
15K8 =	**950-0448**	32K4 =	**950-1711**	66K5 =	**950-2602**	140K =	**950-0278**	357K =	**950-3196**
16K2 =	**950-0510**	33K2 =	**950-1738**	68K1 =	**950-2629**	143K =	**950-0294**	392K =	**950-3200**
16K5 =	**950-0529**	34K =	**950-1762**	69K8 =	**950-2645**	147K =	**950-0316**	432K =	**950-3218**
16K9 =	**950-0537**	34K8 =	**950-1770**	71K5 =	**950-2742**	150K =	**950-0367**	475K =	**950-3226**
17K4 =	**950-0588**	35K7 =	**950-1797**	73K2 =	**950-2769**	154K =	**950-0383**	511K =	**950-3234**
17K8 =	**950-0596**	36K5 =	**950-1819**	75K =	**950-2785**	158K =	**950-0405**	562K =	**950-3269**
18K2 =	**950-0642**	37K4 =	**950-1835**	76K8 =	**950-2807**	162K =	**950-0456**	619K =	**950-3293**
18K7 =	**950-0650**	38K3 =	**950-1851**	78K7 =	**950-2823**	165K =	**950-0472**	681K =	**950-3323**
19K1 =	**950-0707**	39K2 =	**950-1878**	80K6 =	**950-2890**	169K =	**950-0499**	750K =	**950-3366**
19K6 =	**950-0715**	40K2 =	**950-2017**	82K5 =	**950-2912**	174K =	**950-0545**	825K =	**950-3382**
20K =	**950-1061**	41K2 =	**950-2033**	84K5 =	**950-2939**	178K =	**950-0561**	909K =	**950-3412**
20K5 =	**950-1070**	42K2 =	**950-2050**	86K6 =	**950-2955**	182K =	**950-0600**	1M =	**950-3153**
21K =	**950-1126**	43K2 =	**950-2076**	88K7 =	**950-2971**				

These products are available to full documented release, upon request.

207176

Order Code	Price Each 1+	10+	25+	50+	100+	500+
51R1 to 357K ●						
392K to 1M ●						

0.5 Watt ±1% – PR5 Series

TT electronics Welwyn Components

L = 9 max, Dia = 3.6 max, Lead length = 19.6 min, Lead dia. = 0.8 nom

Power Rating	500mW	Operating Temperature	-55°C to +155°C
Voltage Rating	350V	Temperature Coefficient	± 15ppm/°C
Tolerance	± 0.1%		

Stocked in the following OHMIC Values:

100R =	**163-4025**	510R =	**163-4042**	2K4 =	**163-4059**	11K =	**163-4077**	47K =	**163-4092**
110R =	**163-4026**	560R =	**163-4043**	2K7 =	**163-4060**	12K =	**163-4078**	51K =	**163-4093**
120R =	**163-4027**	620R =	**163-4044**	3K =	**163-4061**	15K =	**163-4079**	62K =	**163-4096**
150R =	**163-4028**	680R =	**163-4046**	3K3 =	**163-4062**	16K =	**163-4080**	82K =	**163-4099**
180R =	**163-4030**	750R =	**163-4047**	3K6 =	**163-4063**	18K =	**163-4081**	91K =	**163-4101**
200R =	**163-4031**	820R =	**163-4048**	3K9 =	**163-4064**	20K =	**163-4083**	100K =	**163-4102**
220R =	**163-4032**	910R =	**163-4049**	4K3 =	**163-4065**	22K =	**163-4084**	110K =	**163-4103**
240R =	**163-4034**	1K =	**163-4050**	4K7 =	**163-4066**	24K =	**163-4085**	120K =	**163-4104**
270R =	**163-4035**	1K1 =	**163-4051**	5K1 =	**163-4067**	27K =	**163-4086**	150K =	**163-4105**
300R =	**163-4036**	1K2 =	**163-4052**	5K6 =	**163-4068**	30K =	**163-4087**	160K =	**163-4106**
330R =	**163-4037**	1K5 =	**163-4053**	6K2 =	**163-4071**	33K =	**163-4088**	180K =	**163-4107**
360R =	**163-4038**	1K6 =	**163-4054**	7K5 =	**163-4073**	36K =	**163-4089**	200K =	**163-4108**
390R =	**163-4039**	1K8 =	**163-4055**	8K2 =	**163-4074**	39K =	**163-4090**	220K =	**163-4109**
430R =	**163-4040**	2K =	**163-4056**	9K1 =	**163-4075**	43K =	**163-4091**	240K =	**163-4110**
470R =	**163-4041**	2K2 =	**163-4058**	10K =	**163-4076**				

519780

Order Code	Price Each 5+	50+	100+	500+
All Values				

0.5 Watt ±0.02% - CNS020 Series

VISHAY

- High stability nichrome thin film technology
- Compact case size
- Close tolerance, low temperature coefficient
- Recommended for high resistance values

H = 6.62, W = 8.1, D = 2.54
Lead pitch = 5.08, Lead size = 0.508 x 0.254

Power rating @ 70°C	500mW	Temperature coefficient	±10ppm/°C
Resistance tolerance	±0.02%	Max. working voltage	300V
Operating temperature	-55°C to +155°C		

207302

Value	Order Code	Price Each 1+	5+	10+	25+	50+
10K	**171-4086** ●					
100K	**171-4087** ●					
250K	**116-5202** ●					
500K	**116-5204** ●					
1M	**116-5205** ●					
2M	**116-5206** ●					
5M	**116-5207** ●					
10M	**116-5208** ●					

Precision - Wirewound

0.2 Watt ±0.1% – 5E10D Series

RHOPOINT COMPONENTS

L=7.94, Dia.=3.97, Lead length=38 nom., Lead dia.=0.51

- High precision epoxy sealed non-inductive wire wound resistors.
- Ideal for all analogue measuring and reference applications.

Power rating @ 85°C	200mW	Thermal e.m.f	<0.2µV/°C
Max. voltage	175V dc or ac peak	Full load stability	±35ppm/10,000 hrs ±50ppm/26,000 hrs
Operating temperature	-55°C to +125°C		
Temperature coefficient	±3ppm 0°C to +85°C ±5ppm -55°C to +125°C-55°C	No load stability (-55°C to +125°C)	±25ppm/10,000 hrs ±35ppm/26,000 hrs

Stocked in the following OHMIC Values:

120R =	**962-1938**	50R =	**962-2136**	1K =	**962-2160**	10K =	**962-2187**
350R =	**962-1946**	100R =	**962-2144**	5K =	**962-2179**	100K =	**962-2195**
10R =	**962-2128**	250R =	**962-2152**				

207223

Order Code	Price Each 1+	25+	50+	100+	250+
All Values					

UPW25 Series – 0.25 Watt

Tyco Electronics

- Ultra Precision Wire-Wound Resistors
- 0.25 Watt power rating
- ± 5ppm/°C

Power rating @ 125°C	250mW
Temperature coefficient	± 5ppm/°C
Voltage rating	300V
Operating temperature	-55°C to +145°C

Stocked in the following OHMIC Values:

10R =	**175-4843**	250R =	**175-4847**	5K =	**175-4850**
50R =	**175-4844**	350R =	**175-4848**	10K =	**175-4851**
100R =	**175-4845**	1K =	**175-4849**	100K =	**175-4852**
120R =	**175-4846**				

L=9.53mm, Dia.=4.75mm
Lead length=25mm, Lead dia.=0.6mm

544669

Order Code	Price Each 1+	10+	50+	100+	250+
All values ●					

0.33 Watt ±0.1% – 8E16D Series

RHOPOINT COMPONENTS

L=12.7, Dia=6.35, Lead length=38 nom, Lead dia=0.64

- High precision epoxy sealed non-inductive wire wound resistors
- Ideal for all analogue measuring and reference applications.

Power rating @ 85°C	330mW	Full load stability	±35ppm/10,000 hrs ±50ppm/26,000hrs
Temperature coefficient	±3ppm 0°C to +85°C ±5ppm -55°C to +125°C	No load stability (-55°C to 125°C)	±25ppm/10,000 hrs ±35ppm/26,000hrs
Thermal e.m.f	<0.2µV/°C	Operating temperature	-55°C to +125°C
Max. voltage	175V dc or ac peak		

Stocked in the following OHMIC Values:

10R =	**962-1954**	120R =	**962-1997**	1K =	**962-2020**	10K =	**962-2055**	40K =	**962-2098**
20R =	**962-1962**	250R =	**962-2004**	2K =	**962-2039**	350R =	**962-2071**	50K =	**962-2101**
50R =	**962-1970**	500R =	**962-2012**	5K =	**962-2047**	20K =	**962-2080**	100K =	**962-2110**
100R =	**962-1989**								

207164

Order Code	Price Each 1+	25+	50+	100+	250+
Values 10R to 50R ●					
Values 100R to 100K ●					

UPW50 Series – 0.5 Watt

Tyco Electronics

- Ultra Precision Wire-Wound Resistors
- 0.5 Watt power rating
- ± 5ppm/°C

Power rating @ 125°C	500mW
Temperature coefficient	± 5ppm/°C
Voltage rating	400V
Operating temperature	-55°C to +145°C

Stocked in the following OHMIC Values:

10R =	**175-4854**	200R =	**175-4859**	1K =	**175-4863**	20K =	**175-4868**
20R =	**175-4855**	250R =	**175-4860**	2K =	**175-4864**	40K =	**175-4869**
50R =	**175-4856**	350R =	**175-4861**	5K =	**175-4866**	50K =	**175-4870**
100R =	**175-4857**	500R =	**175-4862**	10K =	**175-4867**	100K =	**175-4871**
120R =	**175-4858**						

L=12.7mm, Dia.=6.35mm
Lead length=25mm, Lead dia.=0.81mm

Precision - Wirewound - continued

UPW50 Series – 0.5 Watt - continued

Stocked in the following OHMIC Values: - continued

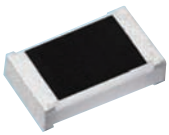
544670

Order Code	Price Each 1+	10+	50+	100+	250+
All values●					

High Frequency Resistors

Thin Film Microwave Resistors

CH Series



	02016	0402
Power rating @ 70°C	30mW	50mW
Voltage rating	30V	37V
Resistance tolerance	± 5%	± 2%
Temperature coefficient	± 100ppm/°C	± 100ppm/°C
Operating Temperature	-55°C to +155°C	

02016 = 0.5 x 0.5 x 0.4mm (HWD)
0402 = 0.5 x 1 x 0.6mm (HWD)

02016

Stocked in the following OHMIC values:

10R = **179-0987** 50R = **171-4022** 150R = **171-4025** 200R = **171-4027** 330R = **171-4031**
18R = **179-0988** 75R = **171-4023** 180R = **171-4026** 250R = **171-4029** 500R = **171-4032**
25R = **179-0989** 100R = **171-4024**

Order Code	Price Each 5+	20+	50+	100+
All Values ●				
	1+	3+		
Resistor Kit				

0402

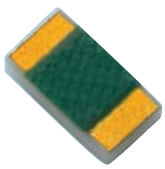
Stocked in the following OHMIC values:

50R = **171-4036** 150R = **171-4039** 250R = **171-4043** 500R = **171-4045** 18R = **179-0991**
75R = **171-4037** 180R = **171-4040** 330R = **171-4044** 10R = **179-0990** 25R = **179-0992**
100R = **171-4038** 200R = **171-4042**

536564

Order Code	Price Each 5+	20+	50+	100+
All Values ●				
	1+	3+		
Resistor Kit				

FC High Frequency Series – Thin Film



FC series chip resistors are designed with low internal reactance. They function as almost pure resistors on a very high range of frequencies. The specialized laser edge trimming allows for precision tolerances to 0.1%

Features:
- Small standard size 0402 case size
- Edge trimmed block resistors

Applications:
- Low noise amplifiers
- Line termination

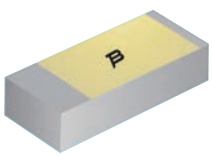
Power rating 50mW Resistance tolerance ±0.1%

423449

Resistance	Order Code	Price Each 1+	25+	100+	250+	500+
50R	110-9049● RL					
100R	110-9051● RL					

CHF2010 Series

10 W Power RF Chip Resistor



- DC to 2.2 GHz
- Terminals for PCB placement
- Low VSWR
- Aluminium Nitride ceramic
- High power
- Applications include RF amplifiers, attenuators, antenna feeds, Wilkinson dividers

Case Size	Dimensions L	W	H	Tolerance
2010	5.08	2.54	0.99	±5%

10 Watt ±5% (2010 Case Size)

Stocked in the following OHMIC Values

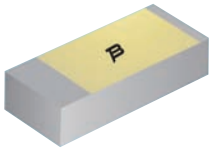
50R = **143-5941** 100R = **143-5940**

484416

	Order Code	Price Each 1+	10+	50+	100+	500+
2010 Case Size	All Values					

CHF1206 Series

20 W Power RF Chip Termination



- DC to 4 GHz
- Terminal for lead attachment
- Low VSWR
- Aluminium Nitride ceramic
- Applications include RF amplifiers, drop in isolators

Case Size	Dimensions L	W	H	Tolerance
1206	3.048	1.575	0.635	±5%

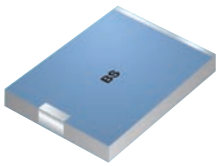
20 Watt ±5% (1206 Case Size)

484417

	Order Code	Price Each 1+	10+	50+	100+	500+
50R	143-5937●					

CHF3725 Series

40W SMT Power RF Chip Termination



- DC to 3 GHz
- Terminals for placement on PCB
- Low VSWR
- Aluminium Nitride ceramic
- Applications include RF amplifiers, attenuators, antenna feeds

Case Size	Dimensions L	W	H	Tolerance
3725	9.39	6.35	0.99	±5%

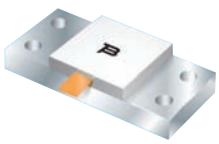
40 Watt ±5% (3725 Case Size)

484422

	Order Code	Price Each 1+	10+	50+	100+	500+
50R	143-5945●					

CHF1901 Series

800 W Power RF Flanged Chip Resistor



- DC to 1 GHz
- Flanged model
- Low VSWR
- Applications include high power RF amplifiers

Case Size	Dimensions L	W	H	Tolerance
1901	48.2	26.4	8.8	±5%

800 Watt ±5% (1901 Case Size)

Stocked in the following OHMIC Values

25R = **143-5938** 50R = **143-5939**

484418

	Order Code	Price Each 1+	10+	50+	100+	500+
1901 Case Size	All Values					

CHF9838 Series

250W Power RF Flanged Chip Termination

- DC to 2.2 GHz
- Flanged model
- Low VSWR
- Aluminium Nitride ceramic
- Applications include high power RF transmission

Case Size	Dimensions L	W	H	Tolerance
9838	24.77	9.53	3.79	±5%

250 Watt ±5% (9838 Case Size)

484423

	Order Code	Price Each 1+	10+	50+	100+	500+
50R	143-5946●					

Low Ohmic & Current Detect

ERJ Low Ohmic Series

Thick Film Chip Resistors

- Low Resistance Value
- Small size and lightweight
- High reliability
- Suitable for both reflow and flow soldering
- AECQ-200 Automotive Approved

Series	Case Style	Power Rating	Tolerance	Temperature Coefficient	Temperature Range
ERJ2BW	0402	125mW	± 1%	± 300ppm/°C	-55°C to +125°C
ERJ3R	0603	100mW	± 1%	± 300ppm/°C	-55°C to +125°C
ERJ3BQ (0.22Ω to 0.91Ω)	0603	200mW	± 1%	± 300ppm/°C	-55°C to +125°C

RoHS ● Compliant ▲ Non-compliant

Series	Case Style	Power Rating	Tolerance	Temperature Coefficient	Temperature Range
ERJ3BQ (1Ω to 9.1Ω)	0603	200mW	± 1%	± 200ppm/°C	-55°C to +125°C
ERJ3BS	0603	200mW	± 1%	± 300ppm/°C	-55°C to +125°C
ERJ3BW	0603	250mW	± 1%	± 250ppm/°C	-55°C to +155°C
ERJ6BQ (0.22Ω to 0.91Ω)	0805	250mW	± 1%	± 250ppm/°C	-55°C to +125°C
ERJ6BQ (1Ω to 9.1Ω)	0805	250mW	± 1%	± 200ppm/°C	-55°C to +125°C
ERJ6RQ (0.22Ω to 0.91Ω)	0805	125mW	± 1%	± 250ppm/°C	-55°C to +125°C
ERJ6RQ (1Ω to 9.1Ω)	0805	125mW	± 1%	± 200ppm/°C	-55°C to +125°C
ERJL06	0805	125mW	± 1%	± 100ppm/°C	-55°C to +125°C
ERJ6R	0805	125mW	± 1%	± 250ppm/°C	-55°C to +125°C
ERJ6B	0805	250mW	± 1%	± 250ppm/°C	-55°C to +125°C
ERJ6BW	0805	0.25W	± 1%	± 300ppm/°C	-55°C to +155°C
ERJL08	1206	250mW	± 1%	± 100ppm/°C	-55°C to +125°C
ERJ8R	1206	250mW	± 1%	± 250ppm/°C	-55°C to +125°C
ERJ8B	1206	330mW	± 1%	± 250ppm/°C	-55°C to +125°C
ERJ8BW	1206	0.33W	± 1%	± 200ppm/°C	-55°C to +155°C
ERJ8BQ (0.22Ω to 0.91Ω)	1206	330mW	± 1%	± 250ppm/°C	-55°C to +125°C
ERJ8BQ (1Ω to 9.1Ω)	1206	330mW	± 1%	± 200ppm/°C	-55°C to +125°C
ERJ8RQ (0.22Ω to 0.91Ω)	1206	250mW	± 1%	± 250ppm/°C	-55°C to +125°C
ERJ8RQ (1Ω to 9.1Ω)	1206	250mW	± 1%	± 200ppm/°C	-55°C to +125°C
ERJ14R	1210	250mW	± 1%	± 200ppm/°C	-55°C to +125°C
ERJL14	1210	330mW	± 1%	± 300ppm/°C	-55°C to +125°C
ERJ14B	1210	500mW	± 1%	± 200ppm/°C	-55°C to +125°C
ERJL12	1812	500mW	± 1%	± 300ppm/°C	-55°C to +125°C
ERJ1	2512	1W	± 1%	± 200ppm/°C	-55°C to +125°C
ERJ1TRQ (0.22Ω to 0.91Ω)	2512	1W	± 1%	± 200ppm/°C	-55°C to +125°C
ERJ1TRQ (1Ω to 9.1Ω)	2512	1W	± 1%	± 100ppm/°C	-55°C to +125°C

ERJ2BW Series

Stocked in the following OHMIC values:

0R047 = **157-7490** 0R056 = **157-7492** 0R075 = **157-7495** 0R082 = **157-7496** 0R091 = **157-7497**
0R051 = **157-7491** 0R062 = **157-7493**

Price Each

Order Code	1+	10+	100+	500+	1K+
All Values ●					

ERJ3R Series

Stocked in the following OHMIC values:

0R1 = **171-7759** 0R27 = **171-7764** 0R68 = **171-7770** 1R8 = **171-7775** 4R7 = **171-7781**
0R12 = **171-7760** 0R33 = **171-7766** 0R82 = **171-7771** 2R2 = **171-7776** 5R6 = **171-7782**
0R15 = **171-7761** 0R39 = **171-7767** 1R = **171-7772** 2R7 = **171-7778** 6R8 = **171-7783**
0R18 = **171-7762** 0R47 = **171-7768** 1R2 = **171-7773** 3R3 = **171-7779** 8R2 = **171-7784**
0R22 = **171-7763** 0R56 = **171-7769** 1R5 = **171-7774** 3R9 = **171-7780**

Price Each

Order Code	5+	50+	100+	500+	5K+
All Values ●					

ERJ3BQ Series

Stocked in the following OHMIC values:

0R22 = NEW **189-2883** 0R56 = NEW **189-2894** 1R5 = NEW **189-2906** 3R9 = NEW **189-2917**
0R24 = NEW **189-2884** 0R62 = NEW **189-2895** 1R6 = NEW **189-2907** 4R3 = NEW **189-2918**
0R27 = NEW **189-2886** 0R68 = NEW **189-2896** 1R8 = NEW **189-2908** 4R7 = NEW **189-2919**
0R3 = NEW **189-2887** 0R75 = NEW **189-2898** 2R = NEW **189-2909** 5R1 = NEW **189-2920**
0R33 = NEW **189-2888** 0R82 = NEW **189-2899** 2R2 = NEW **189-2910** 5R6 = NEW **189-2921**
0R36 = NEW **189-2889** 0R91 = NEW **189-2900** 2R4 = NEW **189-2911** 6R2 = NEW **189-2922**
0R39 = NEW **189-2890** 1R = NEW **189-2901** 2R7 = NEW **189-2912** 6R8 = NEW **189-2923**
0R43 = NEW **189-2891** 1R1 = NEW **189-2902** 3R = NEW **189-2913** 7R5 = NEW **189-2924**
0R47 = NEW **189-2892** 1R2 = NEW **189-2904** 3R3 = NEW **189-2914** 8R2 = NEW **189-2925**
0R51 = NEW **189-2893** 1R3 = NEW **189-2905** 3R6 = NEW **189-2916** 9R1 = NEW **189-2926**

Price Each

Order Code	5+	50+	100+	500+	1K+
All Values ●					

ERJ3BS Series

Stocked in the following OHMIC values:

0R1 = NEW **189-2928** 0R15 = NEW **189-2930** 0R18 = NEW **189-2931** 0R2 = NEW **189-2932**
0R12 = NEW **189-2929**

Price Each

Order Code	5+	50+	100+	500+	1K+
All Values ●					

ERJ3BW Series

Stocked in the following OHMIC values:

0R02 = **179-8577** 0R033 = **179-8582** 0R051 = **179-8588** 0R075 = **179-8592**
0R022 = **179-8578** 0R036 = **179-8584** 0R056 = **179-8589** 0R082 = **179-8593**
0R024 = **179-8579** 0R039 = **179-8585** 0R062 = **179-8590** 0R091 = **179-8594**
0R027 = **179-8580** 0R043 = **179-8586** 0R068 = **179-8591** 0R1 = **179-8596**
0R03 = **179-8581** 0R047 = **179-8587**

Order Code	5+	50+	100+	500+	5K+
All Values ●					

ERJ6BQ Series

Stocked in the following OHMIC values:

0R24 = NEW **189-2933** 0R62 = NEW **189-2938** 1R6 = NEW **189-2945** 4R3 = NEW **189-2950**
0R3 = NEW **189-2934** 0R75 = NEW **189-2941** 2R = NEW **189-2946** 5R1 = NEW **189-2951**
0R36 = NEW **189-2935** 0R91 = NEW **189-2942** 2R4 = NEW **189-2947** 6R2 = NEW **189-2953**
0R43 = NEW **189-2936** 1R1 = NEW **189-2943** 3R = NEW **189-2948** 7R5 = NEW **189-2954**
0R51 = NEW **189-2937** 1R3 = NEW **189-2944** 3R6 = NEW **189-2949** 9R1 = NEW **189-2955**

Price Each

Order Code	5+	50+	100+	500+	1K+
All Values ●					

ERJ6RQ Series

Stocked in the following OHMIC values:

0R24 = NEW **189-2956** 0R3 = NEW **189-2957** 0R36 = NEW **189-2958** 0R43 = NEW **189-2959**
0R51 = NEW **189-2960** 1R1 = NEW **189-2965** 2R4 = NEW **189-2969** 5R1 = NEW **189-2973**
0R62 = NEW **189-2961** 1R3 = NEW **189-2966** 3R = NEW **189-2970** 6R2 = NEW **189-2974**
0R75 = NEW **189-2962** 1R6 = NEW **189-2967** 3R6 = NEW **189-2971** 7R5 = NEW **189-2975**
0R91 = NEW **189-2963** 2R = NEW **189-2968** 4R3 = NEW **189-2972** 9R1 = NEW **189-2977**

Price Each

Order Code	5+	50+	100+	500+	1K+
All Values ●					

ERJL06 Series

Stocked in the following OHMIC values:

0R047 = **157-7551** 0R1 = **157-7553**

Price Each

Order Code	1+	10+	100+	500+	1K+
All Values ●					

ERJ6R Series

Stocked in the following OHMIC values:

0R1 = **171-7785** 0R27 = **171-7792** 0R68 = **171-7797** 1R8 = **171-7802** 4R7 = **171-7808**
0R12 = **171-7786** 0R33 = **171-7793** 0R82 = **171-7798** 2R2 = **171-7803** 5R6 = **171-7809**
0R15 = **171-7787** 0R39 = **171-7794** 1R = **171-7799** 2R7 = **171-7804** 6R8 = **171-7810**
0R18 = **171-7788** 0R47 = **171-7795** 1R2 = **171-7800** 3R3 = **171-7805** 8R2 = **171-7811**
0R22 = **171-7791** 0R56 = **171-7796** 1R5 = **171-7801** 3R9 = **171-7806**

Price Each

Order Code	5+	50+	100+	500+	5K+
All Values ●					

ERJ6B Series

Stocked in the following OHMIC values:

0R1 = **171-7812** 0R27 = **171-7817** 0R68 = **171-7824** 1R8 = **171-7829** 4R7 = **171-7835**
0R12 = **171-7813** 0R33 = **171-7818** 0R82 = **171-7825** 2R2 = **171-7830** 5R6 = **171-7836**
0R15 = **171-7814** 0R39 = **171-7821** 1R = **171-7826** 2R7 = **171-7831** 6R8 = **171-7837**
0R18 = **171-7815** 0R47 = **171-7822** 1R2 = **171-7827** 3R3 = **171-7833** 8R2 = **171-7838**
0R22 = **171-7816** 0R56 = **171-7823** 1R5 = **171-7828** 3R9 = **171-7834**

Price Each

Order Code	5+	50+	100+	500+	5K+
All Values ●					

ERJ6BW Series

Stocked in the following OHMIC values:

0R01 = **157-7498** 0R018 = **157-7506** 0R027 = **157-7510** 0R051 = **179-8597** 0R075 = **179-8602**
0R011 = **157-7500** 0R02 = **157-7507** 0R03 = **157-7511** 0R056 = **179-8598** 0R082 = **179-8603**
0R012 = **157-7501** 0R022 = **157-7508** 0R033 = **157-7512** 0R062 = **179-8599** 0R091 = **179-8604**
0R013 = **157-7502** 0R024 = **157-7509** 0R043 = **157-7515** 0R068 = **179-8600** 0R1 = **179-8605**
0R015 = **157-7503**

Price Each

Order Code	1+	10+	100+	500+	1K+
All Values ●					

ERJL08 Series

Stocked in the following OHMIC values:

0R047 = **157-7555** 0R05 = **157-7556** 0R1 = **157-7557**

Price Each

Order Code	1+	10+	100+	500+	1K+
All Values ●					

ERJ8R Series

Stocked in the following OHMIC values:

0R1 = **171-7839** 0R27 = **171-7845** 0R68 = **171-7850** 1R8 = **171-7855** 4R7 = **171-7861**
0R12 = **171-7840** 0R33 = **171-7846** 0R82 = **171-7851** 2R2 = **171-7857** 5R6 = **171-7862**
0R15 = **171-7841** 0R39 = **171-7847** 1R = **171-7852** 2R7 = **171-7858** 6R8 = **171-7863**
0R18 = **171-7842** 0R47 = **171-7848** 1R2 = **171-7853** 3R3 = **171-7859** 8R2 = **171-7864**
0R22 = **171-7843** 0R56 = **171-7849** 1R5 = **171-7854** 3R9 = **171-7860**

Price Each

Order Code	5+	50+	100+	500+	5K+
All Values ●					

ERJ8B Series

Stocked in the following OHMIC values:

0R1 = **171-7865** 0R27 = **171-7872** 0R68 = **171-7877** 1R8 = **171-7883** 4R7 = **171-7888**
0R12 = **171-7866** 0R33 = **171-7873** 0R82 = **171-7878** 2R2 = **171-7884** 5R6 = **171-7889**
0R15 = **171-7867** 0R39 = **171-7874** 1R = **171-7879** 2R7 = **171-7885** 6R8 = **171-7890**
0R18 = **171-7869** 0R47 = **171-7875** 1R2 = **171-7880** 3R3 = **171-7886** 8R2 = **171-7891**
0R22 = **171-7871** 0R56 = **171-7876** 1R5 = **171-7882** 3R9 = **171-7887**

Price Each

Order Code	5+	50+	100+	500+	5K+
All Values ●					

ERJ8BW Series

Stocked in the following OHMIC values:

0R01 = **157-7518** 0R016 = **157-7523** 0R03 = **157-7531** 0R047 = **157-7536** 0R075 = **157-7544**
0R011 = **157-7519** 0R018 = **157-7524** 0R033 = **157-7532** 0R051 = **157-7537** 0R082 = **157-7545**
0R012 = **157-7520** 0R022 = **157-7526** 0R036 = **157-7533** 0R056 = **157-7539** 0R091 = **157-7546**
0R013 = **157-7521** 0R024 = **157-7527** 0R039 = **157-7534** 0R062 = **157-7540** 0R1 = **157-7547**
0R015 = **157-7522** 0R027 = **157-7528** 0R043 = **157-7535** 0R068 = **157-7541**

Price Each

Order Code	1+	10+	100+	500+	1K+
All Values ●					

ERJ8BQ Series

Stocked in the following OHMIC values:

0R24 = NEW **189-2978** 0R36 = NEW **189-2980** 0R51 = NEW **189-2982** 0R75 = NEW **189-2984**
0R3 = NEW **189-2979** 0R43 = NEW **189-2981** 0R62 = NEW **189-2983** 0R91 = NEW **189-2985**

Low Ohmic & Current Detect - continued

ERJ Low Ohmic Series - continued

Thick Film Chip Resistors - continued

1R1 = NEW 189-2986 2R = NEW 189-2991 3R6 = NEW 189-2994 6R2 = NEW 189-2997
1R3 = NEW 189-2987 2R4 = NEW 189-2992 4R3 = NEW 189-2995 7R5 = NEW 189-2998
1R6 = NEW 189-2989 3R = NEW 189-2993 5R1 = NEW 189-2996 9R1 = NEW 189-2999

Price Each

Order Code	5+	50+	100+	500+	1K+
All Values ●					

ERJ8RQ Series

Stocked in the following OHMIC values:

0R24 = NEW 189-3000 0R62 NEW 189-3006 1R6 NEW 189-3011 4R3 NEW 189-3017
0R3 NEW 189-3001 0R75 NEW 189-3007 2R NEW 189-3012 5R1 NEW 189-3018
0R36 NEW 189-3003 0R91 NEW 189-3008 2R4 NEW 189-3013 6R2 NEW 189-3019
0R43 NEW 189-3004 1R1 NEW 189-3009 3R NEW 189-3015 7R5 NEW 189-3020
0R51 NEW 189-3005 1R3 NEW 189-3010 3R6 NEW 189-3016 9R1 NEW 189-3021

Price Each

Order Code	5+	50+	100+	500+	1K+
All Values ●					

ERJ14R Series

Stocked in the following OHMIC values:

0R1 = 171-7892 0R27 = 171-7898 0R68 = 171-7904 1R8 = 171-7909 4R7 = 171-7915
0R12 = 171-7894 0R33 = 171-7899 0R82 = 171-7905 2R2 = 171-7910 5R6 = 171-7916
0R15 = 171-7895 0R39 = 171-7901 1R = 171-7906 2R7 = 171-7912 6R8 = 171-7917
0R18 = 171-7896 0R47 = 171-7902 1R2 = 171-7907 3R3 = 171-7913 8R2 = 171-7918
0R22 = 171-7897 0R56 = 171-7903 1R5 = 171-7908 3R9 = 171-7914

Price Each

Order Code	5+	50+	100+	500+	5K+
All Values ●					

ERJL14 Series

Stocked in the following OHMIC values:

0R02 = 157-7558 0R033 = 157-7560 0R039 = 157-7561 0R05 = 157-7563 0R1 = 157-7564
0R022 = 157-7559

Price Each

Order Code	1+	10+	100+	500+	1K+
All Values ●					

ERJ14B Series

Stocked in the following OHMIC values:

0R1 = 171-7919 0R27 = 171-7925 0R68 = 171-7930 1R8 = 171-7936 4R7 = 171-7941
0R12 = 171-7920 0R33 = 171-7926 0R82 = 171-7931 2R2 = 171-7937 5R6 = 171-7942
0R15 = 171-7921 0R39 = 171-7927 1R = 171-7932 2R7 = 171-7938 6R8 = 171-7943
0R18 = 171-7922 0R47 = 171-7928 1R2 = 171-7933 3R3 = 171-7939 8R2 = 171-7944
0R22 = 171-7924 0R56 = 171-7929 1R5 = 171-7934 3R9 = 171-7940

Price Each

Order Code	5+	50+	100+	500+	5K+
All Values ●					

ERJL12 Series

Stocked in the following OHMIC values:

0R02 = 157-7565 0R033 = 157-7568 0R039 = 157-7569 0R047 = 157-7570 0R05 = 157-7571
0R022 = 157-7567

Price Each

Order Code	1+	10+	100+	500+	1K+
All Values ●					

ERJ1 Series

Stocked in the following OHMIC values:

0R1 = 171-7945 0R27 = 171-7951 0R68 = 171-7956 1R8 = 171-7963 4R7 = 171-7968
0R12 = 171-7946 0R33 = 171-7952 0R82 = 171-7957 2R2 = 171-7964 5R6 = 171-7969
0R15 = 171-7948 0R39 = 171-7953 1R = 171-7958 2R7 = 171-7965 6R8 = 171-7970
0R18 = 171-7949 0R47 = 171-7954 1R2 = 171-7961 3R3 = 171-7966 8R2 = 171-7971
0R22 = 171-7950 0R56 = 171-7955 1R5 = 171-7962 3R9 = 171-7967

Price Each

Order Code	5+	50+	100+	500+	4K+
All Values ●					

ERJ1TRQ Series

Stocked in the following OHMIC values:

0R24 = NEW 189-3022 0R62 = NEW 189-3028 1R6 = NEW 189-3033 4R3 = NEW 189-3039
0R3 = NEW 189-3023 0R75 = NEW 189-3029 2R = NEW 189-3034 5R1 = NEW 189-3041
0R36 = NEW 189-3024 0R91 = NEW 189-3030 2R4 = NEW 189-3035 6R2 = NEW 189-3042
0R43 = NEW 189-3025 1R1 = NEW 189-3031 3R = NEW 189-3036 7R5 = NEW 189-3043
0R51 = NEW 189-3027 1R3 = NEW 189-3032 3R6 = NEW 189-3037 9R1 = NEW 189-3044

527191

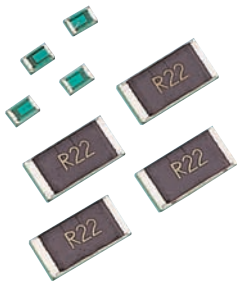
Price Each

Order Code	5+	50+	100+	500+	1K+
All Values ●					

RL73 Series

Current Sense Resistors

SMD Tyco Electronics



- Complete range from 0R1 to 1R
- Supplied on tape - part marked
- Nickel barrier layer

Case Size	Power rating @ 70°C	Resistance Tolerance	Temperature Coefficient
0603	100mW	5%	200ppm/°C
0805	125mW	5%	200ppm/°C
1206	250mW	5%	200ppm/°C
2512	1W	5%	200ppm/°C
CRL 1220(0805)	250mW	5%	200ppm/°C

Stocked in the following OHMIC values:

0603 Case Size

0R1 = 886-7364 0R15 = 886-7380 0R22 = 886-7402 0R47 = 886-7445 0R68 = 886-7461
0R12 = 886-7372 0R18 = 886-7399 0R27 = 886-7410 0R56 = 886-7453 0R82 = 886-7470

0805 Case Size

0R1 = 886-7488 0R18 = 886-7518 0R27 = 886-7534 0R39 = 886-7550 0R56 = 886-7577
0R15 = 886-7500 0R22 = 886-7526 0R33 = 886-7542 0R47 = 886-7569 0R68 = 886-7585

1206 Case Size

0R1 = 886-7607 0R18 = 886-7631 0R33 = 886-7666 0R47 = 886-7682 0R68 = 886-7704
0R12 = 886-7615 0R22 = 886-7640 0R39 = 886-7674 0R56 = 886-7690 0R82 = 886-7712
0R15 = 886-7623 0R27 = 886-7658

2512 Case Size

0R1 = 117-4007 0R18 = 117-4012 0R33 = 117-4015 0R56 = 117-4018 0R1 = 886-7720
0R12 = 117-4008 0R22 = 117-4013 0R39 = 117-4016 0R68 = 117-4019 10R = 886-7739
0R15 = 117-4011 0R27 = 117-4014 0R47 = 117-4017 0R82 = 117-4020

CRL1220 Case Size

1R = 117-3993 1R5 = 117-3995

207334

Price Each

	Order Code	25+	100+	500+	1K+
0603 Case Size	All Values ● RL				
0805 Case Size	All Values ● RL				
1206 Case Size	All Values ● RL				
CRL1220 Case Size	All Values ● RL				
2512 Case Size	All Values ● RL				

TE RL73 Series

NEW

Tyco Electronics

Features
- Up to 2 Watts at 70°C
- Values down to R10
- Tolerance 5%
- Ideal for current detection
- Value marked on resistor

SMD

This thick film chip resistor for current sensing positions. It has a special metal glaze resistive element and a nickel barrier layer beneath the solder to prolong terminal life. Following the developments by semiconductor manufacturers in the production of a range of IC's for battery charge management and low voltage power supplies, the RL73 Series satisfies the demand for a low ohmic shunt resistor to act as a current sensor

660488

Resistance 0402, 0.125W	Temperature Cofficient	Mfftrs list no	Order Code	Price Each 20+	200+	1K+	2K5+
0R056	± 400ppm/°C	RLP73M1ER056JTD	211-6361●				
0R056	± 400ppm/°C	RLP73M1ER056JTD	211-6361●				
0R068	± 400ppm/°C	RLP73M1ER068JTD	211-6362●				
0R082	± 400ppm/°C	RLP73M1ER082JTD	211-6363●				
0R1	± 300ppm/°C	RLP73N1ER10JTD	211-6365●				
0R12	± 300ppm/°C	RLP73N1ER12JTD	211-6366●				
0R15	± 300ppm/°C	RLP73N1ER15JTD	211-6367●				
0R18	± 300ppm/°C	RLP73N1ER18JTD	211-6368●				
0R22	± 300ppm/°C	RLP73N1ER22JTD	211-6369●				
0R27	± 300ppm/°C	RLP73N1ER27JTD	211-6370●				
0R33	± 300ppm/°C	RLP73N1ER33JTD	211-6371●				
0R39	± 300ppm/°C	RLP73N1ER39JTD	211-6372●				
0R47	± 300ppm/°C	RLP73N1ER47JTD	211-6373●				
0R56	± 200ppm/°C	RLP73K1ER56JTD	211-6374●				
0R68	± 200ppm/°C	RLP73K1ER68JTD	211-6375●				
0R82	± 200ppm/°C	RLP73K1ER82JTD	211-6377●				

RoHS ● Compliant ▲ Non-compliant

0603, 0.125W			
0R056	± 400ppm/°C	RLP73M1JR056JTD	211-6378●
0R068	± 400ppm/°C	RLP73M1JR068JTD	211-6379●
0R082	± 400ppm/°C	RLP73M1JR082JTD	211-6380●
0R1	± 300ppm/°C	RLP73N1JR10JTD	211-6381●
0R12	± 300ppm/°C	RLP73N1JR12JTD	211-6382●
0R15	± 300ppm/°C	RLP73N1JR15JTD	211-6383●
0R18	± 300ppm/°C	RLP73N1JR18JTD	211-6384●
0R22	± 300ppm/°C	RLP73N1JR22JTD	211-6385●
0R27	± 300ppm/°C	RLP73N1JR27JTD	211-6386●
0R33	± 300ppm/°C	RLP73N1JR33JTD	211-6387●
0R39	± 300ppm/°C	RLP73N1JR39JTD	211-6389●
0R47	± 300ppm/°C	RLP73N1JR47JTD	211-6391●
0R56	± 200ppm/°C	RLP73K1JR56JTD	211-6392●
0R68	± 200ppm/°C	RLP73K1JR68JTD	211-6393●
0R82	± 200ppm/°C	RLP73K1JR82JTD	211-6394●
0805, 0.25W			
0R056	± 400ppm/°C	RLP73M2AR056JTD	211-6395●
0R068	± 400ppm/°C	RLP73M2AR068JTD	211-6396●
0R082	± 400ppm/°C	RLP73M2AR082JTD	211-6397●
0R1	± 300ppm/°C	RLP73N2AR10JTD	211-6398●
0R12	± 300ppm/°C	RLP73N2AR12JTD	211-6399●
0R15	± 300ppm/°C	RLP73N2AR15JTD	211-6400●
0R18	± 300ppm/°C	RLP73N2AR18JTD	211-6401●
0R22	± 300ppm/°C	RLP73N2AR22JTD	211-6402●
0R27	± 300ppm/°C	RLP73N2AR27JTD	211-6403●
0R33	± 300ppm/°C	RLP73N2AR33JTD	211-6404●
0R39	± 300ppm/°C	RLP73N2AR39JTD	211-6405●
0R47	± 300ppm/°C	RLP73N2AR47JTD	211-6407●
0R56	± 200ppm/°C	RLP73K2AR56JTD	211-6408●
0R68	± 200ppm/°C	RLP73K2AR68JTD	211-6409●
0R82	± 200ppm/°C	RLP73K2AR82JTD	211-6410●
1206, 0.5W			
0R01	± 600ppm/°C	RLP73V2BR010JTD	211-6411●
0R012	± 600ppm/°C	RLP73V2BR012JTD	211-6412●
0R015	± 600ppm/°C	RLP73V2BR015JTD	211-6413●
0R018	± 600ppm/°C	RLP73V2BR018JTD	211-6414●
0R022	± 400ppm/°C	RLP73M2BR022JTD	211-6415●
0R027	± 400ppm/°C	RLP73M2BR027JTD	211-6416●
0R033	± 400ppm/°C	RLP73M2BR033JTD	211-6417●
0R039	± 400ppm/°C	RLP73M2BR039JTD	211-6419●
0R047	± 400ppm/°C	RLP73M2BR047JTD	211-6421●
0R056	± 300ppm/°C	RLP73N2BR056JTD	211-6422●
0R068	± 300ppm/°C	RLP73N2BR068JTD	211-6423●
0R082	± 300ppm/°C	RLP73N2BR082JTD	211-6424●
0R1	± 200ppm/°C	RLP73K2BR10JTD	211-6425●
0R12	± 200ppm/°C	RLP73K2BR12JTD	211-6426●
0R15	± 200ppm/°C	RLP73K2BR15JTD	211-6427●
0R18	± 200ppm/°C	RLP73K2BR18JTD	211-6428●
0R22	± 200ppm/°C	RLP73K2BR22JTD	211-6429●
0R27	± 200ppm/°C	RLP73K2BR27JTD	211-6430●
0R33	± 200ppm/°C	RLP73K2BR33JTD	211-6432●
0R39	± 200ppm/°C	RLP73K2BR39JTD	211-6433●
0R47	± 200ppm/°C	RLP73K2BR47JTD	211-6434●
0R56	± 200ppm/°C	RLP73K2BR56JTD	211-6435●
0R68	± 200ppm/°C	RLP73K2BR68JTD	211-6436●
0R82	± 200ppm/°C	RLP73K2BR82JTD	211-6437●
2512, 2W			
0R01	± 600ppm/°C	RLP73V3AR010JTE	211-6438●
0R012	± 600ppm/°C	RLP73V3AR012JTE	211-6439●
0R015	± 600ppm/°C	RLP73V3AR015JTE	211-6440●
0R018	± 600ppm/°C	RLP73V3AR018JTE	211-6441●
0R022	± 400ppm/°C	RLP73M3AR022JTE	211-6442●
0R027	± 400ppm/°C	RLP73M3AR027JTE	211-6444●
0R033	± 400ppm/°C	RLP73M3AR033JTE	211-6445●
0R039	± 400ppm/°C	RLP73M3AR039JTE	211-6446●
0R047	± 400ppm/°C	RLP73M3AR047JTE	211-6447●
0R056	± 300ppm/°C	RLP73N3AR056JTE	211-6448●
0R068	± 300ppm/°C	RLP73N3AR068JTE	211-6449●
0R082	± 300ppm/°C	RLP73N3AR082JTE	211-6450●
0R1	± 200ppm/°C	RLP73K3AR10JTE	211-6451●
0R12	± 200ppm/°C	RLP73K3AR12JTE	211-6452●
0R15	± 200ppm/°C	RLP73K3AR15JTE	211-6453●
0R18	± 200ppm/°C	RLP73K3AR18JTE	211-6454●
0R22	± 200ppm/°C	RLP73K3AR22JTE	211-6456●
0R27	± 200ppm/°C	RLP73K3AR27JTE	211-6457●
0R33	± 200ppm/°C	RLP73K3AR33JTE	211-6458●
0R39	± 200ppm/°C	RLP73K3AR39JTE	211-6459●
0R47	± 200ppm/°C	RLP73K3AR47JTE	211-6460●
0R56	± 200ppm/°C	RLP73K3AR56JTE	211-6461●
0R68	± 200ppm/°C	RLP73K3AR68JTE	211-6462●
0R82	± 200ppm/°C	RLP73K3AR82JTE	211-6463●

LRCS Series – 0.063 Watt, 0.1 Watt, 0.125 Watt and 0.25 Watt ±1%

- Designed for current sensing in power electronic systems

Case Size	Power Ratings	Temperature Coefficient	Operating Temperature	Tolerance
0402	63mW	R05 - R10: ± 400ppm/°C R101 - R50: ± 300ppm/°C R501 - 1R0: ± 200ppm/°C	-55°C to +155°C	± 1%
0603	100mW	R02 - R05: ± 600ppm/°C R051 - R10: ± 400ppm/°C R101 - R50: ± 300ppm/°C R501 - 1R0: ± 200ppm/°C	-55°C to +155°C	± 1%
0805	<R01: 125mW >R01: 250mW	R02 - R05: ± 600ppm/°C R051 - R10: ± 400ppm/°C R101 - R50: ± 300ppm/°C R501 - 1R0: ± 200ppm/°C	-55°C to +155°C	± 1%

0402 Case Size

Resistance	Mftrs. List No.	Order Code	Price Each 10+	50+	100+	500+	1K+
0.05ohm	LRCS0402-0R05FT5	SMD 150-6118●					
0.07ohm	LRCS0402-0R07FT5	SMD 150-6119●					
0.1ohm	LRCS0402-0R1FT5	SMD 150-6120●					
0.2ohm	LRCS0402-0R2FT5	SMD 150-6121●					
0.33ohm	LRCS0402-0R33FT5	SMD 150-6123●					
0.5ohm	LRCS0402-0R5FT5	SMD 150-6124●					
1ohm	LRCS0402-1RFT5	SMD 150-6125●					

0603 Case Size

Resistance	Mftrs. List No.	Order Code	Price Each 10+	50+	100+	500+	1K+
0.025ohm	LRCS0603-0R025FT5	SMD 150-6126●					
0.033ohm	LRCS0603-0R033FT5	SMD 150-6127●					
0.04ohm	LRCS0603-0R04FT5	SMD 150-6128●					
0.05ohm	LRCS0603-0R05FT5	SMD 150-6129●					
0.07ohm	LRCS0603-0R07FT5	SMD 150-6130●					
0.1ohm	LRCS0603-0R1FT5	SMD 150-6131●					
0.2ohm	LRCS0603-0R2FT5	SMD 150-6132●					
0.33ohm	LRCS0603-0R33FT5	SMD 150-6133●					
0.5ohm	LRCS0603-0R5FT5	SMD 150-6135●					
1ohm	LRCS0603-1RFT5	SMD 150-6136●					

0805 Case Size

493830

Resistance	Mftrs. List No.	Order Code	Price Each 10+	50+	100+	500+	1K+
0.025ohm	LRCS0805-0R025FT5	SMD 150-6137●					
0.033ohm	LRCS0805-0R033FT5	SMD 150-6138●					
0.04ohm	LRCS0805-0R04FT5	SMD 150-6139●					
0.05ohm	LRCS0805-0R05FT5	SMD 150-6140●					
0.07ohm	LRCS0805-0R07FT5	SMD 150-6141●					
0.1ohm	LRCS0805-0R1FT5	SMD 150-6142●					
0.2ohm	LRCS0805-0R2FT5	SMD 150-6143●					
0.33ohm	LRCS0805-0R33FT5	SMD 150-6144●					
0.5ohm	LRCS0805-0R5FT5	SMD 150-6145●					
1ohm	LRCS0805-1RFT5	SMD 150-6147●					

PR2010 Series

Low Ohmic Chip Resistors

NEW

- Low resistances applied to current sensing
- High component and equipment realibility
- 2010 Case size

Case Size	Power Rating	Resistance Tolerance	HxWxD (mm)
PR2010	1W	± 1%	0.8x5.1x2.54

618992

Resistance Ω	Mftrs. List No.	Order Code	Price Each 5+	50+	100+	500+	1K+
0.002	PR2010FKE7W0R002L	185-7050●					
0.003	PR2010FKE7W0R003L	185-7051●					
0.004	PR2010FKE7W0R004L	185-7052●					
0.005	PR2010FKE7W0R005L	185-7053●					
0.006	PR2010FKE7W0R006L	185-7054●					

RL Series

Low Ohmic Chip Resistors

- Low resistances applied to current sensing
- High component and equipment reliability

Case Size	Power rating @ 70°C	Resistance Tolerance	HxWxD(mm)
0402	63mW	± 1%	0.35x1x0.5
0603	100mW	± 1%	0.45x1.6x0.8
0805	125mW	± 1%	0.5x2x1.25
1206	250mW	± 1%	0.55x3.1x1.6
2512	1W	± 1%	0.55x6.35x3.2

Stocked in the following OHMIC values:

0402 Case Size

0R1 = **128-4586** 0R18 = **177-9417** 0R33 = **128-4590** 0R47 = **128-4591** 0R68 = **177-9421**
0R12 = **177-9416** 0R22 = **128-4589** 0R39 = **177-9419** 0R56 = **177-9420** 0R82 = **177-9422**
0R15 = **128-4588** 0R27 = **177-9418**

0603 Case Size

0R1 = **806-7821** 0R18 = **177-9426** 0R33 = **806-7856** 0R47 = **806-7864** 0R68 = **177-9430**
0R12 = **177-9423** 0R22 = **806-7848** 0R39 = **177-9428** 0R56 = **177-9429** 0R82 = **177-9431**
0R15 = **177-9425** 0R27 = **177-9427**

0805 Case Size

0R1 = **177-9432** 0R18 = **177-9435** 0R33 = **177-9439** 0R47 = **177-9441** 0R68 = **177-9443**
0R12 = **177-9433** 0R22 = **177-9437** 0R39 = **177-9440** 0R56 = **177-9442** 0R82 = **177-9444**
0R15 = **177-9434** 0R27 = **177-9438**

1206 Case Size

0R1 = **177-9445** 0R18 = **177-9449** 0R33 = **177-9454** 0R47 = **177-9456** 0R68 = **177-9458**
0R12 = **177-9446** 0R22 = **177-9452** 0R39 = **177-9455** 0R56 = **177-9457** 0R82 = **177-9459**
0R15 = **177-9447** 0R27 = **177-9453**

2512 Case Size

0R1 = **177-9460** 0R18 = **177-9464** 0R33 = **177-9467** 0R47 = **177-9469** 0R68 = **177-9471**
0R12 = **177-9462** 0R22 = **177-9465** 0R39 = **177-9468** 0R56 = **177-9470** 0R82 = **177-9472**
0R15 = **177-9463** 0R27 = **177-9466**

554344

	Order Code	Price Each 50+	250+	1K+	5K+
0402 Case Size	All Values ●				
0603 Case Size	All Values ●				
0805 Case Size	All Values ●				
1206 Case Size	All Values ●				
2512 Case Size	All Values ●				

RL **FREE Re-reeling service.** Only buy what you need and improve assembly efficiency. For more information visit **local website**

Surface Mount - Low-Ohmic Value

LRC Series

Range	Case Size	Dimensions L	W	H	Voltage Rating	Tolerance	Power rating @ 70°C	Temperature Coefficient Values	
LRC 32	0402	1	0.5	0.35	100	1%	63W	All	±800ppm/°C
LRC 22	0603	1.6	0.8	0.45	50	1%	100W	0.01R	±1500ppm/°C
								0.1 to 0.22 R	±800ppm/°C
								0.33 to 0.47 R	±600ppm/°C
LRC 12P	0805	2	1.25	0.5	150	1%	125W	0.01 to 0.02 R	±1500ppm/°C
								0.02 to 0.051 R	±1000ppm/°C
								0.051 to 0.1 R	±800ppm/°C
								0.1 to 0.39 R	±600ppm/°C
								0.39 to 0.51 R	300ppm/°C±
								0.51 to 0.68 R	±200ppm/°C
LRC 02P	1206	3.2	1.7	0.65	200	1%	250W	0.01 to 0.02 R	±1500ppm/°C
								0.02 to 0.051 R	±1000ppm/°C
								0.051 to 0.1 R	±800ppm/°C
								0.1 to 0.39 R	±600ppm/°C
								0.39 to 0.51 R	±300ppm/°C
								0.51 to 0.68 R	±200ppm/°C

Operating temperature -55°C to +125°C

LRC32 - 0.063 Watt ±1% (0402 Case Size)

Stocked in the following OHMIC Values:

0R1 = **128-4586** 0R15 = **128-4588** 0R22 = **128-4589** 0R33 = **128-4590** 0R47 = **128-4591**

Order Code	Price Each 10+	50+	100+	1K+	10K+
All Values ● RL					

LRC22 - 0.1 Watt ±1% (0603 Case Size)

5000 per Reel

Stocked in the following OHMIC Values:

0R01 = **806-7767** 0R1 = **806-7821** 0R22 = **806-7848** 0R33 = **806-7856** 0R47 = **806-7864**

Order Code	Price Each 10+	50+	100+	1K+	5K+
Values 0R01 to 0R068 RL					
Values 0R1 to 0R68 RL					

LRC12P - 0.25 Watt ±1% (0805 Case Size)

5000 per Reel

Stocked in the following OHMIC Values:

0R01 = **806-7643** 0R033 = **806-7678** 0R1 = **806-7708** 0R22 = **806-7724** 0R47 = **806-7740**
0R015 = **185-7049** 0R047 = **806-7686** 0R15 = **806-7716** 0R33 = **806-7732** 0R68 = **806-7759**
0R022 = **806-7660** 0R068 = **806-7694**

Order Code	Price Each 10+	50+	100+	1K+	5K+
Values 0R01 to 0R068 RL					
Values 0R1 to 0R68 RL					

LRC02P - 0.5 Watt ±1% (1206 Case Size)

5000 per Reel

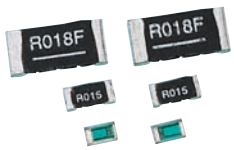
Stocked in the following OHMIC Values:

0R01 = **806-7520** 0R033 = **806-7554** 0R1 = **806-7589** 0R22 = **806-7600** 0R47 = **806-7627**
0R015 = **806-7538** 0R047 = **806-7562** 0R15 = **806-7597** 0R33 = **806-7619** 0R68 = **806-7635**
0R022 = **806-7546** 0R068 = **806-7570**

369994

Order Code	Price Each 10+	50+	100+	1K+	5K+
Values 0.01R to 0.068R RL					
Values 0.1R to 0.68R RL					

CRL-TL Series



- Surface mount low ohmic current sense resistors
- For use with battery charging management IC's, power supplies and shunt resistor applications
- Three case sizes 0805, 1206 and 2512
- Power ratings from 0.125W to 1W
- Virtually non-inductive low noise

	0805 CRL 1220	1206 TL2B	2512 TL3A
Technology	Thick film	Metal alloy	Metal alloy
Power rating @70°C	250mW	250mW	1W
Resistance tolerance	±5%	±1%	±1%
Temperature coefficient	350ppm/°C	75ppm/°C	75ppm/°C
Temperature range	-55°C to +125°C	-65°C to +170°C	-65°C to 170°C

Stocked in the following OHMIC values:

0805 CRL 1220 Series

0R022 = **117-3953** 0R068 = **117-3956** 0R15 = **117-3961** 0R47 = **117-3964**
0R033 = **117-3954** 0R075 = **117-3957** 0R22 = **117-3962** 0R68 = **117-3965**
0R047 = **117-3955** 0R1 = **117-3958** 0R33 = **117-3963**

Order Code	Price Each 5+	25+	100+	500+	1K+
All Values ● RL					

1206 TL 2B Series

0R01 = **117-3966** 0R018 = **117-3969** 0R033 = **117-3971** 0R068 = **117-3974**
0R015 = **117-3968** 0R022 = **117-3970** 0R047 = **117-3973** 0R09 = **117-3975**

Order Code	Price Each 5+	25+	100+	500+	1K+
All Values ● RL					

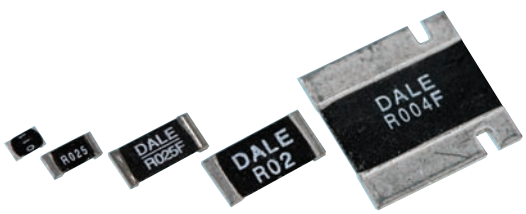
2512 TL3A Series

0R002 = **117-4191** 0R01 = **117-3977** 0R022 = **117-3980** 0R051 = **117-4188**
0R003 = **117-4192** 0R015 = **117-3978** 0R033 = **117-3981** 0R068 = **117-4189**
0R005 = **117-3976** 0R018 = **117-3979** 0R047 = **117-3982** 0R075 = **117-3983**

207276

Order Code	Price Each 5+	25+	100+	500+	1K+
All Values ● RL					

WSL Series – Power Metal Strip



L=38.1, Dia=8.0 (0R47=8.9), Lead length=15 min, Lead dia=0.8

- Superior surge capability
- Molded encapsulation
- Solderable termination
- Excellent stability at different environmental conditions

Power rating @ 70°C	Case 0805	100mW
	Case 1206	250mW
	Case 2010	500mW
	Case 2512	1W
	Case 3637	2W
Resistance tolerance		±1%
Operating temperature		-65°C to +170°C
Temperature coefficient max		±275ppm/°C

Stocked in the following OHMIC Values:

Case 0805

0R = **110-7329** 0R025 = **110-7334** 0R06 = **110-7338** 0R1 = **110-7342**
0R01 = **110-7330** 0R03 = **110-7335** 0R07 = **110-7339** 0R15 = **110-7344**
0R015 = **110-7332** 0R04 = **110-7336** 0R08 = **110-7340** 0R2 = **110-7345**
0R02 = **110-7333** 0R05 = **110-7337**

Case 1206

0R = **110-7346** 0R02 = **110-7350** 0R06 = **110-7354** 0R1 = **110-7359**
0R002 = **110-7347** 0R03 = **110-7351** 0R07 = **110-7356** 0R15 = **110-7360**
0R01 = **110-7348** 0R04 = **110-7352** 0R08 = **110-7357** 0R2 = **110-7361**
0R015 = **110-7349** 0R05 = **110-7353**

Case 2010

0R = **110-7362** 0R05 = **110-7371** 0R11 = **110-7377** 0R3 = **110-7387**
0R001 = **110-7363** 0R06 = **110-7372** 0R15 = **110-7381** 0R33 = **110-7388**
0R01 = **110-7364** 0R08 = **110-7374** 0R2 = **110-7383** 0R4 = **110-7389**
0R015 = **110-7365** 0R09 = **110-7375** 0R22 = **110-7384** 0R47 = **110-7390**
0R02 = **110-7366** 0R1 = **110-7376** 0R25 = **110-7385** 0R5 = **110-7391**
0R04 = **110-7370**

Case 2512

0R = **110-7393** 0R025 = **110-7398** 0R07 = **110-7403** 0R25 = **110-7411**
0R001 = **110-7394** 0R03 = **110-7399** 0R08 = **110-7404** 0R33 = **110-7413**
0R01 = **110-7395** 0R04 = **110-7400** 0R1 = **110-7406** 0R4 = **110-7414**
0R015 = **110-7396** 0R05 = **110-7401** 0R15 = **110-7407** 0R47 = **110-7415**
0R02 = **110-7397** 0R06 = **110-7402** 0R2 = **110-7408** 0R5 = **110-7416**

Case 3637

0R004 = **110-7418** 0R005 = **110-7419**

423684

Case 0805	Price Each				
Order Code	5+	50+	250+	500+	2K+
Values 0R to 0R06 ● RL					
Values 0R07 to 0R2 ● RL					
Case 1206					
Value 0R ● RL					
Value 0R001 ●					
Values 0R01 to 0R06 ● RL					
Values 0R7 to 0R5 ● RL					
Case 2010					
Value 0R ● RL					
Value 0R7 ● RL					
Values 0R01 to 0R06 ● RL					
Values 0R7 to 0R2 ● RL					
Case 2512					
All Values ● RL					
Case 3637					
All Values ● RL					

Current Sense

- Thick Film Chip Resistors
- Range of case sizes available
- Cost effective

Resistance tolerance	± 1%
Operating temperature	-55°C to +155°C

0.25 Watt (1206 Case Size)

Stocked in the following OHMIC Values

0R047 = **163-4317** 0R05 = **163-4314** 0R33 = **163-4313** 0R68 = **163-4315** 0R75 = **163-4316**

		Price Each					
Resistance	**Order Code**	10+	50+	100+	500+	1K+	5K+
0R047	**163-4317**●						
0R05	**163-4314**●						
0R33	**163-4313**●						
0R68	**163-4315**●						
0R75	**163-4316**●						

0.5 Watt (2010 Case Size)

Stocked in the following OHMIC Values

0R01 = **163-4324** 0R022 = **163-4323** 0R033 = **163-4326** 0R2 = **163-4319** 0R33 = **163-4322**
0R015 = **163-4325** 0R03 = **163-4321**

		Price Each					
Resistance	**Order Code**	10+	50+	100+	500+	1K+	5K+
0R01	**163-4324**●						
0R015	**163-4325**●						
0R022	**163-4323**●						
0R03	**163-4321**●						
0R033	**163-4326**●						
0R2	**163-4319**●						
0R33	**163-4322**●						

1 Watt (2512 Case Size)

Stocked in the following OHMIC Values

0R01 = **163-4334** 0R03 = **163-4329** 0R22 = **163-4330** 0R3 = **163-4333** 0R47 = **163-4332**
0R025 = **163-4328** 0R05 = **163-4327**

523971

		Price Each					
Resistance	**Order Code**	10+	50+	100+	500+	1K+	5K+
0R01	**163-4334**●						
0R025	**163-4328**●						
0R03	**163-4329**●						
0R05	**163-4327**●						
0R22	**163-4330**●						
0R3	**163-4333**●						
0R47	**163-4332**●						

LR Series - Low Ohmic Value

0.5 Watt (1206 Case Size), 1 Watt (2010 Case Size) & 2 Watt (2512 Case Size)

- Resistance values from 0R005 to 0R5
- 2010 and 2512 case sizes
- Nickel barrier layer
- Excellent thermal characteristics
- For low current sensing applications

	1206 Case Size (LR1206)	2010 Case Size (LR2010)	2512 Case Size (LR2512)
Power rating @ 70°C	500mW	1W	1.5W / 2W
Resistance tolerance	±1 ≤0R005 ±5%	±1 ≤0R005 ±5%	±5 ≤0R005 ±5%
Temperature coefficient	±100ppm/°C	±100ppm/°C	±100ppm/°C
Case dimensions	L. 3.2, W. 1.63, H. 0.8	L. 5.23, W. 2.64, H. 0.8	L. 6.5, W. 3.25, H. 0.8

Stocked in the following OHMIC values:

2010 Case Size

0R003 = **110-0341** 0R02 = **110-0046** 0R05 = **110-0050** 0R33 = **110-0055**
0R005 = **110-0043** 0R025 = **110-0047** 0R07 = **110-0052** 0R5 = **110-0056**
0R01 = **110-0044** 0R033 = **110-0048** 0R1 = **110-0053** 1R = **110-0342**
0R015 = **110-0045** 0R04 = **110-0049** 0R2 = **110-0054**

1206 Case Size

0R003 = **109-9903** 0R02 = **109-9909** 0R05 = **109-9913** 0R33 = **110-0338**
0R005 = **109-9906** 0R025 = **109-9910** 0R07 = **110-0335** 0R5 = **110-0339**
0R01 = **109-9907** 0R033 = **109-9911** 0R1 = **109-9914** 1R = **110-0340**
0R015 = **109-9908** 0R04 = **109-9912** 0R2 = **110-0337**

2512 Case Size

0R003 = **110-0343** 0R02 = **110-0060** 0R05 = **110-0065** 0R33 = **110-0069**
0R005 = **110-0057** 0R025 = **110-0061** 0R07 = **110-0066** 0R5 = **110-0070**
0R01 = **110-0058** 0R033 = **110-0062** 0R1 = **110-0067** 1R = **110-0344**
0R015 = **110-0059** 0R04 = **110-0064** 0R2 = **110-0068**

234804

	Price Each				
Order Code	5+	50+	100+	500+	1K+
1206 Case Size					
Values 0R003 to 0R05 ● RL					
Values 0R07 to 0R2 ● RL					
Values 0R33 to 1R ● RL					
2010 Case Size					
Values 0R003 to 0R05 ● RL					
Values 0R07 to 0R2 ● RL					
Values 0R33 to 1R ● RL					
2512 Case Size					
Values 0R003 to 0R05 ● RL					
Values 0R07 to 0R2 ● RL					
Values 0R33 to 1R ● RL					

Welwyn Low R Metal Alloy Resistor

LRMA Series

- Resistance range 1 to 100mΩ
- High temperature operation to 170°C
- Low thermal EMF version
- High power version
- Current sensing for power electronics

Welwyn Low R Metal Alloy Resistor - continued

LRMA Series - continued

Case Size	LRMA Version	Power Rating @ 70°C	Tolerance	Temperature Coefficient
0815	Inverse	1W	± 1%	± 100ppm/°C
1206	Low Thermal EMF	2W	± 1%	± 75ppm/°C
2512	Low Thermal EMF	2W	± 1%	± 100ppm/°C
2512	Power	3W	± 1%	± 100ppm/°C
2512	Standard	2W	± 1%	± 100ppm/°C

0805 Case (Inverse Version)

Stocked in the following OHMIC Values:

1R = **207-8888**

Order Code	Price Each 5+	50+	250+	500+	1K+
All Values ●					

1206 Case (Low Thermal EMF Version)

Stocked in the following OHMIC Values:

0R005 = **207-9443** 0R01 = **207-9442** 0R02 = **207-9438** 0R03 = **207-9440**
0R015 = **207-9441** 0R025 = **207-9439**

Order Code	Price Each 5+	50+	250+	500+	1K+
All Values ●					

2512 Case (Low Thermal EMF Version)

Stocked in the following OHMIC Values:

0R005 = **207-9435** 0R02 = **207-9436** 0R03 = **207-9437**

Order Code	Price Each 5+	50+	250+	500+	1K+
All Values ●					

2512 Cases (Power Version)

Stocked in the following OHMIC Values:

0R005 = **207-9432** 0R015 = **207-9431** 0R01 = **207-9429** 0R05 = **207-9430**

Order Code	Price Each 5+	50+	250+	500+	1K+
All Values ●					

2512 Case (Standard Version)

Stocked in the following OHMIC Values:

0R0015 = **207-9421** 0R003 = **207-9419** 0R005 = **207-9417** 0R015 = **207-9427** 0R04 = **207-9425**
0R001 = **207-9423** 0R004 = **207-9418** 0R012 = **207-9428** 0R03 = **207-9426** 0R05 = **207-9424**
0R002 = **207-9420**

652505

Order Code	Price Each 5+	50+	250+	500+	1K+
All Values ●					

ULR Series

TT electronics Welwyn Components

- Low TCR, Low inductance
- Designed for current sensing in power electronic systems

Resistance tolerance ±1%
Temperature coefficient -55 to 170°C

Stocked in the following OHMIC values:

ULR1 - 1 Watt - 2512 Case Size

0R00075 = **129-2473** 0R003 = **129-2478** 0R0045 = **129-2482** 0R0055 = **129-2484**
0R001 = **129-2474** 0R0035 = **129-2479** 0R005 = **129-2483** 0R007 = **129-2486**
0R002 = **129-2476**

ULR1S - 1 Watt - 1206 Case Size

0R001 = **162-1960** 0R0035 = **162-1965** 0R0055 = **162-1971** 0R008 = **162-1974**
0R0015 = **162-1961** 0R004 = **162-1966** 0R006 = **162-1972** 0R009 = **162-1975**
0R002 = **162-1962** 0R0045 = **162-1967** 0R007 = **162-1973** 0R01 = **162-1976**
0R003 = **162-1964** 0R005 = **162-1969**

ULR15S - 1 Watt - 2010 Case Size

0R001 = **162-1977** 0R003 = **162-1982** 0R005 = **162-1986** 0R008 = **162-1990**
0R0015 = **162-1978** 0R0035 = **162-1983** 0R0055 = **162-1987** 0R009 = **162-1991**
0R002 = **162-1979** 0R004 = **162-1984** 0R006 = **162-1988** 0R01 = **162-1992**
0R0025 = **162-1980** 0R0045 = **162-1985** 0R007 = **162-1989**

ULR2 - 2 Watt - 2512 Case Size

0R001 = **129-2489** 0R0015 = **129-2490** 0R002 = **129-2491** 0R008 = **129-2494** 0R01 = **129-2496**

ULR25 - 2.5 Watt - 2512 Case Size

0R004 = **129-2498** 0R005 = **129-2501** 0R0055 = **129-2502** 0R006 = **129-2503**

ULR3 - 3 Watt - 2512 Case Size

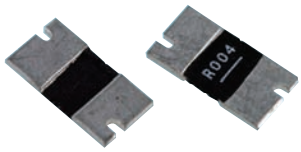
0R0005 = **129-2504** 0R001 = **129-2506** 0R002 = **129-2508** 0R003 = **129-2510**
0R00075 = **129-2505** 0R0015 = **129-2507**

451985

Series	Order Code	Price Each 5+	25+	100+	500+	2K+
ULR1	All Values ● RL					
ULR1S	All Values ● RL					
ULR15S	All Values ● RL					
ULR2	All Values ● RL					
ULR25	All Values ● RL					
ULR3	All Values ● RL					

WSK Series – Power Metal Strip

VISHAY



- Ideal for all types of precision current sensing, voltage division and pulse applications including switching and linear power supplies, instruments, power amplifiers
- Proprietary processing technique produces extremely low resistance values

Case Size 2512 Operating temperature -65°C to +170°C
Power rating @ 70°C 1W Temperature coefficient max ±250ppm/°C
Resistance tolerance ±1%

Stocked in the following OHMIC Values:

0R001 = **110-7426** 0R005 = **110-7428** 0R015 = **110-7430** 0R025 = **110-7432**
0R002 = **110-7427** 0R01 = **110-7429** 0R02 = **110-7431**

423701

Order Code	Price Each 5+	50+	250+	500+	2K+
All Values ●					

ERJM1/2W Series

Current Sensing Resistors

SMD

Panasonic ideas for life

- Low resistance values and high precision
- Stable resistance not influenced by measurement position
- High heat emission
- Low profile, strong body
- AECQ-200 Automotive Approved

Case style 2512 Operating temperature -55°C to +170°C
Tolerance ± 1%

1W Stocked in the following OHMIC values:

0R001 = **157-7573** 0R002 = **157-7575** 0R015 = **157-7583** 0R02 = **157-7584**
0R0015 = **157-7574** 0R003 = **157-7576**

2W Stocked in the following OHMIC values:

0R004 = **157-7577** 0R005 = **157-7579** 0R006 = **157-7581** 0R01 = **157-7582**

527237

Values	Price Each 1+	10+	100+	500+	1K+
<0R003Ω ●					
≥0R003Ω ●					

CRL Series

Low value chip resistor

BOURNS

NEW

- RoHS compliant
- Tolerance of 1% or 5%
- Applications include toys, cell phones and consumer goods
- Available in case size; 0603, 0805, 1206
- Operating temperature -55°C to +125°C
- Temperature Coefficient ±200 PPM/°C

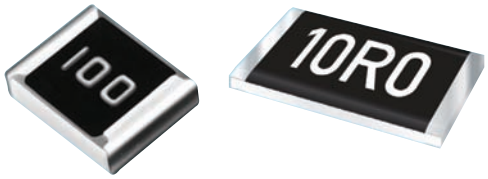
651195

	Tolerance	Order Code	Price Each 1+	10+	50+	100+	500+
0603 case							
0R1	1%	**200-8295**●					
0805 case							
0R05	1%	**200-8296**●					
0R1	1%	**200-8297**●					
0R3	1%	**200-8298**●					
0R33	5%	**200-8299**●					
1206 case							
0R1	1%	**200-8301**●					
0R15	1%	**200-8302**●					
0R27	1%	**200-8303**●					
0R39	1%	**200-8304**●					
0R47	1%	**200-8305**●					
0R62	1%	**200-8306**●					
0R68	1%	**200-8307**●					
0R75	1%	**200-8308**●					

Chip Resistors

BOURNS

Series: CRM



NEW

- Thick film technology
- Current limiting, current sensing and high pulse resistance
- Power rating 0.25, 0.5, 1 and 2 W
- Operating temperature: -55°C to 155°C
- Used for power supply and stepper motor drives applications

Case Size	L mm	W mm	H mm	Power Rating W	Temperature Coefficient	Tolearance
0805	2	1.20	0.50	0.25	± 100ppm/°C	± 1%
1206	3.1	1.6	0.55	0.5	± 200ppm/°C	± 5%
2010	5	2.5	0.6	1	± 200ppm/°C	± 5%
2512	2.45	2.7	3.7	2	± 100ppm/°C	± 1%

0805 Case Size

Stocked in the following OHMIC Values

0R1 = 186-5233 0R09 = 186-5235 0R51 = 186-5236 0R91 = 186-5238 51R = 186-5239
0R05 = 186-5234

	Order Code	Price Each 10+	50+	100+	500+	5K+
0805 Case Size	All Values●					

1206 Case Size

Stocked in the following OHMIC Values

1R = 186-5240 4R7 = 186-5242 0R1 = 186-5244 0R82 = 186-5246 10R = 186-5248
2R2 = 186-5241 0R05 = 186-5243 0R51 = 186-5245 0R91 = 186-5247 51R 186-5251

	Order Code	Price Each 10+	50+	100+	500+	5K+
1206 Case Size	All Values●					

2010 Case Size

Stocked in the following OHMIC Values

1R = 186-5252 4R7 = 186-5255 0R082 = 186-5258 0R1 = 186-5260 0R91 = 186-5263
2R2 = 186-5253 7R5 = 186-5256 0R09 = 186-5259 0R51 = 186-5261 51R 186-5264
3R3 = 186-5254 0R05 = 186-5257

	Order Code	Price Each 10+	50+	100+	500+	5K+
2010 Case Size	All Values●					

2512 Case Size

Stocked in the following OHMIC Values

0R1 = 186-5265 0R51 = 186-5267 2R2 = 186-5269 10R = 186-5271 100K = 186-5273
0R3 = 186-5266 1R = 186-5268 4R7 = 186-5270 200R = 186-5272

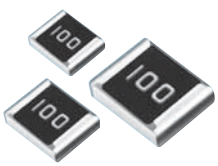
622639

	Order Code	Price Each 10+	50+	100+	500+	5K+
2512 Case Size	All Values●					

Power Resistor Design Kit

NEW

BOURNS



- Thick film pulse and current sense chip resistors
- Power rating : 0.25, 0.5 and 1W
- Size code: 0805, 1206 and 2010

Kit contains the following OHMIC values and tolerances* . 2 of each value

0805 Case Size (0.25W)
0.05(f), 0.09(f), 0.1(f), 0.51(f), 0.91(f), 1(j), 3.6(j), 4.7(j), 51(f)

1206 Case Size (0.5W)
0.05(f), 0.1(f), 0.51(f), 0.82(f), 0.91(f), 1(j), 2.2(j), 4.7(j), 10(f), 51(f), 3300(f)

2010 Case Size (1W)
0.05(f), 0.082(f), 0.09(f), 0.1(f), 0.51(f), 0.91(f), 1(j), 2.2(j), 3.3(j), 4.7(j), 7.5(j), 51(f)
*Tolerances: f=1%, j=5%

624316

Mftrs. List No.	Order Code	Price Each 1+	3+	5+
CRMSERIES-LAB1	186-5275●			

CRA2512 Series

BOURNS

High Power Current Sense Chip Resistor

SMD

- Special alloy resistor
- Power rating at 70°C: CRA2512 - 3W
- Applications include power supplies, stepper motor drives

Operating temperature -55°C to +170°C

Case Size	Dimensions L	W	H	Temperature Coefficient	Tolerance
2512	6.4	3.2	0.9	±75ppm/°C	±1%

3 Watt ±1% (2512 Case Size)

Stocked in the following OHMIC Values

0R01 = **143-5947** 0R02 = **143-5948** 0R005 = **200-8322** 0R08 = **143-5951** 0R1 = **143-5952**
0R01 = **200-8323** 0R04 = **143-5949** 0R05 = **143-5950**

484424

	Order Code	Price Each 1+	10+	50+	100+	500+	500+
Case Size	All Values						

CRF Series

NEW

BOURNS

High Power Current Sense Chip Resistor

SMD

- Resistance value as low as 0.001 ohm
- High power density
- Inductance less than 5 nH
- Applications: power supplies, stepper motor drives

Operating temperature
-55°C to +170°C

Case Size	Dimensions L	W	H	Temperature Coefficient	Tolerance
2512	6.40	3.20	0.6	± 275ppm/°C	± 1%
1206	3.20	1.65	0.6	± 100ppm/°C	± 1%

1 Watt ±1% (1206 Case Size)

Stocked in the following OHMIC Values

0R01 = **200-8326**

2 Watt ±1% (2512 Case Size)

Stocked in the following OHMIC Values

0R001 = **200-8325** 0R005 = **200-8327** 0R01 = **200-8328** 0R003 = **200-8329**

659958

Case Size	Order Code	Price Each 1+	50+	100+	500+	1K+	1K+
1206	All Values						

Case Size	Order Code	Price Each 1+	50+	100+	500+	1K+	1K+
2512	All Values						

Thin Film Precision Chip Resistors

BOURNS

CRT Series

NEW

SMD

- Thin film precision chip resistor
- Applications include current sense and precision circuits
- Operating temperature -55 to 155°C

Case Size	Power Rating	Temperature Coefficient	Tolerance
0603	0.1W	±± 25ppm/°C	± 0.1%
0805	0.125W	±± 25ppm/°C	± 0.1%
1206	0.25W	±± 25ppm/°C	± 0.1%

*****Note : 0805, 10K resistor is 1% tolerance*****

Stocked in the following OHMIC Values

0603 Case Size
10R = **200-8309** 10K = **200-8310** 100K = **200-8311**

0805 Case Size
10R = **200-8313** 10K = **200-8314** 10K = **200-8317** 100K = **200-8315** 1M = **200-8316**

1206 Case Size
10R = **200-8318** 10K = **200-8319** 100K = **200-8320** 1M = **200-8321**

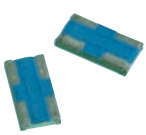
651458

Case Size	Order Code	Price Each 5+	50+	100+	500+	1K+
0603	All Values					
0805	All Values					
1206	All Values					

3 Watt LRF3W Series - Low Ohmic Value

TT electronics Welwyn Components

2512 Case Size



SMD

- High power rating - 3W
- Resistance values from 0R003 to 0R1
- Four terminal flip-chip 2512 case size
- Excellent thermal characteristics
- Nickel barrier layer
- For low current sensing applications

Power rating @ 70°C	3W	Temp. coefficient	±100ppm/°C
Resistance tolerance	±5%	Case dimensions	L. 6.35, W. 3.175, H. 0.813

Stocked in the following OHMIC values:

0R003 = **110-0071** 0R01 = **110-0074** 0R025 = **110-0346** 0R05 = **110-0078**
0R004 = **110-0072** 0R015 = **110-0345** 0R03 = **110-0077** 0R07 = **110-0349**
0R005 = **110-0073** 0R02 = **110-0076** 0R04 = **110-0347** 0R1 = **110-0079**

234805

Order Code	Price Each 1+	50+	100+	500+	1K+
All Values ● RL					

1 Watt—SL1 Series

Tyco Electronics

- Surface mount low ohmic value
- Non-inductive, low TCR fully sealed case
- Applications include current sensing and monitoring

SMD

L=6.3 W=3.5 H=3.5
Supplied on 12mm embossed tape

Power rating @25°C	1W	Resistance tolerance	±5%
Voltage rating	√PR	Operating temperature	-55°C to +125°C
Dielectric strength	1000V/m	Temperature coefficient	100ppm/°C

0R005 = **117-4242**	0R022 = **117-4245**	0R047 = **117-4247**	0R068 = **117-4249**
0R01 = **117-4243**	0R033 = **117-4246**	0R051 = **117-4248**	

207216

Order Code	Price Each 1+	50+	100+	500+
All Values ● RL				

WSC Series – Power Metal Strip

VISHAY

- Excellent stability at different environmental conditions
- Superior surge capability
- High power ratings
- Molded encapsulation

Resistance tolerance	±1%	Temperature coefficient max	500V
Operating temperature	-65°C to +175°C		

Stocked in the following OHMIC Values:

WSC2515

Case Size	2515	Power Rating	1mW
0R5 = **110-7505**	5R = **110-7504**	50R = **110-7503**	1K = **110-7498**
1R = **110-7499**	10R = **110-7497**	100R = **110-7496**	2K = **110-7500**
2R = **110-7502**			

WSC4527

Case Size	4527	Power Rating	2mW
2R = **110-7511**	10R = **110-7507**	50R = **110-7512**	1K = **110-7508**
5R = **110-7514**	20R = **110-7509**	100R = **110-7506**	2K = **110-7510**

WSC6927

Case Size	6927	Power Rating	3mW
1R = **110-7518**	0R5 = **110-7519**	10R = **110-7516**	100R = **110-7515**

423706

Order Code	Price Each 5+	50+	250+	500+	2K+
Case 2515					
Values 0R5, 50R & 100R ●					
Values 10R, 1R, 2R & 5R ●					
Values 1K & 2K ●					
Case 4527					
All Values ●					
Case 6927					
All Values ●					

RCWE Series

VISHAY

- Extremely low resistance values
- Suitable for current sensing and shunts
- Metal glaze on high quality ceramic

NEW

Tolerance	± 1%
Operating Temperature	-55°C to +155°C
Temperature Coeff.	± 200ppm/°C

0402 Case Size

Stocked in the following OHMIC Values:

0R11 = **183-8587**	0R18 = **183-8592**	0R3 = **183-8598**	0R47 = **183-8604**	0R68 = **183-8608**
0R12 = **183-8588**	0R2 = **183-8594**	0R33 = **183-8599**	0R51 = **183-8605**	0R75 = **183-8609**
0R13 = **183-8589**	0R22 = **183-8595**	0R36 = **183-8601**	0R56 = **183-8606**	0R82 = **183-8610**
0R15 = **183-8590**	0R24 = **183-8596**	0R39 = **183-8602**	0R62 = **183-8607**	0R91 = **183-8612**
0R16 = **183-8591**	0R27 = **183-8597**	0R43 = **183-8603**		

Order Code	Price Each 5+	50+	250+	500+	2K+
All Values ● RL					

0603 Case Size

Stocked in the following OHMIC Values:

0R11 = **183-8613**	0R12 = **183-8614**	0R13 = **183-8615**	0R15 = **183-8616**	0R16 = **183-8617**
0R18 = **183-8618**	0R27 = **183-8622**	0R39 = **183-8627**	0R56 = **183-8631**	0R75 = **183-8634**
0R2 = **183-8619**	0R3 = **183-8624**	0R43 = **183-8628**	0R62 = **183-8632**	0R82 = **183-8636**
0R22 = **183-8620**	0R33 = **183-8625**	0R47 = **183-8629**	0R68 = **183-8633**	0R91 = **183-8637**
0R24 = **183-8621**	0R36 = **183-8626**	0R51 = **183-8630**		

Order Code	Price Each 5+	50+	250+	500+	2K+
All Values ● RL					

0805 Case Size

Stocked in the following OHMIC Values:

0R22 = **183-8638**	0R33 = **183-8642**	0R43 = **183-8645**	0R56 = **183-8649**	0R75 = **183-8652**
0R24 = **183-8639**	0R36 = **183-8643**	0R47 = **183-8646**	0R62 = **183-8650**	0R82 = **183-8653**
0R27 = **183-8640**	0R39 = **183-8644**	0R51 = **183-8648**	0R68 = **183-8651**	0R91 = **183-8654**
0R3 = **183-8641**				

Order Code	Price Each 5+	50+	250+	500+	2K+
All Values ● RL					

1206 Case Size

Stocked in the following OHMIC Values:

0R22 = **183-8655**	0R33 = **183-8661**	0R43 = **183-8664**	0R56 = **183-8667**	0R75 = **183-8670**
0R24 = **183-8656**	0R36 = **183-8662**	0R47 = **183-8665**	0R62 = **183-8668**	0R82 = **183-8671**
0R27 = **183-8657**	0R39 = **183-8663**	0R51 = **183-8666**	0R68 = **183-8669**	0R91 = **183-8673**
0R3 = **183-8658**				

Order Code	Price Each 5+	50+	250+	500+	2K+
All Values ● RL					

1210 Case Size

Stocked in the following OHMIC Values:

0R22 = **183-8674**	0R33 = **183-8678**	0R43 = **183-8681**	0R56 = **183-8685**	0R75 = **183-8688**
0R24 = **183-8675**	0R36 = **183-8679**	0R47 = **183-8682**	0R62 = **183-8686**	0R82 = **183-8689**
0R27 = **183-8676**	0R39 = **183-8680**	0R51 = **183-8683**	0R68 = **183-8687**	0R91 = **183-8690**
0R3 = **183-8677**				

Order Code	Price Each 5+	50+	250+	500+	2K+
All Values ● RL					

2010 Case Size

Stocked in the following OHMIC Values:

0R51 = **183-8691**	0R62 = **183-8693**	0R75 = **183-8695**	0R82 = **183-8697**	0R91 = **183-8698**
0R56 = **183-8692**	0R68 = **183-8694**			

Order Code	Price Each 5+	50+	250+	500+	2K+
All Values ● RL					

2512 Case Size

Stocked in the following OHMIC Values:

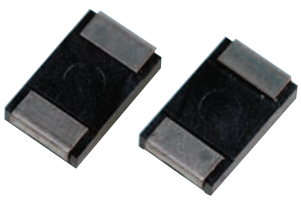
0R51 = **183-8699**	0R62 = **183-8701**	0R75 = **183-8704**	0R82 = **183-8705**	0R91 = **183-8706**
0R56 = **183-8700**	0R68 = **183-8703**			

613591

Order Code	Price Each 5+	50+	250+	500+	2K+
All Values ● RL					

WSR Series – Power Metal Strip

VISHAY



- Ideal for all types of current sensing, voltage division and pulse applications including switching and linear power supplies, instruments, power amplifiers
- Excellent frequency response
- Low thermal EMF

Case size		4527
Resistance tolerance		±1%
Operating temperature		-65°C to +275°C
Temperature coefficient	≤0.0099Ω	±110ppm/°C
	≥0.01Ω	±75ppm/°C

Stocked in the following OHMIC Values:

2W

0R = **110-7433**	0R03 = **110-7441**	0R08 = **110-7447**	0R3 = **110-7453**
0R001 = **110-7435**	0R04 = **110-7442**	0R1 = **110-7449**	0R4 = **110-7455**
0R01 = **110-7437**	0R05 = **110-7443**	0R15 = **110-7450**	0R5 = **110-7456**
0R015 = **110-7438**	0R06 = **110-7444**	0R2 = **110-7451**	0R75 = **110-7457**
0R02 = **110-7439**	0R07 = **110-7445**	0R25 = **110-7452**	1R = **110-7436**
0R025 = **110-7440**			

3W

0R001 = **110-7459**	0R02 = **110-7464**	0R05 = **110-7468**	0R1 = **110-7472**
0R002 = **110-7461**	0R03 = **110-7466**	0R07 = **110-7469**	0R15 = **110-7473**
0R01 = **110-7462**	0R04 = **110-7467**	0R09 = **110-7470**	0R2 = **110-7474**
0R015 = **110-7463**			

5W

0R0075 = **110-7475**	0R03 = **110-7479**	0R09 = **110-7486**	0R2 = **110-7489**
0R01 = **110-7476**	0R05 = **110-7481**	0R1 = **110-7487**	0R25 = **110-7490**
0R015 = **110-7477**	0R07 = **110-7484**	0R15 = **110-7488**	0R3 = **110-7491**
0R02 = **110-7478**			

423703

RoHS ● Compliant ▲ Non-compliant

2W	Price Each				
Order Code	5+	50+	250+	500+	2K+
Value 0R ●					
Value 0R001 ●					
Values 0R01 to 1R ●					
3W					
Value 0R001 to 0R002 ●					
Value 0R01 to 0R2 ●					
5W					
All Values ●					

Power Metal Strip® Battery Shunt Resistor

WSB Series

VISHAY

NEW

- High power to resistor size ratio
- Very low inductance (≤ 5 nH)
- Low thermal EMF (≤ 3 uV/°C)

Operating Temperature	-65°C to +170°C
Tolerance	± 5%
Temperature Coefficient	± 225ppm/°C
Power Rating	36W

Resistance (µΩ)	Mftrs List No.	Order Code
100	WSBS8518L1000JK	185-8285
125	WSBS8518L1250JK	185-8286
250	WSBS8518L2500JK	185-8287

619542

Resistance (µΩ)	Mftrs. List No.	Order Code	Price Each 1+	5+	10+	50+
100	WSBS8518L1000JK	185-8285●				
125	WSBS8518L1250JK	185-8286●				
250	WSBS8518L2500JK	185-8287●				

WSMS Series

Power Metal Strip® Meter Shunt Resistor

VISHAY

NEW

WSMS5515

WSMS2908

WSMS2906

WSMS3124

- High power to resistor size ratio
- Proprietary processing technique

Operating Temp.	-65°C to +170°C
Tolerance	± 5%
Power Rating	3W

WSMS5515

Resistance (µΩ)	Temperature Coefficient	Mftrs List No.	Order Code
100	± 325ppm/°C	WSMS5515L1000JK	185-8288
160	± 225ppm/°C	WSMS5515L1600JK	185-8289
200	± 225ppm/°C	WSMS5515L2000JK	185-8290
250	± 225ppm/°C	WSMS5515L2500JK	185-8291
300	± 175ppm/°C	WSMS5515L3000JK	185-8292
350	± 175ppm/°C	WSMS5515L3500JK	185-8293
500	± 175ppm/°C	WSMS5515L5000JK	185-8295

WSMS2908

Resistance (µΩ)	Temperature Coefficient	Mftrs List No.	Order Code
100	± 500ppm/°C	WSMS2908L1000JK	185-8296
250	± 225ppm/°C	WSMS2908L2500JK	185-8297
300	± 175ppm/°C	WSMS2908L3000JK	185-8298
430	± 175ppm/°C	WSMS2908L4300JK	185-8299
500	± 175ppm/°C	WSMS2908L5000JK	185-8301

WSMS2906

Resistance (µΩ)	Temperature Coefficient	Mftrs List No.	Order Code
300	± 100ppm/°C	WSMS2906L3000JK	185-8302
400	± 100ppm/°C	WSMS2906L4000JK	185-8303
500	± 75ppm/°C	WSMS2906L5000JK	185-8304

WSMS3124

Resistance (µΩ)	Temperature Coefficient	Mftrs List No.	Order Code
100	± 75ppm/°C	WSMS3124L1000JK	185-8305

619560

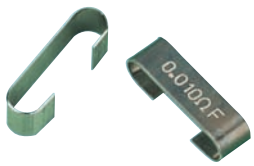
Resistance (µΩ)	Mftrs. List No.	Order Code	Price Each 1+	5+	10+	50+
WSMS5515						
100	WSMS5515L1000JK	185-8288●				
160	WSMS5515L1600JK	185-8289●				
200	WSMS5515L2000JK	185-8290●				
250	WSMS5515L2500JK	185-8291●				
300	WSMS5515L3000JK	185-8292●				
350	WSMS5515L3500JK	185-8293●				
500	WSMS5515L5000JK	185-8295●				
WSMS2908						
100	WSMS2908L1000JK	185-8296●				
250	WSMS2908L2500JK	185-8297●				
300	WSMS2908L3000JK	185-8298●				
430	WSMS2908L4300JK	185-8299●				
500	WSMS2908L5000JK	185-8301●				

Resistance (µΩ)	Mftrs. List No.	Order Code	Price Each 1+	5+	10+	50+
WSMS2906						
300	WSMS2906L3000JK	185-8302●				
400	WSMS2906L4000JK	185-8303●				
500	WSMS2906L5000JK	185-8304●				
WSMS3124						
100	WSMS3124L1000JK	185-8305●				

OARS Series - Surface Mount

TT electronics Welwyn Components

SMD



- Surface mount current sensing resistors
- Open air design for cooler operation
- Close tolerance low inductance
- For use in current sensing, feedback, surge and pulse applications

L=11.18 H=3.05 T=2.36 D=4.83 W=3.175

Power rating @85°C	≤0R015 1W ≥0R020 2W	Inductance	<10nH
Resistance tolerance	±1%	Temperature coefficient	±20ppm/°C

Stocked in the following OHMIC Values:

0R003 = **120-0347** 0R015 = **120-0350** 0R025 = **120-0352** 0R04 = **120-0354**
0R005 = **120-0348** 0R02 = **120-0351** 0R03 = **120-0353** 0R05 = **120-0356**
0R01 = **120-0349**

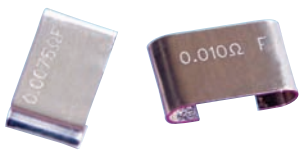
207370

Order Code	Price Each 1+	10+	50+	100+	500+
All Values ●					

OARSXP Series

TT electronics Welwyn Components

SMD



- Extended power surface mount current sense resistors
- Open air design provides cooler operation
- Unique form factor provides TCE compliant termination

L=12, W = 6.3, H = 4.6

Power rating	3.5	Temperature coefficient	0.001Ω = ±240ppm/°C
Resistance tolerance	±5%		≥0.002Ω = ±40ppm/°C

Stocked in the following OHMIC Values:

0R001 = **129-2583** 0R0025 = **129-2586** 0R01 = **129-2588** 0R025 = **129-2590**
0R002 = **129-2585** 0R005 = **129-2587** 0R02 = **129-2589**

451983

Order Code	Price Each 1+	10+	50+	100+	500+
All Values ●					

OAR Series

TT electronics Welwyn Components

- Through hole low ohmic current sensing resistors
- Open design for cooler running
- Close tolerance low inductance
- For use in current sensing, feedback, surge and pulse applications

Power rating @ 85°C	85°C
Resistance tolerance	±1%
Inductance	<10nH
Temperature coefficient	±20ppm/°C

	H	W	Lead Pitch	Lead Dia.	Lead length
OAR-1	5.08	1.65	11.43	1.02	3.18
OAR-3	25.4	1.65	15.24	1.02	3.18
OAR-5	25.4	1.65	20.32	1.02	3.18

Stocked in the following OHMIC Values:

OAR - 1 Watt

0R005 = **120-0357** 0R02 = **120-0359** 0R03 = **120-0361** 0R04 = **120-0362** 0R05 = **120-0363**
0R01 = **120-0358**

OAR - 3 Watt

0R005 = **120-0364** 0R015 = **120-0366** 0R025 = **120-0369** 0R04 = **120-0371** 0R05 = **120-0372**
0R01 = **120-0365** 0R02 = **120-0368** 0R03 = **120-0370**

OAR - 5 Watt

0R005 = **120-0373** 0R015 = **120-0375** 0R02 = **120-0376** 0R025 = **120-0377**
0R01 = **120-0374**

207372

	Order Code	Price Each 1+	10+	50+	100+	500+
OAR - 1 Watt	All Values ●					
OAR - 3 Watt	All Values ●					
OAR - 5 Watt	All Values ●					

Low Ohmic & Current Detect - continued

Low Ohm Moulded Silicone Axial Wirewound Resistors

1W - L = 10.31, Dia. = 2.39, Lead length = 39.67, Lead dia. = 0.8
3W - L = 14.22, Dia. = 5.21, Lead length = 39.67, Lead dia. = 0.8
5W - L = 23.5, Dia. = 8.38, Lead length = 39.67, Lead dia. = 1.0

- Ideal for current sensing applications
- Low inductance

Temperature coefficient	90ppm/°C	Overload power rating	5xPr for 5 secs
Tolerance	±1%	Operating temperature	-55°C to + 275°C

1W

Stocked in the following OHMIC Values

0R05 = **130-6689** 0R1 = **130-6690**

Order Code	Price Each 1+	10+	100+	250+	500+
All Values ●					

3W

Stocked in the following OHMIC Values

0R01 = **130-6691** 0R05 = **130-6692** 0R1 = **130-6693**

Order Code	Price Each 1+	10+	100+	250+	500+
All Values ●					

5W

Stocked in the following OHMIC Values

0R01 = **130-6694** 0R05 = **130-6695** 0R1 = **130-6696**

451903

Order Code	Price Each 1+	10+	100+	250+	500+
All Values ●					

LVR Series

Wirewound low Ohmic value

- Ideal for all types of current sensing applications including switching and linear power supplies, instruments and power amplifiers
- Proprietary processing technique produces extremely low resistance values
- Low temperature coefficient
- Cooler operation for high power to size ratio

Resistance tolerance	±1%	Dielectric withstanding voltage	1000V
Operating temperature	-65°C to +175°C	Insulation resistance	

1 Watt - LVR01

Power rating (Pr) @ 25°C	1W	Diameter Body	2.92mm
Length Body	10.85mm	Diameter Lead	0.508mm

Stocked in the following OHMIC Values :

0R01 = **110-8056** 0R04 = **110-8060** 0R07 = **110-8063**
0R02 = **110-8057** 0R05 = **110-8061** 0R1 = **110-8065**
0R025 = **110-8058**

3 Watt - LVR03

Power rating (Pr) @ 25°C	3W	Diameter Body	5.21mm
Length Body	14.22mm	Diameter Lead	0.813mm

Stocked in the following OHMIC Values :

0R005 = **110-8066** 0R03 = **110-8071** 0R08 = **110-8076** 0R2 = **110-8079**
0R01 = **110-8067** 0R04 = **110-8072** 0R1 = **110-8077**
0R02 = **110-8069** 0R05 = **110-8073** 0R15 = **110-8078**
0R025 = **110-8070** 0R07 = **110-8075**

5 Watt - LVR05

Power rating (Pr) @ 25°C	5W	Diameter Body	8.38mm
Length Body	23.5mm	Diameter Lead	1.02mm

Stocked in the following OHMIC Values :

0R005 = **110-8080** 0R025 = **110-8084** 0R07 = **110-8089** 0R15 = **110-8092**
0R01 = **110-8081** 0R03 = **110-8085** 0R08 = **110-8090** 0R2 = **110-8093**
0R015 = **110-8082** 0R05 = **110-8088** 0R1 = **110-8091** 0R3 = **110-8094**
0R02 = **110-8083**

423495

Power rating	Order Code	Price Each 5+	25+	100+	250+	500+
1W	All Values ●					
3W	All Values ●					
5W	All Values ●					

W31 Series - 3 Watt Low Ohmic

L=13mm Dia=5.6mm Lead Length=22.75mm Lead Dia=0.8mm

- Ceramic coated wirewound resistors
- Non-flammable
- Low ohmic values for pulse handling applications

		Temperature Coefficient	
Power Rating	3W	0.01 to 0.027Ω	<1000ppm/°C
Tolerance	± 5%	0.033 to 0.082Ω	<500ppm/°C
Voltage Rating	100V	0.1 to 8.2Ω	<200ppm/°C
		10 to 2.7kΩ	<150ppm/°C

Stocked in the following OHMIC values:

0R01 = 949-7072 0R12 = 949-7218 1R5 = 156-5238 18R = 156-5231 220R = 156-5240
0R012 = 949-7080 0R15 = 949-7226 1R8 = 156-5239 22R = 156-5241 270R = 156-5243
0R015 = 949-7099 0R18 = 949-7234 2R2 = 156-5247 27R = 156-5244 330R = 156-5249
0R018 = 949-7102 0R22 = 949-7242 2R7 = 156-5248 33R = 156-5250 390R = 156-5251
0R022 = 949-7110 0R27 = 949-7250 3R3 = 156-5253 39R = 156-5252 470R = 156-5256
0R027 = 949-7129 0R33 = 949-7269 3R9 = 156-5255 47R = 156-5257 560R = 156-5259
0R033 = 949-7137 0R39 = 949-7277 4R7 = 156-5258 56R = 156-5260 680R = 156-5262
0R039 = 949-7145 0R47 = 949-7285 5R6 = 156-5261 68R = 156-5263 820R = 156-5265
0R047 = 949-7153 0R51 = 949-7293 6R8 = 156-5264 82R = 156-5267 1K = 156-5233
0R051 = 949-7161 0R56 = 949-7307 8R2 = 156-5268 100R = 156-5222 1K2 = 156-5232
0R056 = 949-7170 0R68 = 949-7315 10R = 156-5223 120R = 156-5224 1K8 = 156-5235
0R068 = 949-7188 0R82 = 949-7323 12R = 156-5225 150R = 156-5226 2K2 = 156-5245
0R082 = 949-7196 1R = 949-7064 15R = 156-5227 180R = 156-5228 2K7 = 156-5246
0R1 = 949-7200 1R2 = 156-5236

628052

Order Code	Price Each 5+	50+	100+	500+	1K+
All Values●					

4 Watt – SBL4 - Series Low Ohmic

L=20, W=6.4, D=6.4, Lead dia=0.8

Low ohmic value non-inductive resistors with low temperature coefficient in a fully insulated ceramic housing. Ideal for applications in power supply regulation, motor control, current monitoring, feedback control loops, overload sensors, radio frequency sampling and all current sensing applications.

Power rating @70°C derating to zero watts at 250°C	4W	Stability @ 70°C	1000 hours ≤±3%
Resistance Tolerance	±5%	Measuring Length for R_N	40mm
Isolation resistance (max)	>MΩ	Voltage Rating	√PR
Temperature Coefficient	100 to 600ppm/°C (dependent on value)	Operating temperature	-55°C to +250°C

Stocked in the following OHMIC Values:

0R01 = **117-3906** 0R022 = **117-3908** 0R047 = **117-3910**
0R015 = **117-3907** 0R033 = **117-3909** 0R051 = **117-3912**

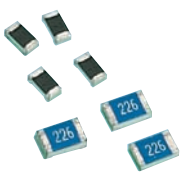
207418

Order Code	Price Each 1+	50+	100+	250+	500+
All Values ●117-3906●					

High Ohmic

HRC21/11 Series - High Ohmic Value

0.063 Watt (0603 Case Size) & 0.125 Watt (0805 Case Size)



- High ohmic value thick film chip resistors
- 0603 and 0805 case sizes
- 0603 and 0.125 Watt power dissipation
- Applications include power supplies, test equipment, computers, telecommunication equipment

	0603 Case Size (HRC21 Series)	0805 Case Size (HRC21 Series)
Power rating	63mW	125mW
Resistance tolerance	±5%	±5%
Temperature coefficient	±300 x 10^{-6}/K	±300 x 10^{-6}/K
Operating voltage	50V max d.c. or a.c. rms	150V max d.c. or a.c. rms
Operating temperature	-55°C to +125°C	-55°C to +125°C

Stocked in the following OHMIC values:

0603 Case Size (HRC21 Series)

12M = **923-6368** 15M = **923-6376** 22M = **923-6384**

0805 Case Size (HRC11 Series)

12M = **923-6406** 22M = **923-6430** 39M = **923-6465** 68M = **923-6490**
15M = **923-6414** 27M = **923-6449** 47M = **923-6473** 82M = **923-6503**
18M = **923-6422** 33M = **923-6457** 56M = **923-6481** 100M = **923-6511**

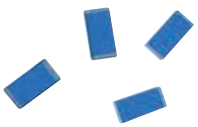
213422

RoHS ● Compliant ▲ Non-compliant

Case case Size	Order Code	Price Each 5+	25+	100+	500+	1K+
0603 (HRC21 Series)	All Values ● RL					
0805 (HRC11 Series)	All Values ● RL					

High Value Resistors 0805 Case Size

HR Series



- Terminations suitable for soldering
- Low voltage coefficient of resistance

Voltage Rating	Operating Temperature	Temperature Coefficient	Tolerance
100V	-55°C to +125°C	-2000ppm/°C to 0ppm/°C	± 10%

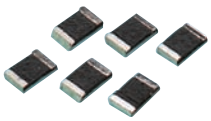
Stocked in the following OHMIC Values:

100M = **160-5131** 220M = **160-5133** 500M = **160-5135** 680M = **160-5137** 1G = **160-5138**
150M = **160-5132** 330M = **160-5134**

510477

Order Code	Price Each 5+	50+	250+	500+	1K+
All Values ●					

RH73 Series – High Ohmic Value



- 0805 case size high ohmic value thick film chip resistors
- Values from 2M2 to 50 Gig ohm
- Galvanic coated three layer terminal to ensure reliability
- Suitable for flow and reflow soldering

Supplied on tape (reel=1K pcs)

Power rating @ 70°C	125mW	Temperature range	-55°C to +125°C
Max. working voltage	100V	Case Size	0805

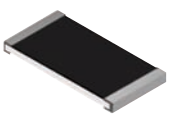
Resistance	Temp. Coefficient	Tolerance	Mfts. List No.	Order Code
2.2Mohm	±250ppm/°C	±5%	RH73U2A2M2JTD	117-4056
4.7Mohm	±250ppm/°C	±5%	RH73U2A4M7JTD	117-4059
6.8Mohm	±250ppm/°C	±5%	RH73U2A6M8JTD	117-4061
10Mohm	±250ppm/°C	±5%	RH73U2A10MJTD	117-4062
15Mohm	±100ppm/°C	±10%	RH73H2A15MKTN	117-4518
20Mohm	±100ppm/°C	±10%	RH73H2A20MKTN	117-4519
30Mohm	±100ppm/°C	±10%	RH73H2A30MKTN	117-4520
40Mohm	±100ppm/°C	±10%	RH73H2A40MKTN	117-4521
50Mohm	±100ppm/°C	±10%	RH73H2A50MKTN	117-4522
100Mohm	±100ppm/°C	±10%	RH73H2A100MKTN	117-4523
500Mohm	±500ppm/°C	±30%	RH73W2A500MNTN	117-4524
1Gohm	±500ppm/°C	±30%	RH73W2A1GNTN	117-4525
5Gohm	±500ppm/°C	±30%	RH73W2A5GNTN	117-4527
10Gohm	±1000ppm/°C	±30%	RH73X2A10GNTN	117-4528
20Gohm	±1000ppm/°C	±30%	RH73X2A20GNTN	117-4529
50Gohm	±1000ppm/°C	±30%	RH73X2A50GNTN	117-4530

207270

	Order Code	Price Each 25+	50+	100+	500+	1K+
2.2Mohm	SMD 117-4056● RL					
4.7Mohm	SMD 117-4059● RL					
6.8Mohm	SMD 117-4061● RL					
10Mohm	SMD 117-4062● RL					
		1+	25+	100+	500+	1K+
15Mohm	SMD 117-4518● RL					
20Mohm	SMD 117-4519● RL					
30Mohm	SMD 117-4520● RL					
40Mohm	SMD 117-4521● RL					
50Mohm	SMD 117-4522● RL					
100Mohm	SMD 117-4523● RL					
500Mohm	SMD 117-4524● RL					
1Gohm	SMD 117-4525● RL					
5Gohm	SMD 117-4527● RL					
10Gohm	SMD 117-4528● RL					
20Gohm	SMD 117-4529● RL					
50Gohm	SMD 117-4530● RL					

Anti-Surge & Pulse Withstanding

MCPWR Series



- High Power Rating
- Improved working voltage rating
- Economical
- Applications include Metering, Diagnostic Equipment, Medical Devices, Industrial Controls and Video Monitors

Tolerance	± 1%			
Operating Temperature	-55°C to +155°C			
	0805	**1206**	2010	**2512**
Voltage	150V	200V	400V	500V
Power Rating	125mW	330mW	750mW	1.5W
Dimensions (HxWxD)	2 x 1.25 x 0.5mm	3.1 x 1.55 x 0.55mm	5 x 2.5 x 0.55mm	6.35 x 3.1 x 0.55mm
Reel Qty.	10000	10000	4000	8000

0805 Case Size

Stocked in the following OHMIC Values:

10R = **188-7227** 200R = **188-7261** 3K9 = **188-7296** 68K = **188-7330** 1M2 = **188-7364**
11R = **188-7228** 220R = **188-7262** 4K3 = **188-7297** 75K = **188-7331** 1M3 = **188-7365**
12R = **188-7229** 240R = **188-7263** 4K7 = **188-7298** 82K = **188-7332** 1M5 = **188-7366**
13R = **188-7230** 270R = **188-7264** 5K1 = **188-7299** 91K = **188-7333** 1M6 = **188-7367**
15R = **188-7231** 300R = **188-7265** 5K6 = **188-7301** 100K = **188-7334** 1M8 = **188-7368**
16R = **188-7232** 330R = **188-7266** 6K2 = **188-7302** 110K = **188-7335** 2M = **188-7369**
18R = **188-7234** 360R = **188-7267** 6K8 = **188-7304** 120K = **188-7337** 2M2 = **188-7370**
20R = **188-7235** 390R = **188-7268** 7K5 = **188-7305** 130K = **188-7338** 2M4 = **188-7371**
22R = **188-7236** 430R = **188-7271** 8K2 = **188-7306** 150K = **188-7339** 2M7 = **188-7372**
24R = **188-7237** 470R = **188-7272** 9K1 = **188-7307** 160K = **188-7340** 3M = **188-7374**
27R = **188-7238** 510R = **188-7273** 10K = **188-7308** 180K = **188-7341** 3M2 = **188-7375**
30R = **188-7239** 560R = **188-7274** 11K = **188-7309** 200K = **188-7342** 3M6 = **188-7376**
33R = **188-7240** 620R = **188-7275** 12K = **188-7310** 220K = **188-7343** 3M9 = **188-7377**
36R = **188-7241** 680R = **188-7276** 13K = **188-7311** 240K = **188-7344** 4M3 = **188-7378**
39R = **188-7242** 750R = **188-7277** 15K = **188-7313** 270K = **188-7345** 4M7 = **188-7379**
43R = **188-7243** 820R = **188-7278** 16K = **188-7314** 300K = **188-7346** 5M1 = **188-7380**
47R = **188-7244** 910R = **188-7279** 18K = **188-7315** 330K = **188-7347** 5M6 = **188-7381**
51R = **188-7246** 1K = **188-7280** 20K = **188-7316** 360K = **188-7349** 6M2 = **188-7382**
56R = **188-7247** 1K1 = **188-7281** 22K = **188-7317** 390K = **188-7351** 6M8 = **188-7383**
62R = **188-7248** 1K2 = **188-7283** 24K = **188-7318** 430K = **188-7352** 7M5 = **188-7384**
68R = **188-7249** 1K3 = **188-7284** 27K = **188-7319** 470K = **188-7353** 8M2 = **188-7386**
75R = **188-7250** 1K5 = **188-7285** 30K = **188-7320** 510K = **188-7354** 9M1 = **188-7387**
82R = **188-7251** 1K6 = **188-7286** 33K = **188-7321** 560K = **188-7355** 10M = **188-7388**
91R = **188-7252** 1K8 = **188-7287** 36K = **188-7322** 620K = **188-7356** 11M = **188-7389**
100R = **188-7253** 2K = **188-7288** 39K = **188-7323** 680K = **188-7357** 12M = **188-7390**
110R = **188-7254** 2K2 = **188-7289** 43K = **188-7325** 750K = **188-7358** 13M = **188-7391**
120R = **188-7255** 2K4 = **188-7290** 47K = **188-7326** 820K = **188-7359** 15M = **188-7392**
130R = **188-7256** 2K7 = **188-7291** 51K = **188-7327** 910K = **188-7360** 16M = **188-7393**
150R = **188-7258** 3K = **188-7292** 56K = **188-7328** 1M = **188-7362** 18M = **188-7394**
160R = **188-7259** 3K3 = **188-7293** 62K = **188-7329** 1M1 = **188-7363** 20M = **188-7395**
180R = **188-7260** 3K6 = **188-7295**

Order Code	Price Each 25+	100+	500+	1K+	5K+
All Values ● RL					

1206 Case Size

Stocked in the following OHMIC Values:

10R = **188-7396** 200R = **188-7431** 3K9 = **188-7466** 68K = **188-7499** 1M2 = **188-7533**
11R = **188-7398** 220R = **188-7432** 4K3 = **188-7467** 75K = **188-7500** 1M3 = **188-7534**
12R = **188-7399** 240R = **188-7433** 4K7 = **188-7468** 82K = **188-7501** 1M5 = **188-7535**
13R = **188-7400** 270R = **188-7434** 5K1 = **188-7469** 91K = **188-7502** 1M6 = **188-7536**
15R = **188-7401** 300R = **188-7435** 5K6 = **188-7470** 100K = **188-7503** 1M8 = **188-7537**
16R = **188-7402** 330R = **188-7436** 6K2 = **188-7471** 110K = **188-7504** 2M = **188-7538**
18R = **188-7404** 360R = **188-7437** 6K8 = **188-7472** 120K = **188-7505** 2M2 = **188-7539**
20R = **188-7405** 390R = **188-7438** 7K5 = **188-7473** 130K = **188-7507** 2M4 = **188-7540**
22R = **188-7406** 430R = **188-7441** 8K2 = **188-7474** 150K = **188-7508** 2M7 = **188-7541**
24R = **188-7407** 470R = **188-7442** 9K1 = **188-7475** 160K = **188-7509** 3M = **188-7542**
27R = **188-7408** 510R = **188-7443** 10K = **188-7477** 180K = **188-7510** 3M3 = **188-7544**
30R = **188-7409** 560R = **188-7444** 11K = **188-7478** 200K = **188-7511** 3M6 = **188-7545**
33R = **188-7410** 620R = **188-7445** 12K = **188-7479** 220K = **188-7512** 3M9 = **188-7546**
36R = **188-7411** 680R = **188-7446** 13K = **188-7480** 240K = **188-7513** 4M3 = **188-7547**
39R = **188-7412** 750R = **188-7447** 15K = **188-7481** 270K = **188-7514** 4M7 = **188-7548**
43R = **188-7413** 820R = **188-7448** 16K = **188-7482** 300K = **188-7515** 5M1 = **188-7549**
47R = **188-7414** 910R = **188-7449** 18K = **188-7483** 330K = **188-7516** 5M6 = **188-7550**
51R = **188-7416** 1K = **188-7450** 20K = **188-7484** 360K = **188-7517** 6M2 = **188-7551**
56R = **188-7417** 1K1 = **188-7451** 22K = **188-7485** 390K = **188-7519** 6M8 = **188-7552**
62R = **188-7418** 1K2 = **188-7453** 24K = **188-7486** 430K = **188-7521** 7M5 = **188-7553**
68R = **188-7419** 1K3 = **188-7454** 27K = **188-7487** 470K = **188-7522** 8M2 = **188-7554**
75R = **188-7420** 1K5 = **188-7455** 30K = **188-7489** 510K = **188-7523** 9M1 = **188-7556**
82R = **188-7421** 1K6 = **188-7456** 33K = **188-7491** 560K = **188-7524** 10M = **188-7557**
91R = **188-7422** 1K8 = **188-7457** 36K = **188-7492** 620K = **188-7525** 11M = **188-7558**
100R = **188-7423** 2K = **188-7458** 39K = **188-7493** 680K = **188-7526** 12M = **188-7559**
110R = **188-7424** 2K2 = **188-7459** 43K = **188-7494** 750K = **188-7527** 13M = **188-7560**
120R = **188-7425** 2K4 = **188-7460** 47K = **188-7495** 820K = **188-7528** 15M = **188-7561**
130R = **188-7426** 2K7 = **188-7461** 51K = **188-7496** 910K = **188-7529** 16M = **188-7562**
150R = **188-7428** 3K = **188-7462** 56K = **188-7497** 1M = **188-7530** 18M = **188-7563**
160R = **188-7429** 3K3 = **188-7463** 62K = **188-7498** 1M1 = **188-7532** 20M = **188-7564**
180R = **188-7430** 3K6 = **188-7465**

Order Code	Price Each 25+	100+	500+	1K+	5K+
All Values ● RL					

2010 Case Size

Stocked in the following OHMIC Values:

10R = **188-7565** 160R = **188-7598** 2K7 = **188-7630** 43K = **188-7663** 680K = **188-7694**
11R = **188-7566** 180R = **188-7599** 3K = **188-7631** 47K = **188-7664** 750K = **188-7696**
12R = **188-7568** 200R = **188-7600** 3K3 = **188-7632** 51K = **188-7665** 820K = **188-7697**
13R = **188-7569** 220R = **188-7601** 3K6 = **188-7633** 56K = **188-7666** 910K = **188-7698**
15R = **188-7570** 240R = **188-7602** 3K9 = **188-7635** 62K = **188-7667** 1M = **188-7699**
16R = **188-7571** 270R = **188-7603** 4K3 = **188-7636** 68K = **188-7668** 1M1 = **188-7700**
18R = **188-7572** 300R = **188-7604** 4K7 = **188-7637** 75K = **188-7669** 1M2 = **188-7702**
20R = **188-7573** 330R = **188-7605** 5K1 = **188-7638** 82K = **188-7670** 1M3 = **188-7703**
22R = **188-7574** 360R = **188-7606** 5K6 = **188-7639** 91K = **188-7672** 1M5 = **188-7704**
24R = **188-7575** 390R = **188-7607** 6K2 = **188-7640** 100K = **188-7673** 1M6 = **188-7705**
27R = **188-7576** 430R = **188-7608** 6K8 = **188-7641** 110K = **188-7674** 1M8 = **188-7706**
30R = **188-7577** 470R = **188-7611** 7K5 = **188-7642** 120K = **188-7675** 2M = **188-7707**
33R = **188-7578** 510R = **188-7612** 8K2 = **188-7643** 130K = **188-7676** 2M2 = **188-7708**
36R = **188-7581** 560R = **188-7613** 9K1 = **188-7644** 150K = **188-7677** 2M4 = **188-7709**
39R = **188-7582** 620R = **188-7614** 10K = **188-7645** 160K = **188-7678** 2M7 = **188-7710**
43R = **188-7583** 680R = **188-7615** 11K = **188-7647** 180K = **188-7679** 3M = **188-7711**
47R = **188-7584** 750R = **188-7616** 12K = **188-7648** 200K = **188-7680** 3M2 = **188-7712**
51R = **188-7585** 820R = **188-7617** 13K = **188-7649** 220K = **188-7681** 3M6 = **188-7714**
56R = **188-7586** 910R = **188-7618** 15K = **188-7650** 240K = **188-7682** 3M9 = **188-7715**
62R = **188-7587** 1K = **188-7619** 16K = **188-7651** 270K = **188-7684** 4M3 = **188-7716**
68R = **188-7588** 1K1 = **188-7620** 18K = **188-7652** 300K = **188-7685** 4M7 = **188-7717**
75R = **188-7589** 1K2 = **188-7621** 20K = **188-7653** 330K = **188-7686** 5M1 = **188-7718**
82R = **188-7590** 1K3 = **188-7623** 22K = **188-7654** 360K = **188-7687** 5M6 = **188-7719**
91R = **188-7591** 1K5 = **188-7624** 24K = **188-7655** 390K = **188-7688** 6M2 = **188-7720**
100R = **188-7593** 1K6 = **188-7625** 27K = **188-7656** 430K = **188-7689** 6M8 = **188-7721**
110R = **188-7594** 1K8 = **188-7626** 30K = **188-7657** 470K = **188-7690** 7M5 = **188-7722**
120R = **188-7595** 2K = **188-7627** 33K = **188-7659** 510K = **188-7691** 8M2 = **188-7723**
130R = **188-7596** 2K2 = **188-7628** 36K = **188-7661** 560K = **188-7692** 9M1 = **188-7724**
150R = **188-7597** 2K4 = **188-7629** 39K = **188-7662** 620K = **188-7693** 10M = **188-7726**

MCPWR Series - continued

1206 Case Size - continued

11M = **188-7727**	13M = **188-7729**	16M = **188-7731**	18M = **188-7732**	20M = **188-7733**
12M = **188-7728**	15M = **188-7730**			

Order Code	Price Each 25+	100+	500+	1K+	5K+
All Values ● RL					

2512 Case Size

Stocked in the following OHMIC Values:

10R = **188-7734**	200R = **188-7769**	3K9 = **188-7805**	68K = **188-7838**	1M2 = **188-7871**
11R = **188-7735**	220R = **188-7770**	4K3 = **188-7806**	75K = **188-7839**	1M3 = **188-7872**
12R = **188-7736**	240R = **188-7771**	4K7 = **188-7807**	82K = **188-7840**	1M5 = **188-7873**
13R = **188-7738**	270R = **188-7772**	5K1 = **188-7808**	91K = **188-7842**	1M6 = **188-7874**
15R = **188-7739**	300R = **188-7773**	5K6 = **188-7809**	100K = **188-7843**	1M8 = **188-7875**
16R = **188-7740**	330R = **188-7775**	6K2 = **188-7810**	110K = **188-7844**	2M = **188-7876**
18R = **188-7741**	360R = **188-7776**	6K8 = **188-7811**	120K = **188-7845**	2M2 = **188-7878**
20R = **188-7742**	390R = **188-7777**	7K5 = **188-7812**	130K = **188-7846**	2M4 = **188-7879**
22R = **188-7743**	430R = **188-7778**	8K2 = **188-7813**	150K = **188-7847**	2M7 = **188-7880**
24R = **188-7744**	470R = **188-7780**	9K1 = **188-7814**	160K = **188-7848**	3M = **188-7881**
27R = **188-7745**	510R = **188-7781**	10K = **188-7815**	180K = **188-7849**	3M2 = **188-7882**
30R = **188-7746**	560R = **188-7782**	11K = **188-7817**	200K = **188-7850**	3M6 = **188-7883**
33R = **188-7747**	620R = **188-7783**	12K = **188-7818**	220K = **188-7851**	3M9 = **188-7884**
36R = **188-7748**	680R = **188-7784**	13K = **188-7819**	240K = **188-7852**	4M3 = **188-7885**
39R = **188-7751**	750R = **188-7785**	15K = **188-7820**	270K = **188-7854**	4M7 = **188-7886**
43R = **188-7752**	820R = **188-7787**	16K = **188-7821**	300K = **188-7855**	5M1 = **188-7887**
47R = **188-7753**	910R = **188-7788**	18K = **188-7822**	330K = **188-7856**	5M6 = **188-7888**
51R = **188-7754**	1K = **188-7789**	20K = **188-7823**	360K = **188-7857**	6M2 = **188-7891**
56R = **188-7755**	1K1 = **188-7790**	22K = **188-7824**	390K = **188-7858**	6M8 = **188-7892**
62R = **188-7756**	1K2 = **188-7791**	24K = **188-7825**	430K = **188-7859**	7M5 = **188-7893**
68R = **188-7757**	1K3 = **188-7792**	27K = **188-7826**	470K = **188-7860**	8M2 = **188-7894**
75R = **188-7758**	1K5 = **188-7793**	30K = **188-7827**	510K = **188-7861**	9M1 = **188-7895**
82R = **188-7759**	1K6 = **188-7794**	33K = **188-7829**	560K = **188-7862**	10M = **188-7896**
91R = **188-7760**	1K8 = **188-7795**	36K = **188-7831**	620K = **188-7863**	11M = **188-7897**
100R = **188-7761**	2K = **188-7796**	39K = **188-7832**	680K = **188-7864**	12M = **188-7898**
110R = **188-7763**	2K2 = **188-7797**	43K = **188-7833**	750K = **188-7866**	13M = **188-7899**
120R = **188-7764**	2K4 = **188-7799**	47K = **188-7834**	820K = **188-7867**	15M = **188-7900**
130R = **188-7765**	2K7 = **188-7800**	51K = **188-7835**	910K = **188-7868**	16M = **188-7901**
150R = **188-7766**	3K = **188-7801**	56K = **188-7836**	1M = **188-7869**	18M = **188-7902**
160R = **188-7767**	3K3 = **188-7802**	62K = **188-7837**	1M1 = **188-7870**	20M = **188-7903**
180R = **188-7768**	3K6 = **188-7803**			

639282

Order Code	Price Each 25+	100+	500+	1K+	5K+
All Values ● RL					

CRCW HP Series

- High and repetitive surge and pulse loading applications
- Densely populated PCBs
- High Power Resistor
- Automotive standard AEC-Q200 rev.C qualified
- Double sided printed design
- Saves space on the PCB.
- Reduce stresses in PCBs caused by temperature changes.

Tolerance	± 1%
Operating Temperature	-55°C to +155°C
Temperature Coeff.	± 100ppm/K

	0402	0603	0805	1206
Voltage	50V	75V	150V	200V
Power Rating	125mW	250mW	330mW	500mW
Dimensions (HxWxD)	0.3 x 1 x 0.5mm	0.45 x 1.6 x 0.85mm	0.5 x 2 x 1.25mm	0.5 x 3.1 x 1.6mm
Reel Qty.	10000	5000	5000	5000

0402 Case Size

Stocked in the following OHMIC Values:

10R = **173-8824**	68R = **173-8834**	470R = **173-8845**	3K3 = **173-8856**	22K = **173-8868**
12R = **173-8825**	82R = **173-8836**	560R = **173-8846**	3K9 = **173-8857**	27K = **173-8869**
15R = **173-8826**	100R = **173-8837**	680R = **173-8848**	4K7 = **173-8858**	33K = **173-8870**
18R = **173-8827**	120R = **173-8838**	820R = **173-8849**	5K6 = **173-8861**	39K = **173-8871**
22R = **173-8828**	150R = **173-8839**	1K = **173-8850**	6K8 = **173-8862**	47K5 = **173-8873**
27R = **173-8829**	180R = **173-8840**	1K2 = **173-8851**	8K2 = **173-8863**	56K = **173-8874**
33R = **173-8830**	220R = **173-8841**	1K5 = **173-8852**	10K = **173-8864**	68K = **173-8875**
39R = **173-8831**	270R = **173-8842**	1K8 = **173-8853**	12K = **173-8865**	82K = **173-8876**
47R = **173-8832**	330R = **173-8843**	2K2 = **173-8854**	15K = **173-8866**	100K = **173-8877**
56R = **173-8833**	390R = **173-8844**	2K7 = **173-8855**	18K = **173-8867**	

Order Code	Price Each 25+	100+	500+	1K+	10K+
All Values ● RL					

0603 Case Size

Stocked in the following OHMIC Values:

10R = **173-8878**	68R = **173-8889**	470R = **173-8900**	3K3 = **173-8911**	22K = **173-8922**
12R = **173-8879**	82R = **173-8890**	560R = **173-8901**	3K9 = **173-8912**	27K = **173-8923**
15R = **173-8880**	100R = **173-8891**	680R = **173-8903**	4K7 = **173-8913**	33K = **173-8924**
18R = **173-8881**	120R = **173-8892**	820R = **173-8904**	5K6 = **173-8915**	39K = **173-8925**
22R = **173-8882**	150R = **173-8893**	1K = **173-8905**	6K8 = **173-8916**	47K = **173-8927**
27R = **173-8883**	180R = **173-8894**	1K2 = **173-8906**	8K2 = **173-8917**	56K = **173-8928**
33R = **173-8885**	220R = **173-8895**	1K5 = **173-8907**	10K = **173-8918**	68K = **173-8929**
39R = **173-8886**	270R = **173-8897**	1K8 = **173-8908**	12K = **173-8919**	82K = **173-8930**
47R = **173-8887**	330R = **173-8898**	2K2 = **173-8909**	15K = **173-8920**	100K = **173-8931**
56R = **173-8888**	390R = **173-8899**	2K7 = **173-8910**	18K = **173-8921**	

Order Code	Price Each 25+	100+	500+	1K+	5K+
All Values ● RL					

0805 Case Size

Stocked in the following OHMIC Values:

10R = **173-8932**	68R = **173-8944**	470R = **173-8955**	3K3 = **173-8966**	22K = **173-8977**
12R = **173-8933**	82R = **173-8945**	560R = **173-8956**	3K9 = **173-8967**	27K = **173-8978**
15R = **173-8934**	100R = **173-8946**	680R = **173-8957**	4K7 = **173-8968**	33K = **173-8979**
18R = **173-8935**	120R = **173-8947**	820R = **173-8958**	5K6 = **173-8969**	39K = **173-8980**
22R = **173-8936**	150R = **173-8948**	1K = **173-8959**	6K8 = **173-8970**	47K = **173-8981**
27R = **173-8937**	180R = **173-8949**	1K2 = **173-8960**	8K2 = **173-8971**	56K = **173-8982**
33R = **173-8939**	220R = **173-8950**	1K5 = **173-8961**	10K = **173-8972**	68K = **173-8983**
39R = **173-8941**	270R = **173-8952**	1K8 = **173-8962**	12K = **173-8973**	82K = **173-8984**
47R = **173-8942**	330R = **173-8953**	2K2 = **173-8964**	15K = **173-8974**	100K = **173-8985**
56R = **173-8943**	390R = **173-8954**	2K7 = **173-8965**	18K = **173-8976**	

Order Code	Price Each 25+	100+	500+	1K+	5K+
All Values ● RL					

1206 Case Size

Stocked in the following OHMIC Values:

10R = **173-8986**	82R = **173-8997**	560R = **173-9009**	3K9 = **173-9020**	22K = **173-9030**
12R = **173-8988**	100R = **173-8998**	680R = **173-9010**	4K7 = **173-9021**	27K = **173-9031**
15R = **173-8989**	120R = **173-9000**	820R = **173-9011**	5K6 = **173-9022**	33K = **173-9032**
18R = **173-8990**	150R = **173-9002**	1K = **173-9012**	6K8 = **173-9023**	39K = **173-9033**
27R = **173-8991**	180R = **173-9003**	1K2 = **173-9014**	8K2 = **173-9024**	47K = **173-9034**
33R = **173-8992**	220R = **173-9004**	1K5 = **173-9015**	10K = **173-9026**	56K = **173-9035**
39R = **173-8993**	270R = **173-9005**	1K8 = **173-9016**	12K = **173-9027**	68K = **173-9036**
47R = **173-8994**	330R = **173-9006**	2K2 = **173-9017**	15K = **173-9028**	82K = **173-9038**
56R = **173-8995**	390R = **173-9007**	2K7 = **173-9018**	18K = **173-9029**	100K = **173-9039**
68R = **173-8996**	470R = **173-9008**	3K3 = **173-9019**		

541697

Order Code	Price Each 25+	100+	500+	1K+	5K+
All Values ● RL					

CRCW IF Series

- High and repetitive pulse loading applications
- High pulse performance
- Excellent stability
- Automotive standard AEC-Q200 rev.C qualified

Tolerance	± 5%
Operating Temperature	-55°C to +155°C
Temperature Coeff.	± 200ppm/K

	0402	0603	0805	1206
Voltage	50V	75V	150V	200V
Power Rating	63mW	100mW	125mW	250mW
Dimensions (HxWxD)	0.35 x 1 x 0.5mm	0.45 x 1.55 x 0.85mm	0.45 x 2 x 1.25mm	0.55 x 3.2 x 1.6mm
Reel Qty.	10000	5000	5000	5000

0402 Case Size

Stocked in the following OHMIC Values:

1R = **173-9054**	12R = **173-9068**	120R = **173-9081**	1K2 = **173-9094**	12K = **173-9108**
1R2 = **173-9055**	15R = **173-9069**	150R = **173-9082**	1K5 = **173-9095**	15K = **173-9109**
1R5 = **173-9056**	18R = **173-9070**	180R = **173-9083**	1K8 = **173-9096**	18K = **173-9110**
1R8 = **173-9057**	22R = **173-9071**	220R = **173-9084**	2K2 = **173-9097**	22K = **173-9111**
2R2 = **173-9058**	27R = **173-9072**	270R = **173-9085**	2K7 = **173-9099**	27K = **173-9112**
2R7 = **173-9059**	33R = **173-9073**	330R = **173-9087**	3K3 = **173-9100**	33K = **173-9113**
3R3 = **173-9060**	39R = **173-9075**	390R = **173-9088**	3K9 = **173-9101**	39K = **173-9114**
3R9 = **173-9061**	47R = **173-9076**	470R = **173-9089**	4K7 = **173-9102**	47K = **173-9115**
4R7 = **173-9063**	56R = **173-9077**	560R = **173-9090**	5K6 = **173-9103**	56K = **173-9117**
5R6 = **173-9064**	68R = **173-9078**	680R = **173-9091**	6K8 = **173-9105**	68K = **173-9118**
6R8 = **173-9065**	82R = **173-9079**	820R = **173-9092**	8K2 = **173-9106**	82K = **173-9119**
8R2 = **173-9066**	100R = **173-9080**	1K = **173-9093**	10K = **173-9107**	100K = **173-9120**
10R = **173-9067**				

Order Code	Price Each 25+	100+	500+	1K+	10K+
All Values ● RL					

0603 Case Size

Stocked in the following OHMIC Values:

1R = **173-9121**	12R = **173-9136**	120R = **173-9149**	1K2 = **173-9162**	12K = **173-9175**
1R2 = **173-9122**	15R = **173-9137**	150R = **173-9150**	1K5 = **173-9163**	15K = **173-9176**
1R5 = **173-9123**	18R = **173-9138**	180R = **173-9151**	1K8 = **173-9164**	18K = **173-9178**
1R8 = **173-9124**	22R = **173-9139**	220R = **173-9152**	2K2 = **173-9166**	22K = **173-9179**
2R2 = **173-9125**	27R = **173-9140**	270R = **173-9154**	2K7 = **173-9167**	27K = **173-9180**
2R7 = **173-9126**	33R = **173-9142**	330R = **173-9155**	3K3 = **173-9168**	33K = **173-9181**
3R3 = **173-9127**	39R = **173-9143**	390R = **173-9156**	3K9 = **173-9169**	39K = **173-9182**
3R9 = **173-9129**	47R = **173-9144**	470R = **173-9157**	4K7 = **173-9170**	47K = **173-9183**
4R7 = **173-9131**	56R = **173-9145**	560R = **173-9158**	5K6 = **173-9171**	56K = **173-9184**
5R6 = **173-9132**	68R = **173-9146**	680R = **173-9159**	6K8 = **173-9172**	68K = **173-9185**
6R8 = **173-9133**	82R = **173-9147**	820R = **173-9160**	8K2 = **173-9173**	82K = **173-9186**
8R2 = **173-9134**	100R = **173-9148**	1K = **173-9161**	10K = **173-9174**	100K = **173-9187**
10R = **173-9135**				

Order Code	Price Each 25+	100+	500+	1K+	5K+
All Values ● RL					

0805 Case Size

Stocked in the following OHMIC Values:

1R = **173-9188**	1R5 = **173-9192**	2R2 = **173-9194**	3R3 = **173-9196**	4R7 = **173-9198**
1R2 = **173-9191**	1R8 = **173-9193**	2R7 = **173-9195**	3R9 = **173-9197**	5R6 = **173-9199**

RoHS ● Compliant ▲ Non-compliant

6R8 = **173-9200**	56R = **173-9212**	390R = **173-9224**	2K7 = **173-9235**	18K = **173-9246**
8R2 = **173-9201**	68R = **173-9213**	470R = **173-9225**	3K3 = **173-9236**	22K = **173-9247**
10R = **173-9202**	82R = **173-9214**	560R = **173-9226**	3K9 = **173-9237**	27K = **173-9248**
12R = **173-9203**	100R = **173-9215**	680R = **173-9227**	4K7 = **173-9238**	33K = **173-9249**
15R = **173-9204**	120R = **173-9216**	820R = **173-9228**	5K6 = **173-9239**	39K = **173-9250**
18R = **173-9205**	150R = **173-9217**	1K = **173-9229**	6K8 = **173-9240**	47K = **173-9251**
22R = **173-9206**	180R = **173-9218**	1K2 = **173-9230**	8K2 = **173-9241**	56K = **173-9252**
27R = **173-9208**	220R = **173-9221**	1K5 = **173-9231**	10K = **173-9242**	68K = **173-9253**
33R = **173-9209**	270R = **173-9222**	1K8 = **173-9233**	12K = **173-9243**	82K = **173-9254**
39R = **173-9210**	330R = **173-9223**	2K2 = **173-9234**	15K = **173-9245**	100K = **173-9255**
47R = **173-9211**				

Order Code	Price Each 25+	100+	500+	1K+	5K+
All Values ● RL					

1206 Case Size

Stocked in the following OHMIC Values:

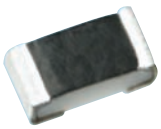
1R = **173-9257**	12R = **173-9272**	120R = **173-9285**	1K2 = **173-9298**	12K = **173-9312**
1R2 = **173-9258**	15R = **173-9273**	150R = **173-9286**	1K5 = **173-9299**	15K = **173-9313**
1R5 = **173-9259**	18R = **173-9274**	180R = **173-9287**	1K8 = **173-9301**	18K = **173-9314**
1R8 = **173-9260**	22R = **173-9275**	220R = **173-9288**	2K2 = **173-9302**	22K = **173-9315**
2R2 = **173-9261**	27R = **173-9276**	270R = **173-9289**	2K7 = **173-9303**	27K = **173-9316**
2R7 = **173-9262**	33R = **173-9277**	330R = **173-9290**	3K3 = **173-9304**	33K = **173-9317**
3R3 = **173-9263**	39R = **173-9278**	390R = **173-9291**	3K9 = **173-9305**	39K = **173-9318**
3R9 = **173-9264**	47R = **173-9279**	470R = **173-9292**	4K7 = **173-9306**	47K = **173-9319**
4R7 = **173-9265**	56R = **173-9280**	560R = **173-9294**	5K6 = **173-9307**	56K = **173-9320**
5R6 = **173-9266**	68R = **173-9282**	680R = **173-9295**	6K8 = **173-9308**	68K = **173-9321**
6R8 = **173-9267**	82R = **173-9283**	820R = **173-9296**	8K2 = **173-9309**	82K = **173-9322**
8R2 = **173-9269**	100R = **173-9284**	1K = **173-9297**	10K = **173-9310**	100K = **173-9324**
10R = **173-9271**				

541704

Order Code	Price Each 25+	100+	500+	1K+	5K+
All Values ● RL					

ERJP Anti Surge Series

Panasonic



- Anti-Surge characteristics superior to standard metal film resistors
- High reliability
- Metal glaze thick film resistive element and three layers of electrodes
- Suitable for both reflow and flow soldering
- AECQ-200 Automotive Approved

	0603 Case Size	0805 Case Size	1206 Case Size	1210 Case Size
Power rating @ 70°C	200mW	250mW	330mW	500mW
Tolerance				
< 10 Ω	± 5%	± 5%	± 5%	± 5%
≥ 10 Ω	± 1%	± 1%	± 1%	± 1%
Reel Quantity	5000	5000	5000	5000

0603 Case

1R	175-0633	36R	NEW 189-4099	1K1	NEW 189-4119	36K	NEW 189-4138
1R1	NEW 189-4358	39R	175-0654	1K2	175-0673	39K	175-0695
1R2	175-0634	43R	NEW 189-4100	1K3	NEW 189-4120	43K	NEW 189-4139
1R3	NEW 189-4359	47R	175-0655	1K5	175-0674	47K	175-0696
1R5	175-0635	51R	NEW 189-4101	1K6	NEW 189-4121	51K	NEW 189-4140
1R6	NEW 189-4360	56R	175-0656	1K8	175-0675	56K	175-0697
1R8	175-0636	62R	NEW 189-4102	2K	NEW 189-4123	62K	NEW 189-4141
2R	NEW 189-4361	68R	175-0657	2K2	175-0676	68K	175-0698
2R2	175-0637	75R	NEW 189-4103	2K4	NEW 189-4124	75K	NEW 189-4142
2R4	NEW 189-4362	82R	175-0658	2K7	175-0678	82K	175-0699
2R7	175-0638	91R	NEW 189-4104	3K	NEW 189-4125	91K	NEW 189-4143
3R	NEW 189-4363	100R	175-0659	3K3	175-0679	100K	175-0700
3R3	175-0639	110R	NEW 189-4105	3K6	NEW 189-4126	110K	NEW 189-4144
3R6	NEW 189-4364	120R	175-0660	3K9	175-0680	120K	175-0701
3R9	175-0640	130R	NEW 189-4106	4K3	NEW 189-4127	130K	NEW 189-4145
4R3	NEW 189-4366	150R	175-0661	4K7	175-0681	150K	175-0702
4R7	175-0642	160R	NEW 189-4107	5K1	NEW 189-4128	160K	NEW 189-4147
5R1	NEW 189-4367	180R	175-0662	5K6	175-0682	180K	175-0703
5R6	175-0643	200R	NEW 189-4108	6K2	NEW 189-4129	200K	NEW 189-4148
6R2	NEW 189-4368	220R	175-0663	6K8	175-0683	220K	175-0704
6R8	175-0644	240R	NEW 189-4111	7K5	175-0684	240K	NEW 189-4149
7R5	NEW 189-4369	270R	175-0664	8K2	175-0685	270K	175-0705
8R2	175-0645	300R	NEW 189-4112	9K1	NEW 189-4130	300K	NEW 189-4150
9R1	NEW 189-4370	330R	175-0666	10K	175-0686	330K	175-0706
10R	175-0646	360R	NEW 189-4113	11K	NEW 189-4131	360K	NEW 189-4151
11R	NEW 189-4093	390R	175-0667	12K	175-0687	390K	175-0708
12R	175-0647	430R	NEW 189-4114	13K	NEW 189-4132	430K	NEW 189-4152
13R	NEW 189-4094	470R	175-0668	15K	175-0688	470K	175-0709
15R	175-0648	510R	NEW 189-4115	16K	NEW 189-4133	510K	NEW 189-4153
16R	NEW 189-4095	560R	175-0669	18K	175-0691	560K	175-0710
18R	175-0649	620R	NEW 189-4116	20K	NEW 189-4135	620K	NEW 189-4154
20R	NEW 189-4096	680R	175-0670	22K	175-0692	680K	175-0711
22R	175-0650	750R	NEW 189-4117	24K	NEW 189-4136	750K	NEW 189-4155
24R	NEW 189-4097	820R	175-0671	27K	175-0693	820K	175-0712
27R	175-0651	910R	NEW 189-4118	30K	NEW 189-4137	910K	NEW 189-4156
30R	NEW 189-4098	1K	175-0672	33K	175-0694	1M	175-0713
33R	175-0652						

0805 Case

1R	175-0714	3R6	NEW 189-4378	12R	175-0729	43R	NEW 189-4166
1R1	NEW 189-4371	3R9	175-0723	13R	NEW 189-4159	47R	175-0737
1R2	175-0715	4R3	NEW 189-4379	15R	175-0730	51R	NEW 189-4167
1R3	NEW 189-4372	4R7	175-0724	16R	NEW 189-4161	56R	175-0738
1R5	175-0716	5R1	NEW 189-4380	18R	175-0731	62R	NEW 189-4168
1R6	NEW 189-4373	5R6	175-0725	20R	NEW 189-4162	68R	175-0739
1R8	175-0717	6R2	NEW 189-4381	22R	175-0733	75R	NEW 189-4169
2R	NEW 189-4374	6R8	175-0726	24R	NEW 189-4163	82R	175-0740
2R2	175-0718	7R5	NEW 189-4382	27R	175-0734	91R	NEW 189-4170
2R4	NEW 189-4375	8R2	175-0727	30R	NEW 189-4164	100R	175-0741
2R7	175-0721	9R1	NEW 189-4383	33R	175-0735	110R	NEW 189-4172
3R	NEW 189-4376	10R	175-0728	36R	NEW 189-4165	120R	175-0742
3R3	175-0722	11R	NEW 189-4157	39R	175-0736	130R	NEW 189-4173
150R	175-0743	2K	NEW 189-4188	24K	NEW 189-4203	300K	NEW 189-4217
160R	NEW 189-4174	2K2	175-0759	27K	175-0775	330K	175-0789
180R	175-0745	2K4	NEW 189-4189	30K	NEW 189-4204	360K	NEW 189-4218
200R	NEW 189-4175	2K7	175-0760	33K	175-0776	390K	175-0790
220R	175-0746	3K	NEW 189-4190	36K	NEW 189-4205	430K	NEW 189-4219
240R	NEW 189-4176	3K3	175-0761	39K	175-0777	470K	175-0791
270R	175-0747	3K6	NEW 189-4191	43K	NEW 189-4206	510K	NEW 189-4220
300R	NEW 189-4177	3K9	175-0762	47K	175-0778	560K	175-0792
330R	175-0748	4K3	NEW 189-4192	51K	NEW 189-4207	620K	NEW 189-4221
360R	NEW 189-4178	4K7	175-0763	56K	175-0779	680K	175-0794
390R	175-0749	5K1	NEW 189-4193	62K	NEW 189-4208	750K	NEW 189-4222
430R	NEW 189-4179	5K6	175-0764	68K	175-0780	820K	175-0795
470R	175-0750	6K2	NEW 189-4194	75K	NEW 189-4209	910K	NEW 189-4223
510R	NEW 189-4180	6K8	175-0765	82K	175-0782	1M	175-0796
560R	175-0751	7K5	NEW 189-4196	91K	NEW 189-4210	1M1	NEW 189-4384
620R	NEW 189-4181	8K2	175-0766	100K	175-0783	1M2	NEW 189-4385
680R	175-0752	9K1	NEW 189-4197	110K	NEW 189-4211	1M3	NEW 189-4386
750R	NEW 189-4182	10K	175-0767	120K	175-0784	1M5	NEW 189-4387
820R	175-0753	11K	NEW 189-4198	130K	NEW 189-4212	1M6	NEW 189-4388
910R	NEW 189-4184	12K	175-0769	150K	175-0785	1M8	NEW 189-4391
1K	175-0754	13K	NEW 189-4199	160K	NEW 189-4214	2M	NEW 189-4392
1K1	NEW 189-4185	15K	175-0772	180K	175-0786	2M2	NEW 189-4393
1K2	175-0755	16K	NEW 189-4200	200K	NEW 189-4215	2M4	NEW 189-4394
1K3	NEW 189-4186	18K	175-0773	220K	175-0787	2M7	NEW 189-4395
1K5	175-0757	20K	NEW 189-4202	240K	NEW 189-4216	3M	NEW 189-4396
1K6	NEW 189-4187	22K	175-0774	270K	175-0788	3M3	NEW 189-4397
1K8	175-0758						

1206 Case

1R	175-0797	62R	NEW 189-4234	3K6	NEW 189-4258	200K	NEW 189-4281
1R1	NEW 189-4398	68R	175-0821	3K9	175-0844	220K	175-0868
1R2	175-0798	75R	NEW 189-4235	4K3	NEW 189-4259	240K	NEW 189-4282
1R3	NEW 189-4399	82R	175-0822	4K7	175-0845	270K	175-0869
1R5	175-0799	91R	NEW 189-4236	5K1	NEW 189-4260	300K	NEW 189-4283
1R6	NEW 189-4400	100R	175-0824	5K6	175-0846	330K	175-0870
1R8	175-0801	110R	NEW 189-4238	6K2	NEW 189-4261	360K	NEW 189-4284
2R	NEW 189-4401	120R	175-0825	6K8	175-0848	390K	175-0871
2R4	NEW 189-4402	130R	NEW 189-4239	7K5	NEW 189-4263	430K	NEW 189-4285
2R7	175-0802	150R	175-0826	8K2	175-0849	470K	175-0873
2R7	175-0803	160R	NEW 189-4240	9K1	NEW 189-4264	510K	NEW 189-4287
3R	NEW 189-4403	180R	175-0827	10K	175-0850	560K	175-0874
3R3	175-0804	200R	NEW 189-4241	11K	NEW 189-4265	620K	NEW 189-4288
3R6	NEW 189-4404	220R	175-0828	12K	175-0851	680K	175-0875
3R9	175-0805	240R	NEW 189-4242	13K	NEW 189-4266	750K	NEW 189-4289
4R3	NEW 189-4405	270R	175-0829	15K	175-0852	820K	175-0876
4R7	175-0806	300R	NEW 189-4243	16K	NEW 189-4267	910K	NEW 189-4290
5R1	NEW 189-4406	330R	175-0830	18K	175-0853	1M	175-0877
5R6	175-0807	360R	NEW 189-4244	20K	NEW 189-4268	1M1	NEW 189-4411
6R2	NEW 189-4408	390R	175-0831	22K	175-0854	1M2	NEW 189-4412
6R8	175-0808	430R	NEW 189-4245	24K	NEW 189-4269	1M3	NEW 189-4413
7R5	NEW 189-4409	470R	175-0832	27K	175-0855	1M5	NEW 189-4414
8R2	175-0809	510R	NEW 189-4246	30K	NEW 189-4270	1M6	NEW 189-4415
9R1	NEW 189-4410	560R	175-0833	33K	175-0856	1M8	NEW 189-4416
10R	175-0810	620R	NEW 189-4247	36K	NEW 189-4271	2M	NEW 189-4417
11R	NEW 189-4224	680R	175-0834	39K	175-0857	2M2	NEW 189-4418
12R	175-0812	750R	NEW 189-4248	43K	NEW 189-4272	2M4	NEW 189-4421
13R	NEW 189-4226	820R	175-0836	47K	175-0858	2M7	NEW 189-4422
15R	175-0813	910R	NEW 189-4251	51K	NEW 189-4273	3M	NEW 189-4423
16R	NEW 189-4227	1K	175-0837	56K	175-0861	3M3	NEW 189-4424
18R	175-0814	1K1	NEW 189-4252	62K	NEW 189-4275	3M6	NEW 189-4425
20R	NEW 189-4228	1K2	175-0838	68K	175-0862	3M9	NEW 189-4426
22R	175-0815	1K3	NEW 189-4253	75K	NEW 189-4276	4M3	NEW 189-4427
24R	NEW 189-4229	1K5	175-0839	82K	175-0863	4M7	NEW 189-4428
27R	175-0816	1K6	NEW 189-4254	91K	NEW 189-4277	5M1	NEW 189-4429
30R	NEW 189-4230	1K8	175-0840	100K	175-0864	5M6	NEW 189-4430
33R	175-0817	2K	NEW 189-4255	110K	NEW 189-4278	6M2	NEW 189-4431
36R	NEW 189-4231	2K2	175-0841	120K	175-0865	6M8	NEW 189-4433
39R	175-0818	2K4	NEW 189-4256	130K	NEW 189-4279	7M5	NEW 189-4434
43R	NEW 189-4232	2K7	175-0842	150K	175-0866	8M2	NEW 189-4435
47R	175-0819	3K	NEW 189-4257	160K	NEW 189-4280	9M1	NEW 189-4436
51R	NEW 189-4233	3K3	175-0843	180K	175-0867	10M	NEW 189-4437
56R	175-0820						

1210 Case

1R	175-0878	27R	175-0897	680R	175-0916	18K	175-0934
1R1	NEW 189-4438	30R	NEW 189-4296	750R	NEW 189-4315	20K	NEW 189-4335
1R2	175-0879	33R	175-0898	820R	175-0917	22K	175-0935
1R3	NEW 189-4439	36R	NEW 189-4297	910R	NEW 189-4317	24K	NEW 189-4336
1R5	175-0880	39R	175-0899	1K	175-0918	27K	175-0936
1R6	NEW 189-4440	43R	NEW 189-4299	1K1	NEW 189-4318	30K	NEW 189-4337
1R8	175-0881	47R	175-0900	1K2	175-0919	33K	175-0937
2R	NEW 189-4441	51R	NEW 189-4300	1K3	NEW 189-4319	36K	NEW 189-4338
2R2	175-0882	56R	175-0901	1K5	175-0920	39K	175-0939
2R4	NEW 189-4442	62R	NEW 189-4301	1K6	NEW 189-4320	43K	NEW 189-4339
2R7	175-0883	68R	175-0903	1K8	175-0921	47K	175-0941
3R	NEW 189-4443	75R	NEW 189-4302	2K	NEW 189-4321	51K	NEW 189-4340
3R3	175-0885	82R	175-0904	2K2	175-0922	56K	175-0942
3R6	NEW 189-4445	91R	NEW 189-4303	2K4	NEW 189-4322	62K	NEW 189-4342
3R9	175-0886	100R	175-0905	2K7	175-0923	68K	175-0943
4R3	NEW 189-4446	110R	NEW 189-4305	3K	NEW 189-4323	75K	NEW 189-4343
4R7	175-0887	120R	175-0906	3K3	175-0924	82K	175-0944
5R1	NEW 189-4447	130R	NEW 189-4306	3K6	NEW 189-4324	91K	NEW 189-4344
5R6	175-0888	150R	175-0907	3K9	175-0925	100K	175-0945
6R2	NEW 189-4448	160R	NEW 189-4307	4K3	NEW 189-4325	110K	NEW 189-4345
6R8	175-0889	180R	175-0908	4K7	175-0927	120K	175-0946
7R5	NEW 189-4449	200R	NEW 189-4308	5K1	NEW 189-4326	130K	NEW 189-4346
8R2	175-0890	220R	175-0909	5K6	175-0928	150K	175-0947
9R1	NEW 189-4450	240R	NEW 189-4309	6K2	NEW 189-4327	160K	NEW 189-4347
10R	175-0891	270R	175-0910	6K8	175-0929	180K	175-0948
11R	NEW 189-4291	300R	NEW 189-4310	7K5	NEW 189-4329	200K	NEW 189-4348
12R	175-0892	330R	175-0911	8K2	175-0930	220K	175-0949
13R	NEW 189-4292	360R	NEW 189-4311	9K1	NEW 189-4331	240K	NEW 189-4349
15R	175-0893	390R	175-0912	10K	175-0931	270K	175-0950
16R	NEW 189-4293	430R	NEW 189-4312	11K	NEW 189-4332	300K	NEW 189-4350
18R	175-0894	470R	175-0913	12K	175-0932	330K	175-0952
20R	NEW 189-4294	510R	NEW 189-4313	13K	NEW 189-4333	360K	NEW 189-4351
22R	175-0895	560R	175-0915	15K	175-0933	390K	175-0953
24R	NEW 189-4295	620R	NEW 189-4314	16K	NEW 189-4334	430K	NEW 189-4352

Anti-Surge & Pulse Withstanding - continued

ERJP Anti Surge Series - continued

470K	175-0954	620K	NEW 189-4355	750K	NEW 189-4356	910K	NEW 189-4357
510K	NEW 189-4354	680K	175-0956	820K	175-0957	1M	175-0958
560K	175-0955						

544815

Resistance		Price Each 25+	100+	500+	1K+	5K+
0603 Case Size						
All Values ●	**189-4358●**					
0805 Case Size						
All Values ●	**189-4371●**					
1206 Case Size						
All Values ●	**189-4234●**					
1210 Case Size						
All Values ●	**189-4297●**					

ERJT Series

Anti Pulse Resistors

- High pulse characteristics achieved by the optimised trimming specifications
- High reliability
- Suitable for both reflow and flow soldering
- AECQ-200 Automotive Approved

	0805 Case Size	1206 Case Size	1210 Case Size
Power rating @ 70°C	250mW	330mW	500mW
Voltage rating	150V	200V	200V
Resistance tolerance	± 5%	± 5%	± 5%
Temperature coefficient	-100ppm/°C to +600ppm/°C	-100ppm/°C to +600ppm/°C	-100ppm/°C to +600ppm/°C

ERJT06 - 0805 Case Size

Stocked in the following OHMIC values:

1R = **161-8236**	18R = **157-7332**	330R = **157-7353**	4K7 = **157-7368**	68K = **157-7382**
1R2 = **161-8238**	22R = **157-7339**	390R = **157-7361**	5K6 = **157-7375**	100K = **161-8243**
1R5 = **157-7325**	27R = **157-7345**	470R = **157-7367**	6K8 = **157-7381**	120K = **157-7324**
1R8 = **157-7331**	39R = **157-7358**	560R = **157-7374**	8K2 = **157-7388**	150K = **157-7330**
2R2 = **157-7338**	47R = **157-7366**	680R = **157-7380**	10K = **161-8242**	180K = **157-7337**
2R7 = **157-7344**	56R = **157-7373**	820R = **157-7387**	12K = **157-7322**	220K = **157-7343**
3R3 = **157-7351**	68R = **157-7379**	1K = **161-8241**	15K = **157-7329**	270K = **157-7350**
3R9 = **157-7357**	82R = **157-7386**	1K2 = **157-7321**	18K = **157-7336**	330K = **157-7356**
4R7 = **157-7365**	100R = **161-8240**	1K5 = **157-7328**	22K = **157-7342**	390K = **157-7364**
5R6 = **157-7371**	120R = **157-7320**	1K8 = **157-7334**	27K = **157-7349**	470K = **157-7370**
6R8 = **157-7378**	150R = **157-7327**	2K2 = **157-7341**	33K = **157-7355**	560K = **157-7377**
8R2 = **157-7385**	180R = **157-7333**	2K7 = **157-7348**	39K = **157-7363**	680K = **157-7383**
10R = **161-8239**	220R = **157-7340**	3K3 = **157-7354**	47K = **157-7369**	820K = **157-7390**
12R = **157-7319**	270R = **157-7346**	3K9 = **157-7362**	56K = **157-7376**	1M = **161-8244**
15R = **157-7326**				

Order Code	Price Each 10+	50+	100+	1K+	5K+
All Values ●					

ERJT08 - 1206 Case Size

Stocked in the following OHMIC values:

1R = **157-7391**	18R = **157-7415**	330R = **157-7437**	5K6 = **157-7459**	82K = **157-7473**
1R2 = **157-7399**	22R = **157-7421**	390R = **157-7445**	6K8 = **157-7466**	100K = **157-7397**
1R5 = **157-7407**	27R = **157-7430**	470R = **157-7452**	8K2 = **157-7472**	120K = **157-7406**
1R8 = **157-7413**	33R = **157-7436**	560R = **157-7458**	10K = **157-7395**	150K = **157-7412**
2R2 = **157-7420**	39R = **157-7444**	680R = **157-7465**	12K = **157-7405**	180K = **157-7419**
2R7 = **157-7429**	47R = **157-7450**	820R = **157-7471**	15K = **157-7411**	220K = **157-7428**
3R3 = **157-7435**	56R = **157-7457**	1K = **157-7394**	18K = **157-7418**	270K = **157-7434**
3R9 = **157-7443**	68R = **157-7464**	1K2 = **157-7404**	22K = **157-7427**	330K = **157-7442**
4R7 = **157-7449**	82R = **157-7470**	1K5 = **157-7410**	27K = **157-7433**	390K = **157-7448**
5R6 = **157-7456**	100R = **157-7393**	1K8 = **157-7417**	33K = **157-7441**	470K = **157-7455**
6R8 = **157-7462**	120R = **157-7401**	2K2 = **157-7424**	39K = **157-7447**	560K = **157-7461**
8R2 = **157-7469**	150R = **157-7409**	2K7 = **157-7432**	47K = **157-7454**	680K = **157-7468**
10R = **157-7392**	180R = **157-7416**	3K3 = **157-7439**	56K = **157-7460**	820K = **157-7474**
12R = **157-7400**	220R = **157-7422**	3K9 = **157-7446**	68K = **157-7467**	1M = **157-7398**
15R = **157-7408**	270R = **157-7431**	4K7 = **157-7453**		

Order Code	Price Each 10+	50+	100+	1K+	5K+
All Values ●					

ERJT14 - 1210 Case Size

Stocked in the following OHMIC values:

1R = **157-7476**	1R8 = **157-7479**	3R3 = **157-7482**	5R6 = **157-7485**	8R2 = **157-7488**
1R2 = **157-7477**	2R2 = **157-7480**	3R9 = **157-7483**	6R8 = **157-7486**	10R = **157-7489**
1R5 = **157-7478**	2R7 = **157-7481**	4R7 = **157-7484**		

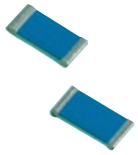
527189

Order Code	Price Each 10+	50+	100+	1K+	5K+
All Values ●					

RL **FREE Re-reeling service.** Only buy what you need and improve assembly efficiency. For more information visit **local website**

PWC Series

0.125 Watt, 0.33 Watt, 0.75 Watt & 1.5 Watt



- Thick film technology pulse withstanding chip resistors
- 0805, 1206, 2010 and 2512 case sizes
- Nickel barrier layer
- Applications include pulse protection in telecom and power supply circuits

	0805 Case Size	1206 Case Size	2010 Case Size	2512 Case Size
Power rating @ 70°C	125mW	330mW	750mW	1.5W
Resistance tolerance (xxx-xxJ)	± 5%	± 5%	± 5%	± 5%
Resistance tolerance (xxx-xxF)	± 1%	± 1%	± 1%	± 1%
Temperature coefficient	±100ppm/°C	±100ppm/°C	±100ppm/°C	±100ppm/°C

Stocked in the following OHMIC Values:

0805 Case Size - ±1%

10R = **173-8404**	68R = **173-8412**	470R = **173-8417**	3K3 = **173-8423**	22K = **173-8428**
15R = **173-8405**	100R = **173-8413**	680R = **173-8418**	4K7 = **173-8424**	33K = **173-8429**
22R = **173-8406**	150R = **173-8414**	1K = **173-8419**	6K8 = **173-8425**	47K = **173-8430**
33R = **173-8407**	220R = **173-8415**	1K5 = **173-8420**	10K = **173-8426**	68K = **173-8431**
47R = **173-8408**	330R = **173-8416**	2K2 = **173-8421**	15K = **173-8427**	100K = **173-8432**

0805 Case Size - ±5%

10R = **111-2212**	68R = **111-2217**	470R = **111-2222**	3K3 = **111-2228**	22K = **111-2233**
15R = **111-2213**	100R = **111-2218**	680R = **111-2224**	4K7 = **111-2229**	33K = **111-2234**
22R = **111-2214**	150R = **111-2219**	1K = **111-2225**	6K8 = **111-2230**	47K = **111-2236**
33R = **111-2215**	220R = **111-2220**	1K5 = **111-2226**	10K = **111-2231**	68K = **111-2237**
47R = **111-2216**	330R = **111-2221**	2K2 = **111-2227**	15K = **111-2232**	100K = **111-2238**

1206 Case Size - ±1%

10R = **173-8433**	68R = **173-8439**	470R = **173-8444**	3K3 = **173-8450**	22K = **173-8455**
15R = **173-8435**	100R = **173-8440**	680R = **173-8445**	4K7 = **173-8451**	33K = **173-8456**
22R = **173-8436**	150R = **173-8441**	1K = **173-8447**	6K8 = **173-8452**	47K = **173-8457**
33R = **173-8437**	220R = **173-8442**	1K5 = **173-8448**	10K = **173-8453**	68K = **173-8459**
47R = **173-8438**	330R = **173-8443**	2K2 = **173-8449**	15K = **173-8454**	100K = **173-8461**

1206 Case Size - ±5%

10R = **111-2239**	100R = **111-2245**	680R = **111-2252**	4K7 = **111-2257**	22K = **111-2263**
15R = **111-2240**	150R = **111-2248**	1K = **111-2253**	6K8 = **111-2258**	47K = **111-2265**
22R = **111-2241**	220R = **111-2249**	1K5 = **111-2254**	10K = **111-2261**	100K = **111-2267**
33R = **111-2242**	470R = **111-2251**	3K3 = **111-2256**		

2010 Case Size - ±1%

10R = **173-8462**	68R = **173-8467**	470R = **173-8473**	3K3 = **173-8478**	22K = **173-8484**
15R = **173-8463**	100R = **173-8468**	680R = **173-8474**	4K7 = **173-8479**	33K = **173-8485**
22R = **173-8464**	150R = **173-8469**	1K = **173-8475**	6K8 = **173-8480**	47K = **173-8486**
33R = **173-8465**	220R = **173-8470**	1K5 = **173-8476**	10K = **173-8481**	68K = **173-8487**
47R = **173-8466**	330R = **173-8472**	2K2 = **173-8477**	15K = **173-8482**	100K = **173-8488**

2010 Case Size - ±5%

10R = **110-0081**	68R = **110-0086**	470R = **110-0092**	3K3 = **110-0097**	22K = **110-0104**
15R = **110-0082**	100R = **110-0088**	680R = **110-0093**	4K7 = **110-0098**	33K = **110-0106**
22R = **110-0083**	150R = **110-0089**	1K = **110-0094**	6K8 = **110-0100**	47K = **110-0107**
33R = **110-0084**	220R = **110-0090**	1K5 = **110-0095**	10K = **110-0101**	68K = **110-0108**
47R = **110-0085**	330R = **110-0091**	2K2 = **110-0096**	15K = **110-0102**	100K = **110-0109**

2512 Case Size - ±1%

10R = **173-8489**	68R = **173-8494**	470R = **173-8500**	3K3 = **173-8506**	22K = **173-8511**
15R = **173-8490**	100R = **173-8496**	680R = **173-8502**	4K7 = **173-8507**	33K = **173-8512**
22R = **173-8491**	150R = **173-8497**	1K = **173-8503**	6K8 = **173-8508**	47K = **173-8514**
33R = **173-8492**	220R = **173-8498**	1K5 = **173-8504**	10K = **173-8509**	68K = **173-8515**
47R = **173-8493**	330R = **173-8499**	2K2 = **173-8505**	15K = **173-8510**	100K = **173-8516**

2512 Case Size - ±5%

10R = **110-0110**	68R = **110-0115**	470R = **110-0121**	3K3 = **110-0126**	33K = **110-0133**
15R = **110-0111**	100R = **110-0116**	680R = **110-0122**	4K7 = **110-0127**	47K = **110-0134**
22R = **110-0112**	150R = **110-0118**	1K = **110-0123**	6K8 = **110-0128**	68K = **110-0135**
33R = **110-0113**	220R = **110-0119**	1K5 = **110-0124**	10K = **110-0131**	100K = **110-0136**
47R = **110-0114**	330R = **110-0120**	2K2 = **110-0125**	22K = **110-0132**	

234807

Order Code	Price Each 5+	50+	100+	500+	1K+
0805 Case Size					
All Values - ±1% ● RL					
All Values - ±5% ● RL					
1210 Case Size					
All Values - ±1% ● RL					
All Values - ±5% ● RL					
2010 Case Size					
All Values - ±1% ● RL					
All Values - ±5% ● RL					
2512 Case Size					
All Values - ±1% ● RL					
All Values - ±5% ● RL					

PulsEaters© Ceramic Composition Resistors

- High surge energy
- Non-inductive
- Small size
- Applications include motor drives, power supplies, UPS, power conversion, in-rush current limiting

	Temperature Operating Range	Tolerance	Body Diameter	Length	Lead Pitch	Power Rating
AW Series	-55°C to +150°C	± 10%	13mm	20mm	17.5mm	2.5W
AX Series	-55°C to +150°C	± 10%	21mm	15mm	12.5mm	3.5W
AY Series	-55°C to +150°C	± 10%	21mm	25mm	22.5mm	4.5W
AZ Series	-55°C to +150°C	± 10%	26mm	30mm	27mm	5.5W

AW Series

Stocked in the following OHMIC Values:

RoHS ● Compliant ▲ Non-compliant

4R7 = **155-0679** 15R = **155-0681** 27R = **155-0683** 56R = **155-0689** 68R = **155-0691**
10R = **155-0680** 22R = **155-0682** 47R = **155-0686**

Order Code	Price Each 1+	10+	25+	50+	250+
All Values ●					

AX Series

Stocked in the following OHMIC Values:

3R3 = **155-0694** 10R = **155-0695** 22R = **155-0696** 47R = **155-0697**

Order Code	Price Each 1+	10+	25+	50+	250+
All Values ●					

AY Series

Stocked in the following OHMIC Values:

4R7 = **155-0700** 22R = **155-0702** 33R = **155-0703** 47R = **155-0704** 100R = **155-0705**
10R = **155-0701**

Order Code	Price Each 1+	10+	25+	50+	250+
All Values ●					

AZ Series

Stocked in the following OHMIC Values:

22R = **155-0707** 100R = **155-0708** 1K = **155-0709**

501294

Order Code	Price Each 1+	10+	25+	50+
All Values ●				

PulsEaters© Ceramic Composition Resistors

OHMITE

- High surge energy
- Non-inductive and small size
- Applications include motor drives, power supplies, UPS, power conversion, in-rush current limiting

	Power rating	Length	Lead Pitch	Body Diameter
AW Series	2.5W	20mm	17.5mm	13mm
AX Series	3.5W	15mm	12.5mm	21mm
AY Series	4.5W	25mm	22.5mm	21mm
AZ Series	5.5W	30mm	27mm	26mm

Operating Temperature -55°C to +150°C Tolerance ± 10%

AW Series

Stocked in the following OHMIC values

4R7 = **155-0679** 15R = **155-0681** 47R = **155-0686** 56R = **155-0689** 68R = **155-0691**
10R = **155-0680** 27R = **155-0683**

Order Code	Price Each 1+	10+	25+	50+	250+
All Values●					

AX Series

Stocked in the following OHMIC values

1R = **155-0693** 3R3 = **155-0694** 10R = **155-0695** 22R = **155-0696** 47R = **155-0697**

Order Code	Price Each 1+	10+	25+	50+	250+
All Values●					

AY Series

Stocked in the following OHMIC values

4R7 = **155-0700** 22R = **155-0702** 33R = **155-0703** 47R = **155-0704** 100R = **155-0705**
10R = **155-0701**

Order Code	Price Each 1+	10+	25+	50+	250+
All Values●					

AZ Series

Stocked in the following OHMIC values

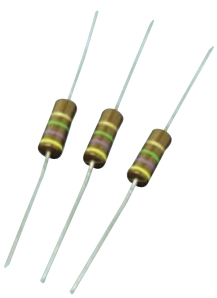
22R = **155-0707** 100R = **155-0708** 1K = **155-0709**

628720

Order Code	Price Each 1+	10+	25+	50+	250+
All Values●					

CBT25 Series – 0.25 Watt ±5%

Tyco Electronics



- Axial solid carbon composition resistors
- 0.25 Watt power rating
- Excellent pulse withstand capabilities, whilst remaining very stable

L=6.3 max, Dia.=2.4 max,
Lead length=27.0, Lead dia.=0.6

Power rating @ 70°C 250mW Maximum overload voltage 400V
Temperature coefficient -400 to +700ppm/°C Operating temperature -55°C to + 125°C
Voltage rating 250V

Stocked in the following OHMIC Values:

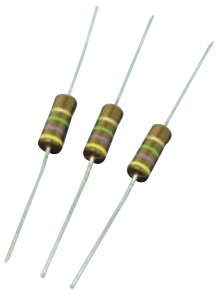
1R = **126-5053**	33R = **126-5062**	680R = **126-5071**	15K = **126-5080**	330K = **126-5089**
1R5 = **126-5054**	47R = **126-5063**	1K = **126-5072**	22K = **126-5081**	470K = **126-5091**
2R2 = **126-5055**	68R = **126-5065**	1K5 = **126-5073**	33K = **126-5082**	680K = **126-5092**
3R3 = **126-5056**	100R = **126-5066**	2K2 = **126-5074**	47K = **126-5083**	1M = **126-5093**
4R7 = **126-5057**	150R = **126-5067**	3K3 = **126-5075**	68K = **126-5084**	1M5 = **126-5094**
6R8 = **126-5058**	220R = **126-5068**	4K7 = **126-5077**	100K = **126-5085**	2M2 = **126-5095**
10R = **126-5059**	330R = **126-5069**	6K8 = **126-5078**	150K = **126-5086**	3M3 = **126-5096**
15R = **126-5060**	470R = **126-5070**	10K = **126-5079**	220K = **126-5087**	4M7 = **126-5097**
22R = **126-5061**				

451298

Order Code	Price Each 5+	25+	50+	100+	500+
All values●					

CBT50 Series – 0.5 Watt ±5%

Tyco Electronics



- Axial solid carbon composition resistors
- 0.5 Watt power rating
- Excellent pulse withstand capabilities, whilst remaining very stable

L=6.3 max, Dia.=2.4 max,
Lead length=27.0, Lead dia.=0.6

Power rating @ 70°C 500mW Maximum overload voltage 700V
Temperature coefficient -200 to +600ppm/°C Operating temperature -55°C to + 125°C
Voltage rating 350V

Stocked in the following OHMIC Values:

1R = **126-5098**	33R = **126-5108**	1K = **126-5117**	33K = **126-5128**	1M = **126-5138**
1R5 = **126-5099**	47R = **126-5109**	1K5 = **126-5119**	47K = **126-5129**	1M5 = **126-5139**
2R2 = **126-5100**	68R = **126-5110**	2K2 = **126-5121**	68K = **126-5130**	2M2 = **126-5140**
3R3 = **126-5101**	100R = **126-5111**	3K3 = **126-5122**	100K = **126-5132**	3M3 = **126-5141**
4R7 = **126-5102**	150R = **126-5112**	4K7 = **126-5123**	150K = **126-5133**	4M7 = **126-5142**
6R8 = **126-5103**	220R = **126-5113**	6K8 = **126-5124**	220K = **126-5134**	6M8 = **126-5144**
10R = **126-5104**	330R = **126-5114**	10K = **126-5125**	330K = **126-5135**	10M = **126-5145**
15R = **126-5105**	470R = **126-5115**	15K = **126-5126**	470K = **126-5136**	15M = **126-5146**
22R = **126-5107**	680R = **126-5116**	22K = **126-5127**	680K = **126-5137**	22M = **126-5147**

451327

5					
Order Multiple=5					
Order Code	Price Each 5+	25+	50+	100+	500+
All values●					

EP Series, Regular and Small Sizes

Tyco Electronics

NEW

Features
- Power up to 10W in Small Size
- Many Size / Power Options
- Specially Designed and
- Tested for Surge Immunity
- Flame Resistant Coating
- 5% Tolerance on all parts
- Rated to 500V

Robustly manufactured with high quality materials this resistor offers flame proof coating, and is designed and tested to withstand power surges of up to 12KV.

Case size (see part number)	Body Diameter	External Length / Height	Lead Diameter	Lead Length	Power Rating
EP1W	5mm	12mm	1mm	25mm	1W
EP3W	6.5mm	17.5mm	3mm	28mm	3W
EP5W	8.5mm	25mm	5mm	38mm	5W
EP7W	8.5mm	30mm	7mm	38mm	7W
EP9W	8.5mm	53mm	9mm	38mm	9W
EP1WS	3.5mm	10mm	1mm	28mm	1W
EP3WS	5.5mm	16mm	3mm	28mm	3W
EP5WS	6.5mm	17.5mm	5mm	28mm	5W
EP7WS	8.5mm	25mm	7mm	38mm	7W
EP9WS	8.5mm	40mm	9mm	38mm	9W

10R	EP1W10RJ	150R	EP3W150RJ	1K	EP5W1K0J
15R	EP1W15RJ	220R	EP3W220RJ	1K5	EP5W1K5J
22R	EP1W22RJ	330R	EP3W330RJ	2K2	EP5W2K2J
33R	EP1W33RJ	470R	EP3W470RJ	3K3	EP5W3K3J
47R	EP1W47RJ	680R	EP3W680RJ	4K7	EP5W4K7J
68R	EP1W68RJ	1K	EP3W1K0J	10R	EP7W10RJ
100R	EP1W100RJ	1K5	EP3W1K5J	15R	EP7W15RJ
150R	EP1W150RJ	2K2	EP3W2K2J	22R	EP7W22RJ
220R	EP1W220RJ	10R	EP5W10RJ	33R	EP7W33RJ
330R	EP1W330RJ	15R	EP5W15RJ	47R	EP7W47RJ
470R	EP1W470RJ	22R	EP5W22RJ	68R	EP7W68RJ
680R	EP1W680RJ	33R	EP5W33RJ	100R	EP7W100RJ
1K	EP1W1K0J	47R	EP5W47RJ	150R	EP7W150RJ
10R	EP3W10RJ	68R	EP5W68RJ	220R	EP7W220RJ
15R	EP3W15RJ	100R	EP5W100RJ	330R	EP7W330RJ
22R	EP3W22RJ	150R	EP5W150RJ	470R	EP7W470RJ
33R	EP3W33RJ	220R	EP5W220RJ	680R	EP7W680RJ
47R	EP3W47RJ	330R	EP5W330RJ	1K	EP7W1K0J
68R	EP3W68RJ	470R	EP5W470RJ	1K5	EP7W1K5J
100R	EP3W100RJ	680R	EP5W680RJ	2K2	EP7W2K2J

EP Series, Regular and Small Sizes - continued

3K3	EP7W3K3J	15R	EP3WS15RJ	33R	EP7WS33RJ
4K7	EP7W4K7J	22R	EP3WS22RJ	47R	EP7WS47RJ
10R	EP9W10RJ	33R	EP3WS33RJ	68R	EP7WS68RJ
15R	EP9W15RJ	47R	EP3WS47RJ	100R	EP7WS100RJ
22R	EP9W22RJ	68R	EP3WS68RJ	150R	EP7WS150RJ
33R	EP9W33RJ	100R	EP3WS100RJ	220R	EP7WS220RJ
47R	EP9W47RJ	150R	EP3WS150RJ	330R	EP7WS330RJ
68R	EP9W68RJ	220R	EP3WS220RJ	470R	EP7WS470RJ
100R	EP9W100RJ	330R	EP3WS330RJ	680R	EP7WS680RJ
150R	EP9W150RJ	470R	EP3WS470RJ	1K	EP7WS1K0J
220R	EP9W220RJ	680R	EP3WS680RJ	1K5	EP7WS1K5J
330R	EP9W330RJ	1K	EP3WS1K0J	2K2	EP7WS2K2J
470R	EP9W470RJ	1K5	EP3WS1K5J	3K3	EP7WS3K3J
680R	EP9W680RJ	10R	EP5WS10RJ	4K7	EP7WS4K7J
1K	EP9W1K0J	15R	EP5WS15RJ	10R	EP9WS10RJ
1K5	EP9W1K5J	22R	EP5WS22RJ	15R	EP9WS15RJ
2K2	EP9W2K2J	33R	EP5WS33RJ	22R	EP9WS22RJ
3K3	EP9W3K3J	47R	EP5WS47RJ	33R	EP9WS33RJ
4K7	EP9W4K7J	68R	EP5WS68RJ	47R	EP9WS47RJ
6K8	EP9W6K8J	100R	EP5WS100RJ	68R	EP9WS68RJ
10K	EP9W10KJ	150R	EP5WS150RJ	100R	EP9WS100RJ
15K	EP9W15KJ	220R	EP5WS220RJ	150R	EP9WS150RJ
10R	EP1WS10RJ	330R	EP5WS330RJ	220R	EP9WS220RJ
15R	EP1WS15RJ	470R	EP5WS470RJ	330R	EP9WS330RJ
22R	EP1WS22RJ	680R	EP5WS680RJ	470R	EP9WS470RJ
33R	EP1WS33RJ	1K	EP5WS1K0J	680R	EP9WS680RJ
47R	EP1WS47RJ	1K5	EP5WS1K5J	1K	EP9WS1K0J
68R	EP1WS68RJ	2K2	EP5WS2K2J	1K5	EP9WS1K5J
100R	EP1WS100RJ	3K3	EP5WS3K3J	2K2	EP9WS2K2J
150R	EP1WS150RJ	4K7	EP5WS4K7J	3K3	EP9WS3K3J
220R	EP1WS220RJ	10R	EP7WS10RJ	4K7	EP9WS4K7J
330R	EP1WS330RJ	15R	EP7WS15RJ	6K8	EP9WS6K8J
470R	EP1WS470RJ	22R	EP7WS22RJ	10K	EP9WS10KJ
10R	EP3WS10RJ				

660313

Mftrs. List No.	Order Code	Price Each 20+	100+	250+	500+	1K+
EP1W10RJ	2117944					
EP1W15RJ	2117945					
EP1W22RJ	2117946					
EP1W33RJ	2117947					
EP1W47RJ	2117948					
EP1W68RJ	2117949					
EP1W100RJ	2117950					
EP1W150RJ	2117951					
EP1W220RJ	2117953					
EP1W330RJ	2117954					
EP1W470RJ	2117955					
EP1W680RJ	2117956					
EP1W1K0J	2117957					
EP3W10RJ	2117958					
EP3W15RJ	2117959					
EP3W22RJ	2117960					
EP3W33RJ	2117961					
EP3W47RJ	2117962					
EP3W68RJ	2117963					
EP3W100RJ	2117965					
EP3W150RJ	2117966					
EP3W220RJ	2117967					
EP3W330RJ	2117968					
EP3W470RJ	2117969					
EP3W680RJ	2117970					
EP3W1K0J	2117971					
EP3W1K5J	2117972					
EP3W2K2J	2117973					
EP5W10RJ	2117974					
EP5W15RJ	2117975					
EP5W22RJ	2117977					
EP5W33RJ	2117978					
EP5W47RJ	2117979					
EP5W68RJ	2117980					
EP5W100RJ	2117981					
EP5W150RJ	2117982					
EP5W220RJ	2117983					
EP5W330RJ	2117984					
EP5W470RJ	2117985					
EP5W680RJ	2117986					
EP5W1K0J	2117987					
EP5W1K5J	2117989					
EP5W2K2J	2117991					
EP5W3K3J	2117992					
EP5W4K7J	2117993					
EP7W10RJ	2117994					
EP7W15RJ	2117995					
EP7W22RJ	2117996					
EP7W33RJ	2117997					
EP7W47RJ	2117998					

Mftrs. List No.	Order Code	Price Each 20+	100+	250+	500+	1K+
EP7W68RJ	2117999					
EP7W100RJ	2118000					
EP7W150RJ	2118001					
EP7W220RJ	2118003					
EP7W330RJ	2118004					
EP7W470RJ	2118005					
EP7W680RJ	2118006					
EP7W1K0J	2118007					
EP7W1K5J	2118008					
EP7W2K2J	2118009					
EP7W3K3J	2118010					
EP7W4K7J	2118011					
EP9W10RJ	2118012					
EP9W15RJ	2118013					
EP9W22RJ	2118015					
EP9W33RJ	2118016					
EP9W47RJ	2118017					
EP9W68RJ	2118018					
EP9W100RJ	2118019					
EP9W150RJ	2118020					
EP9W220RJ	2118021					
EP9W330RJ	2118022					
EP9W470RJ	2118023					
EP9W680RJ	2118024					
EP9W1K0J	2118025					
EP9W1K5J	2118027					
EP9W2K2J	2118028					
EP9W3K3J	2118029					
EP9W4K7J	2118030					
EP9W6K8J	2118031					
EP9W10KJ	2118032					
EP9W15KJ	2118033					
EP1WS10RJ	2118034					
EP1WS15RJ	2118035					
EP1WS22RJ	2118036					
EP1WS33RJ	2118037					
EP1WS47RJ	2118039					
EP1WS68RJ	2118041					
EP1WS100RJ	2118042					
EP1WS150RJ	2118043					
EP1WS220RJ	2118044					
EP1WS330RJ	2118045					
EP1WS470RJ	2118046					
EP3WS10RJ	2118047					
EP3WS15RJ	2118048					
EP3WS22RJ	2118049					
EP3WS33RJ	2118050					
EP3WS47RJ	2118052					
EP3WS68RJ	2118053					
EP3WS100RJ	2118054					
EP3WS150RJ	2118055					
EP3WS220RJ	2118056					
EP3WS330RJ	2118057					
EP3WS470RJ	2118058					
EP3WS680RJ	2118059					
EP3WS1K0J	2118060					
EP3WS1K5J	2118061					
EP5WS10RJ	2118062					
EP5WS15RJ	2118064					
EP5WS22RJ	2118065					
EP5WS33RJ	2118066					
EP5WS47RJ	2118067					
EP5WS68RJ	2118068					
EP5WS100RJ	2118069					
EP5WS150RJ	2118070					
EP5WS220RJ	2118071					
EP5WS330RJ	2118072					
EP5WS470RJ	2118073					
EP5WS680RJ	2118074					
EP5WS1K0J	2118076					
EP5WS1K5J	2118077					
EP5WS2K2J	2118078					
EP5WS3K3J	2118079					
EP5WS4K7J	2118080					
EP7WS10RJ	2118081					
EP7WS15RJ	2118082					
EP7WS22RJ	2118083					
EP7WS33RJ	2118084					
EP7WS47RJ	2118085					
EP7WS68RJ	2118086					
EP7WS100RJ	2118088					
EP7WS150RJ	2118089					

Mftrs. List No.	Order Code	Price Each 20+	100+	250+	500+	1K+
EP7WS220RJ	2118090					
EP7WS330RJ	2118091					
EP7WS470RJ	2118092					
EP7WS680RJ	2118093					
EP7WS1K0J	2118094					
EP7WS1K5J	2118095					
EP7WS2K2J	2118096					
EP7WS3K3J	2118097					
EP7WS4K7J	2118098					
EP9WS10RJ	2118100					
EP9WS15RJ	2118101					
EP9WS22RJ	2118102					
EP9WS33RJ	2118103					
EP9WS47RJ	2118104					
EP9WS68RJ	2118106					
EP9WS100RJ	2118107					
EP9WS150RJ	2118108					
EP9WS220RJ	2118109					
EP9WS330RJ	2118110					
EP9WS470RJ	2118111					
EP9WS680RJ	2118112					
EP9WS1K0J	2118113					
EP9WS1K5J	2118114					
EP9WS2K2J	2118115					
EP9WS3K3J	2118116					
EP9WS4K7J	2118118					
EP9WS6K8J	2118119					
EP9WS10KJ	2118120					

Anti-Arc Resistors – 1 Watt

NEW

YAGEO

AAR Series

- Hot moulded Anti-Arc
- High pulse voltage and energy capability
- Non-inductive

L=9.5, Dia=5.5, Lead length=26, Lead dia=0.6

Power Rating	Operating Temperature	Temperature Coefficient	Tolerance
1W	-55°C to +125°C	± 300ppm/°C	± 5%

Stocked in the following OHMIC Values:

0R1 = **185-2529** 1R = **185-2533** 10R = **185-2536** 47R = **185-2538**
0R22 = **185-2531** 2R2 = **185-2534** 22R = **185-2537** 100R = **185-2539**
0R47 = **185-2532** 4R7 = **185-2535**

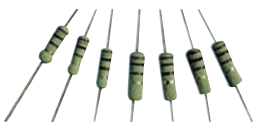
618893

Order Code	Price Each 5+	50+	500+	1K+	2K+
All Values ●					

CCR Series

Tyco Electronics

Ceramic Composition Resistors



- Designed for Pulse Withstand
- Solid Ceramic Composition
- **Replace Carbon Composition**

	CCR1	CCR2
Power rating @ 70°C	1W	2W
Operating temperature	-40°C to +200°C	-40°C to +200°C
Temp. Coefficient <100R	-900ppm/°C ± 300ppm/°C	-900ppm/°C ± 300ppm/°C
Temp. Coefficient >100R	-900ppm/°C ± 300ppm/°C	-900ppm/°C ± 300ppm/°C
Voltage, limiting element	300V	400V
Voltage, withstand	500V	800V
Body Dimensions (HxW)	5.5 x 16.5mm	7 x 19mm
Lead Dimensions (LxDia)	38 x 0.8mm	38 x 0.8mm

CCR1

Stocked in the following OHMIC values:

10R = **173-8717** 33R = **173-8722** 330R = **173-8725** 4K7 = **173-8728** 47K = **173-8730**
15R = **173-8718** 47R = **173-8723** 470R = **173-8726** 10K = **173-8729** 100K = **173-8731**
22R = **173-8721** 100R = **173-8724** 1K = **173-8727**

Order Code	Price Each 5+	25+	100+	500+	1K+
All Values ●					

CCR2

Stocked in the following OHMIC values:

3R3 = **173-8733** 10R = **173-8739** 33R = **173-8745** 220R = **173-8750** 15K = **173-8755**
3R9 = **173-8734** 15R = **173-8740** 39R = **173-8746** 470R = **173-8751** 47K = **173-8757**
4R7 = **173-8735** 18R = **173-8741** 47R = **173-8747** 1K = **173-8752** 100K = **173-8758**
5R6 = **173-8736** 22R = **173-8742** 56R = **173-8748** 4K7 = **173-8753** 120K = **173-8759**
6R8 = **173-8737** 27R = **173-8743** 100R = **173-8749** 10K = **173-8754** 220K = **173-8760**
8R2 = **173-8738**

541609

Order Code	Price Each 5+	25+	100+	500+	1K+
All Values ●					

High Voltage

MCHV05 and MCHV06 Series ±5%

SMD

multicomp

High Voltage

- Superior voltage performance over commercial range chips

	0805	1206
Power rating	100mW	125mW
Operating temperature	-55°C to +155°C	-55°C to +155°C
Temperature coefficient	± 200ppm/°C	± 200ppm/°C
Max. working voltage	300V	400V
Max. overload voltage	800V	1000V
Resistance tolerance	± 5%	± 5%

0805 Case Size

Stocked in the following OHMIC Values

100K = **157-6128** 270K = **157-6140** 680K = **157-6152** 1M8 = **157-6163** 4M3 = **157-6174**
110K = **157-6129** 300K = **157-6141** 750K = **157-6153** 2M = **157-6164** 4M7 = **157-6175**
120K = **157-6130** 330K = **157-6142** 820K = **157-6154** 2M2 = **157-6165** 5M1 = **157-6176**
130K = **157-6131** 360K = **157-6143** 910K = **157-6155** 2M4 = **157-6166** 5M6 = **157-6177**
150K = **157-6132** 390K = **157-6144** 1M = **157-6156** 2M7 = **157-6167** 6M2 = **157-6178**
160K = **157-6134** 430K = **157-6145** 1M1 = **157-6157** 3M = **157-6169** 6M8 = **157-6179**
180K = **157-6135** 470K = **157-6146** 1M2 = **157-6158** 3M3 = **157-6170** 7M5 = **157-6180**
200K = **157-6137** 510K = **157-6147** 1M3 = **157-6159** 3M6 = **157-6171** 8M2 = **157-6181**
220K = **157-6138** 560K = **157-6149** 1M5 = **157-6160** 3M9 = **157-6172** 9M1 = **157-6182**
240K = **157-6139** 620K = **157-6151** 1M6 = **157-6162**

	Order Code	Price Each 10+	50+	100+	500+	1K+
0805 Case Size	All values					

1206 Case Size

Stocked in the following OHMIC Values

100K = **157-6183** 270K = **157-6194** 680K = **157-6206** 1M8 = **157-6218** 4M3 = **157-6230**
110K = **157-6184** 300K = **157-6195** 750K = **157-6207** 2M = **157-6219** 4M7 = **157-6233**
120K = **157-6186** 330K = **157-6196** 820K = **157-6209** 2M2 = **157-6220** 5M1 = **157-6236**
130K = **157-6187** 360K = **157-6198** 910K = **157-6210** 2M4 = **157-6221** 5M6 = **157-6238**
150K = **157-6188** 390K = **157-6199** 1M = **157-6211** 2M7 = **157-6222** 6M2 = **157-6241**
160K = **157-6189** 430K = **157-6200** 1M1 = **157-6212** 3M = **157-6223** 6M8 = **157-6243**
180K = **157-6190** 470K = **157-6201** 1M2 = **157-6213** 3M3 = **157-6224** 7M5 = **157-6246**
200K = **157-6191** 510K = **157-6202** 1M3 = **157-6214** 3M6 = **157-6225** 8M2 = **157-6248**
220K = **157-6192** 560K = **157-6204** 1M5 = **157-6216** 3M9 = **157-6228** 9M1 = **157-6249**
240K = **157-6193** 620K = **157-6205** 1M6 = **157-6217**

508896

	Order Code	Price Each 10+	50+	100+	500+	1K+
1206 Case Size	All values					

LHVC Series – 0.125 Watt, 0.25 Watt and 0.5 Watt ±1%

TT electronics Welwyn Components

- Superior voltage performance over commercial range chips

SMD

Case Size	Voltage Rating (V)	Temperature Coefficient	Operating Temperature	Tolerance
0805	400V	± 200ppm/°C	-55°C to +155°C	± 1%
1206	500V	± 200ppm/°C	-55°C to +155°C	± 1%
2010	1600V	± 200ppm/°C	-55°C to +155°C	± 1%

0805 Case Size

Stocked in the following OHMIC Values:

100K = **150-6148** 1M = **150-6149** 2M = **150-6150** 3M = **150-6151** 10M = **150-6153**

Order Code	Price Each 10+	50+	100+	500+	1K+
0805 Case Size ●					

1206 Case Size

Stocked in the following OHMIC Values:

100K = **150-6154** 1M = **150-6155** 2M = **150-6156** 3M = **150-6157** 10M = **150-6161**

Order Code	Price Each 10+	50+	100+	500+	1K+
1206 Case Size ●					

2010 Case Size

Stocked in the following OHMIC Values:

100K = **150-6162** 1M = **150-6163** 2M = **150-6164** 3M = **150-6165** 10M = **150-6167**

493824

Order Code	Price Each 10+	50+	100+	500+	1K+
2010 Case Size ●					

RV Series - 5%

- High voltage chip resistors
- 0805, 1206 and 2512 case sizes
- 0.125, 0.25 and 1 Watt power ratings

Case Size	Dimensions L	W	H	Maximum Working Voltage (V)	Temperature Coefficient	Tolerance
0805	2	1.25	0.5	400	200ppm/°C	±5%
1206	3.1	1.60	0.55	500	200ppm/°C	±5%
2512	6.35	3.10	0.55	500	200ppm/°C	±5%

0.125 Watt 5% (0805 case size)

Stocked in the following OHMIC values:

100K = **137-6988** 330K = **137-6991** 1M5 = **137-6995** 3M3 = **137-6997** 6M8 = **137-7001**
220K = **137-6990** 1M = **137-6994** 2M2 = **137-6996** 4M7 = **137-6999** 10M = **137-7002**

Order Code	Price Each 5+	50+	100+	500+	5K+
All Values					

0.25 Watt 5% (1206 case size)

Stocked in the following OHMIC values:

100K = **137-7003** 470K = **137-7007** 1M5 = **137-7010** 6M8 = **137-7015** 22M = **137-7018**
220K = **137-7005** 680K = **137-7008** 2M2 = **137-7011** 10M = **137-7016** 27M = **137-7019**
330K = **137-7006** 1M = **137-7009** 3M3 = **137-7013** 15M = **137-7017**

Order Code	Price Each 5+	50+	100+	500+	5K+
All Values					

1 Watt 5% (2512 case size)

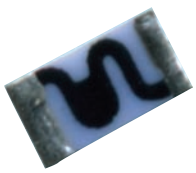
Stocked in the following OHMIC values:

4M7 = **137-7020** 6M8 = **137-7021** 10M = **137-7022** 15M = **137-7023**

475782

Order Code	Price Each 5+	50+	100+	500+	5K+
All Values					

CRHV Series – High Voltage Chip Resistors



- High voltage up to 3000 volts
- Flow solderable
- Top and wraparound terminations

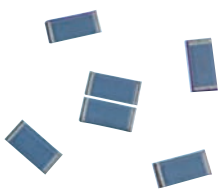
Power rating	300mW
Voltage Rating	1500V
Resistance tolerance	±1%
Temperature Coefficient	±100ppm/°C
Operating Temperature	-55°C to 150°C
Case Size	1206 x 0.063 x 0.125mm

423450

Case Size 1206

Resistance	Order Code	Price Each 1+	25+	100+	250+	500+
2M	**157-2802** RL					
5M	**157-2803** RL					
10M	**110-9055**					
20M	**157-2804** RL					
50M	**157-2806** RL					
100M	**110-9056**					
1G	**157-2807** RL					

HVC Series – 2512 Case Size 1 Watt ±1%



- High voltage chip resistors
- Robust thick film construction

Power rating @ 70°C	1W
Resistance tolerance	± 1%
Voltage rating	3kV
Operating temperature	-55°C to +155°C
Temperature coefficient	± 100ppm/°C

Stocked in the following OHMIC Values:

100K = **150-6199** 2M = **150-6202** 3M = **150-6203** 10M = **150-6205** 20M = **150-6206**
1M = **150-6200**

493821

Order Code	Price Each 5+	50+	100+	500+	1K+
All Values					

HVR25 Series

0.25 Watt ±5%

L=6.5 max, Dia=2.5 max
Lead length=26 nom, Lead dia=0.6

Offering high resistance, good stability and reliability at high voltage. Meets safety requirements of **IEC65**.

Supplied bandoliered on tape (box=1K pcs)

Power rating @ 70°C	250mW	Operating temperature	-55°C to +155°C
Voltage rating	1.6kV	Temperature coefficient	± 250ppm/°C

Stocked in the following OHMIC Values:

1M2 = **947-7152** 2M2 = **947-7187** 3M9 = **947-7217** 6M8 = **947-7241**
1M5 = **947-7160** 2M7 = **947-7195** 4M7 = **947-7225** 8M2 = **947-7250**
1M8 = **947-7179** 3M3 = **947-7209** 5M6 = **947-7233** 10M = **947-7144**

207179

Order Code	Price Each 10+	300+	3K+	10K+	30K+
All Values					

VR25 Series

0.25 Watt ±5%

NEW

L=6.5 max, Dia=2.5 max
Lead length=26 nom, Lead dia=0.6

Complete with metal glaze technology, offering high ohmic and voltage as well as small size and high pulse loading capability (up to 7 kV).

Power rating @ 70°C	250mW	Temperature coefficient	± 200ppm/K
Voltage rating	1.6kV		

0.25 Watt 1%

Stocked in the following OHMIC Values:

120K = **205-6504** 681K = **205-6507** 1M21 = **205-6509** 2M2 = **205-6511**
150K = **205-6505** 1M = **205-6508** 1M82 = **205-6510** 4M7 = **205-6512**
300K = **205-6506**

0.25 Watt 5%

Stocked in the following OHMIC Values:

150K = **205-6491** 270K = **205-6494** 470K = **205-6498** 2M2 = **205-6502**
180K = **205-6492** 330K = **205-6496** 1M = **205-6499** 6M8 = **205-6503**
220K = **205-6493** 390K = **205-6497** 1M2 = **205-6500**

659956

Order Code	Price Each 10+	100+	500+	1K+	5K+
1% All Values					
5% All Values					

High Voltage Metal Glaze Leaded Resistors

VR37 Series

NEW

Power rating @ 70°C	500mW	Operating temperature	-55°C to +155°C
Voltage rating	3500V	Temperature coefficient	± 200ppm/K
Resistance tolerance	± 5%		

33M = **190-1889** 22M = **190-1890** 15M = **190-1891**

637528

Order Code	Price Each 10+	100+	500+	1K+
All Values				

HVR37 Series

0.5 Watt ±5%

L=10 max, Dia=3.7 max
Lead length=26 nom, Lead dia=0.7
Supplied bandoliered on tape (box=1K pcs)

- **BS415** safety approved for mains equipment.
- **UL** Approved

Power rating @ 70°C	500mW	Operating temperature	-55°C to +155°C
Voltage rating	2500V ac or 3500V dc	Temperature coefficient	±250ppm/°C

Stocked in the following OHMIC Values:

1M2 = **947-7284** 2M2 = **947-7322** 3M9 = **947-7365** 5M6 = **947-7381** 8M2 = **947-7403**
1M5 = **947-7292** 2M7 = **947-7330** 4M7 = **947-7373** 6M8 = **947-7390** 10M = **947-7268**
1M8 = **947-7306** 3M3 = **947-7357**

207409

Order Code	Price Each 10+	300+	3K+	10K+	30K+
All Values					

RoHS Compliant Non-compliant

1.6kV & 3.5kV – MH Series

¼Watt MH25 & ½Watt MH37

MH25 - L = 6.2, Dia. = 2.3, Lead length = 21min, Lead dia. = 0.6
Supplied bandoliered on tape (box = 5000 pcs)

MH37 - L = 9.0, Dia. = 3.7, Lead length = 19.6 min, Lead dia. = 0.8
Supplied bandoliered on tape (box = 2500 pcs)

- High voltage metal film resistors
- High pulse load capability
- Applications include high voltage power supplies, domestic appliance motor speed control, barrier resistors in televisions, capacitor bleed resistors

Power rating @ 70°C	250mW (MH25) 0.5W (MH37)	Operating temperature range	-55°C to +155°C
		Temperature coefficient	100ppm/°C
Resistance tolerance	±5%		

Stocked in the following OHMIC Values:

1.6kV MH25 Series

330K = **110-0276**	1M = **110-0281**	2M2 = **110-0286**	3M9 = **110-0289**	6M8 = **110-0292**
470K = **110-0278**	1M2 = **110-0283**	2M7 = **110-0287**	4M7 = **110-0290**	8M2 = **110-0293**
680K = **110-0279**	1M5 = **110-0284**	3M3 = **110-0288**	5M6 = **110-0291**	10M = **110-0295**
820K = **110-0280**	1M8 = **110-0285**			

3.5kV MH37 Series

330K = **110-0296** 470K = **110-0297** 680K = **110-0298** 820K = **110-0299** 1M = **110-0301**

312073

Order Code	Price Each 10+	50+	250+	500+	1K+
1.6kV MH25 Series					
All Values ●					
3.5kV MH37 Series					
All Values ●					

VRW Series

0.25 and 0.5 Watt

0.25W: L = 6.2, Dia. = 2.5, Lead length = 21, Lead dia. = 0.6
0.5W: L = 9, Dia. = 3.7, Lead length = 19.6, Lead dia. = 0.8

- High working voltage to 3.5kV in compact size
- High ohmic range
- High pulse load capability
- Robust flameproof coating material

Resistance tolerance	±5%	Voltage rating DC	0.25W = 1600V
Temperature coefficient	±200ppm/°C		0.5W = 3500V
Temperature coefficient	-55 to 155°C		

Stocked in the following OHMIC Values:

0.25W

330K = **129-2545**	680K = **129-2548**	1M8 = **129-2553**	4M7 = **129-2558**	8M2 = **129-2563**
470K = **129-2546**	1M = **129-2550**	3M9 = **129-2557**	6M8 = **129-2562**	10M = **129-2564**

0.5W

Stocked in the following OHMIC Values:

470K = **129-2566**	1M2 = **129-2570**	3M3 = **129-2576**	6M8 = **129-2580**
680K = **129-2567**	1M5 = **129-2571**	3M9 = **129-2577**	8M2 = **129-2581**
820K = **129-2568**	2M2 = **129-2574**	4M7 = **129-2578**	10M = **129-2582**
1M = **129-2569**	2M7 = **129-2575**		

451986

Order Code	Price Each 10+	50+	250+	500+	1K+
0.25W 330K - 2M2 ●					
0.25W 2M7 - 10M ●					
0.5W 330K - 2M2 ●					
0.5W 2M7 - 10M ●					

HHV Series

High Voltage, ±5%

Style	Dimension - Body Length(mm)	Dimension - Body Dia.(mm)	Dimension - Lead Length(mm)	Dimension - Lead Dia.(mm)
HHV-25	6.3±0.5	2.4±0.2	28±2	0.55±0.05
HHV-50	9±0.5	3.3±0.3	26±2	0.55±0.05

Style	HHV-25	HHV-50
Power Rating at 70 °C	1/4W	1/2W
Maximum Working Voltage (DC)	1600V	3500V
Maximum Overload Voltage (DC)	3000V	7000V
Dielectric Withstanding Voltage	500V	700V
Operating Temp. Range	-55°C to +155°C	
Temperature Coefficient	± 200ppm/°C	

HHV-25

Stocked in the following OHMIC Values:

100K = **177-9362**	470K = **177-9364**	2M2 = **177-9366**	10M = **177-9368**	47M = **177-9372**
220K = **177-9363**	1M = **177-9365**	4M7 = **177-9367**	22M = **177-9371**	

HHV-50

Stocked in the following OHMIC Values:

100K = **177-9373**	470K = **177-9375**	2M2 = **177-9377**	10M = **179-9379**	47M = **177-9381**
220K = **177-9374**	1M = **177-9376**	4M7 = **177-9378**	22M = **177-9380**	

554324

Order Code	Price Each 10+	50+	100+	500+	2K+
HHV-25 - All Values ●					
HHV-50 - All Values ●					

MGRF Series

1 and 2 Watt

- Small in dimension and broad range in high resistance
- Metal glaze resistor elements provide high stable performance against environmental conditions and overload
- Excellent in absorption of pulse and surge voltage

Power rating @ 70°C	1 W	Operating temperature	-55 °C to + 155 °C
Maximum overload voltage	4000 V	Temperature coefficient	±200 ppm/°C

Stocked in the following OHMIC Values:

MGRF 1 Watt

1M2 = **135-7949**	2M2 = **135-7952**	3M9 = **135-7956**	6M8 = **135-7959**	22M = **135-7963**
1M5 = **135-7950**	2M7 = **135-7953**	4M7 = **135-7957**	8M2 = **135-7960**	33M = **135-7964**
1M8 = **135-7951**	3M3 = **135-7954**	5M6 = **135-7958**	10M = **135-7961**	

MGRF 2 Watt

1M2 = **135-7965**	2M2 = **135-7969**	3M9 = **135-7972**	6M8 = **135-7975**	15M = **135-7978**
1M5 = **135-7966**	2M7 = **135-7970**	4M7 = **135-7973**	8M2 = **135-7976**	22M = **135-7981**
1M8 = **135-7968**	3M3 = **135-7971**	5M6 = **135-7974**	10M = **135-7977**	33M = **135-7982**

472899

Order Code	Price Each 10+	50+	250+	500+	1K+
1 Watt MGRF Series					
All Values ●					
2 Watt MGRF Series					
All Values ●					

High Voltage

High Resistance - HTS Series

HTS63
HTS68
HTS523

- Core: High purity ceramic
- Coating: Epoxy
- Climatic category: - 55 °C/+ 155 °C/56 days

Operating temperature range	-55°C to +155°C	Lead diameter	0.8mm
Tolerance	± 5%	Lead length	25mm
Lead diameter (HTS63 only)	0.6mm		

0.5 Watt - HTS63

Resistance	Voltage Rating	Temperature Coefficient	Dimensions Width	Dimensions Diameter	Mftrs. List No.	Order Code
10M	1kV	± 150ppm/°C	8.5mm	2.2mm	HTS00631005JPB17	171-3990
50M	1kV	± 150ppm/°C	8.5mm	2.2mm	HTS00635005JPB17	171-3992
100M	1kV	± 150ppm/°C	8.5mm	2.2mm	HTS00631006JPB17	171-3993
250M	1kV	± 150ppm/°C	8.5mm	2.2mm	HTS00632506JPB17	171-3994
500M	1kV	± 150ppm/°C	8.5mm	2.2mm	HTS00635006JPB17	171-3995

Order Code	Price Each 1+	10+	25+	50+
All Values ●				

1 Watt - HTS68

Resistance	Voltage Rating	Temperature Coefficient	Dimensions Width	Dimensions Diameter	Mftrs. List No.	Order Code
100M	2kV	± 150ppm/°C	14mm	3.5mm	HTS00681006JPB15	171-3996
10M	2kV	± 150ppm/°C	14mm	3.5mm	HTS00681005JPB15	171-3999
20M	2kV	± 150ppm/°C	14mm	3.5mm	HTS00682005JPB15	171-4000
50M	2kV	± 150ppm/°C	14mm	3.5mm	HTS00685005JPB15	171-4001
500M	2kV	± 150ppm/°C	14mm	3.5mm	HTS00685006JPB15	171-4002
1G	2kV	± 150ppm/°C	14mm	3.5mm	HTS00681007JPB15	171-3997
2G	2kV	± 150ppm/°C	14mm	3.5mm	HTS00682007JPB15	171-3998

Order Code	Price Each 1+	+	+	+
All Values ●				

1 Watt - HTS523

High Voltage - continued

1 Watt - HTS68 - continued

Resistance	Voltage Rating	Temperature Coefficient	Dimensions Width	Dimensions Diameter	Mftrs. List No.	Order Code
10M	5kV	± 150ppm/°C	23mm	4.5mm	HTS05231005JPB19	171-4003
20M	5kV	± 150ppm/°C	23mm	4.5mm	HTS05232005JPB19	171-4005
50M	5kV	± 150ppm/°C	23mm	4.5mm	HTS05235005JPB19	171-4006
100M	5kV	± 150ppm/°C	23mm	4.5mm	HTS05231006JPB19	171-4007
200M	5kV	± 150ppm/°C	23mm	4.5mm	HTS05232006JPB19	171-4008
1G	5kV	± 150ppm/°C	23mm	4.5mm	HTS05231007JPB19	171-4009
2G	5kV	± 150ppm/°C	23mm	4.5mm	HTS05232007JPB19	171-4010
5G	5kV	± 150ppm/°C	23mm	4.5mm	HTS05235007JPB19	171-4011

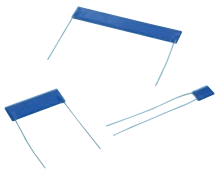
536557

Price Each

Order Code	1+	10+	25+	50+
All Values ●				

High Voltage Resistors

HB Series



- Unique specification for the most demanding applications
- Established product with proven reliability
- Applications include high voltage, voltage divider, surge, filter, balancing, inrush limiting

HBA: H=12.5, W=8.0, D=2.6
HB1: H=10.4, W=26.5, D=3.0
HB3: H=10.4, W=52.0, D=3.0

	HBA	HB1	HB2
Power Rating @ 20°C	800mW	2W	4W
Voltage Rating (max)	1kV	7.5kV	15kV
Temperature Coefficient	± 100ppm/°C	± 100ppm/°C	± 100ppm/°C
Operating Temperature	-55°C to +125°C	-55°C to +125°C	-55°C to +125°C
Tolerance	± 1%	± 1%	± 1%

HBA

Stocked in the following OHMIC Values:

100M = **150-2902**

Price Each

Order Code	1+	15+	50+	100+
All Values ●				

HB1

Stocked in the following OHMIC Values:

10K = **150-2879** 500K = **150-2889** 5M = **150-2893** 50M = **150-2892** 400M = **150-2887**
100K = **150-2877** 1M = **150-2882** 10M = **150-2880** 100M = **150-2878** 500M = **150-2891**
300K = **150-2884** 3M = **150-2886** 20M = **150-2883** 300M = **150-2885** 1G = **150-2881**

Price Each

Order Code	1+	15+	50+	100+
All Values ●				

HB3

Stocked in the following OHMIC Values:

1M = **150-2897** 10M = **150-2895** 100M = **150-2894** 500M = **150-2899** 1G = **150-2896**
5M = **150-2901** 50M = **150-2900** 330M = **150-2898**

494394

Price Each

Order Code	1+	15+	50+	100+
All Values ●				

RX Series

Hi-Meg

Power Rating	500mW
Voltage Rating	1kV
Tolerance	± 1%
Tolerance (RX-1M5009KE)	± 10%
Temperature Coefficient	± 50ppm/°C

L=47.63, Dia=5mm, Lead length=22.9mm

- Glass sealed hermetric resistors
- Improved temperature stability
- Improved voltage stability
- Metal oxide resistive elements
- No outgassing
- Applications include ultra high vacuum, medical instrumentation, current pulse limiters, avionics

Stocked in the following OHMIC Values

1G = **163-3830** 5G = **163-3832** 10G = **163-3833** 100G = **163-3835** 500G = **163-3836**

520523

Price Each

	Order Code	1+	10+	50+	100+	500+
RX-1M1007FE	**163-3830**●					
RX-1M5007FE	**163-3832**●					
RX-1M1008FE	**163-3833**●					
RX-1M1009FE	**163-3835**●					
RX-1M5009KE	**163-3836**●					

Precision Thick Film Planar Resistors

Slim-Mox Series

- High dielectric and low outgassing epoxy coating
- Planar package saves space over traditional high voltage resistors
- Low resistor noise
- Non inductive
- Applications include HV power supplies, medical instrumentation, current pulse limiters

Operating temperature range	-55°C to +110°C	Tolerance	± 1%
Temperature coefficient	± 25ppm/°C	Lead diameter	0.813mm
		Lead length	33mm

1 Watt

Resistance	Voltage Rating	Dimensions L	Dimensions W	Dimensions D	Lead Pitch	Mftrs. List No.	Order Code
500kohm	5kV	14.73mm	2.54mm	8.64mm	10.16mm	SM102035003FE	155-0754
1Mohm	5kV	14.73mm	2.54mm	8.64mm	10.16mm	SM102031004FE	155-0756
2Mohm	5kV	14.73mm	2.54mm	8.64mm	10.16mm	SM102032004FE	155-0757
5Mohm	5kV	14.73mm	2.54mm	8.64mm	10.16mm	SM102035004FE	155-0758
10Mohm	5kV	14.73mm	2.54mm	8.64mm	10.16mm	SM102031005FE	155-0759
20Mohm	5kV	14.73mm	2.54mm	8.64mm	10.16mm	SM102032005FE	155-0760
50Mohm	5kV	14.73mm	2.54mm	8.64mm	10.16mm	SM102035005FE	155-0761
100Mohm	5kV	14.73mm	2.54mm	8.64mm	10.16mm	SM102031006FE	155-0763
500Mohm	5kV	14.73mm	2.54mm	8.64mm	10.16mm	SM102035006FE	155-0764
1Gohm	5kV	14.73mm	2.54mm	8.64mm	10.16mm	SM102031007FE	155-0765

Price Each

Order Code	1+	10+	25+	50+	250+
All Values ●					

1.5 Watt

Resistance	Voltage Rating	Dimensions L	Dimensions W	Dimensions D	Lead Pitch	Mftrs. List No.	Order Code
500kohm	10kV	27.43mm	2.54mm	8.64mm	22.86mm	SM104035003FE	155-0766
1Mohm	10kV	27.43mm	2.54mm	8.64mm	22.86mm	SM104031004FE	155-0768
2Mohm	10kV	27.43mm	2.54mm	8.64mm	22.86mm	SM104032004FE	155-0769
5Mohm	10kV	27.43mm	2.54mm	8.64mm	22.86mm	SM104035004FE	155-0770
10Mohm	10kV	27.43mm	2.54mm	8.64mm	22.86mm	SM104031005FE	155-0771
20Mohm	10kV	27.43mm	2.54mm	8.64mm	22.86mm	SM104032005FE	155-0772
50Mohm	10kV	27.43mm	2.54mm	8.64mm	22.86mm	SM104035005FE	155-0773
100Mohm	10kV	27.43mm	2.54mm	8.64mm	22.86mm	SM104031006FE	155-0774
500Mohm	10kV	27.43mm	2.54mm	8.64mm	22.86mm	SM104035006FE	155-0775
1Gohm	10kV	27.43mm	2.54mm	8.64mm	22.86mm	SM104031007FE	155-0776

Price Each

Order Code	1+	10+	25+	50+	250+
All Values ●					

2.5 Watt

Resistance	Voltage Rating	Dimensions L	Dimensions W	Dimensions D	Lead Pitch	Mftrs. List No.	Order Code
500kohm	20kV	52.83mm	2.54mm	8.64mm	48.26mm	SM108035003FE	155-0777
2Mohm	20kV	52.83mm	2.54mm	8.64mm	48.26mm	SM108032004FE	155-0781
5Mohm	20kV	52.83mm	2.54mm	8.64mm	48.26mm	SM108035004FE	155-0782
10Mohm	20kV	52.83mm	2.54mm	8.64mm	48.26mm	SM108031005FE	155-0783
20Mohm	20kV	52.83mm	2.54mm	8.64mm	48.26mm	SM108032005FE	155-0784
50Mohm	20kV	52.83mm	2.54mm	8.64mm	48.26mm	SM108035005FE	155-0785
100Mohm	20kV	52.83mm	2.54mm	8.64mm	48.26mm	SM108031006FE	155-0786
500Mohm	20kV	52.83mm	2.54mm	8.64mm	48.26mm	SM108035006FE	155-0787
1Gohm	20kV	52.83mm	2.54mm	8.64mm	48.26mm	SM108031007FE	155-0788

501289

Price Each

Order Code	1+	10+	25+	50+	250+
All Values ●					

High Resistance

MOX Series

- High-voltage resistors developed for precision temperature stability requirements of high-accuracy and high-voltage systems
- Low temperature coefficient, low voltage coefficients, high stability and increased high operating voltages
- Applications include high voltage power supplies, electron microscopes, X-ray systems, high resolution CRT displays and geophysical instruments

Operating temperature range	-55°C to +225°C	Lead diameter	0.8mm
Tolerance	± 1%	Lead length	35mm

5 Watt

Resistance	Voltage Rating	Temperature Coefficient	Dimensions Length	Dimensions Diameter	Mftrs. List No.	Order Code
10Mohm	21kV	± 50ppm/°C	37mm	8mm	MOX92021005FVE	155-0794
100Mohm	21kV	± 50ppm/°C	37mm	8mm	MOX92021006FVE	155-0795
1Gohm	21kV	± 100ppm/°C	37mm	8mm	MOX92021007FTE	155-0796

Price Each

Order Code	1+	10+	100+	500+
All Values ●				

10 Watt

Resistance	Voltage Rating	Temperature Coefficient	Dimensions Length	Dimensions Diameter	Mftrs. List No.	Order Code
10Mohm	45kV	± 50ppm/°C	77mm	8mm	MOX94021005FVE	155-0801
100Mohm	45kV	± 50ppm/°C	77mm	8mm	MOX94021006FVE	155-0802
1Gohm	45kV	± 100ppm/°C	77mm	8mm	MOX94021007FTE	155-0804

RoHS ● Compliant ▲ Non-compliant

501204

Order Code	Price Each 1+	10+	100+	500+
All Values ●				

High Voltage Resistors – 10 Watt

T48 Series

- Thick film construction
- Leaded terminations

L=150, Dia=8.4, Lead length=32, Lead dia=0.8

Power Rating	Voltage Rating	Operating Temperature	Temperature Coefficient	Tolerance
10W	50kV	-55°C to +150°C	± 100ppm/°C	±± 1%

Stocked in the following OHMIC Values:

100M = **160-5139** 220M = **160-5141** 330M = **160-5142** 470M = **160-5143** 680M = **160-5144**
150M = **160-5140**

510478

Order Code	Price Each 1+	5+	10+	+	+
All Values ●					

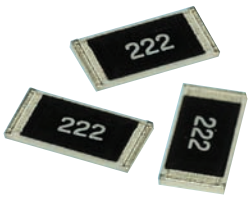
Fusible Resistors

Fusible resistors designed to meet the safety requirements of power supply, measurement, control and audio/video equipment where protection against overload is required. The resistors become open circuit within a certain range of overload without the risk of fire.

228311

FCR Series – Fusible Chip Resistors

1206 Case Size



- Chip resistors with known fusible characteristics - will not produce flames or smoke during fusing
- Suitable for battery operated circuits
- Application include high frequency operation

H=3.2, W=1.6, D=0.6

Power rating @ 70°C	125mW	Operating temperature	-55°C to +125°C
Temperature coefficient	± 1000ppm/°C	Tolerance	± 5%

Stocked in the following OHMIC Values:

10R = **150-2924** 22R = **150-2925** 33R = **150-2926** 47R = **150-2927** 100R = **150-2928**

494379

Order Code	Price Each 10+	100+	1K+	5K+
All Values ●				

FRN Series

Flame-Proof Fusible Resistors

NEW

- These resistors fuse in less than 60 seconds at 16 times rated power
- Ideal for use in safety, critical and circuit protection applications

Power rating @ 70°C FRN25	250mW
Power rating @ 70°C FRN50	500mW
Voltage rating	250V
Operating temperature	
Temperature coefficient	± 350ppm/°C
Resistance tolerance	± 5%

Stocked in the following OHMIC Values:

10R = **189-8492** 47R = **189-8496** 0R47 = **189-8500** 1K = **189-8503** 2R2 = **189-8507**
1K = **189-8493** 4R7 = **189-8497** 100R = **189-8501** 1R = **189-8505** 470R = **189-8508**
1R = **189-8494** 0R22 = **189-8499** 10R = **189-8502** 220R = **189-8506** 4R7 = **189-8509**
2R2 = **189-8495**

637527

Series	Order Code	Price Each 10+	50+	100+	500+	1K+
FRN25	All Values●					
FRN50	All Values●					

0.33 Watt ±5% – NFR25 Series

L=6.5 max, Dia=2.5 max.
Lead length=26 nom, Lead dia.=0.6
Supplied bandoliered on tape (box=1K pcs)

- Leaded fusible resistor
- Coated in grey flame retardant lacquer
- Resistant to cleaning solvents according to **MIL STD 202E method 215** and **IEC 68-2-45**

Power rating @ 70°C	330mW	Operating temperature	-55°C to +155°C
Temperature coefficient	(1R to 10R=200 ppm/°C)±100ppm/°C		
Voltage rating	250V ac		

Stocked in the following OHMIC Values:

1R = **947-3939** 10R = **947-3912** 100R = **947-3890** 1K = **947-3920** 4K7 = **947-4005**
2R2 = **947-3971** 22R = **947-3955** 220R = **947-3947** 2K2 = **947-3963** 10K = **947-3904**
4R7 = **947-4013** 47R = **947-3998** 470R = **947-3980**

207430

Order Code	Price Each 10+	300+	3K+	10K+	30K+
All Values ●					

0.5W ±5% – NFR25H Series

L=6.5, Dia=2.5 max
Lead length=26 nom, Lead dia=0.6
Supplied bandoliered on tape (box=1K pcs)

- Leaded fusible resistor
- Coated in grey flame retardant lacquer
- Resistant to cleaning solvents according to **MIL STD 202E method 215** and **IEC 68-2-45**

Power rating @ 70°C	500mW	Operating temperature	-55°C to +155°C
Voltage rating	350V ac	Temperature coefficient	±200ppm/°C

Stocked in the following OHMIC Values:

1R = **947-4048** 4R7 = **947-4080** 22R = **947-4056** 100R = **947-4021**
2R2 = **947-4064** 10R = **947-4030** 47R = **947-4072**

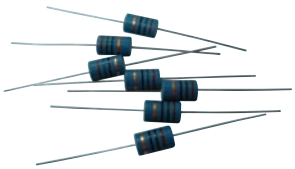
207428

Order Code	Price Each 10+	300+	3K+	10K+	30K+
All Values ●					

Anti Explosion Fusible Resistors

FAE Series

NEW



- Good pulse handling capability
- Small size for power rating

5.5x9.5mm (HxW) Lead - 26x0.6mm (LxDia)

Power rating @ 70°C	1W	Temperature coefficient	± 300ppm/°C
Voltage rating	350V	Resistance Tolerance	± 5%
Operating temperature	-55°C to +155°C		

Stocked in the following OHMIC Values:

0R1 = **185-2518** 1R = **185-2521** 10R = **185-2524** 47R = **185-2526**
0R22 = **185-2519** 2R2 = **185-2522** 22R = **185-2525** 100R = **185-2527**
0R47 = **185-2520** 4R7 = **185-2523**

618886

Order Code	Price Each 5+	50+	500+	1K+	2K+
All Values ●					

EMC Series

Flameproof Metal Film Fusible Resistors

- UL1412 recognised fusible resistor
- Good pulse handling capability
- Small size for power rating

Power rating @ 70°C	2W
Voltage rating	500V
Operating temperature	-55°C to +155°C
Temperature coefficient	± 100ppm/°C
Resistance Tolerance	± 10%

4x10mm (HxW) Lead - 27x0.8mm (LxDia)

Stocked in the following OHMIC Values:

4R7 = **173-8535** 8R2 = **173-8538** 15R = **173-8540** 27R = **173-8542** 47R = **173-8544**
6R8 = **173-8536** 10R = **173-8539** 22R = **173-8541** 33R = **173-8543** 68R = **173-8545**

541572

Order Code	Price Each 10+	100+	500+	1K+	2K+
All Values ●					

ULW Series

Wirewound Resistors

ULW2 - 3.6x9mm (HxW) Lead - 19.8x0.8mm (LxDia)
ULW3 - 5.2x14.5mm (HxW) Lead - 24.6x0.8mm (LxDia)
ULW4 - 5.6x13mm (HxW) Lead - 22.8x0.8mm (LxDia)

- UL1412 recognised fusible resistor
- Inrush and surge withstanding

Fusible Resistors - continued

ULW Series - continued

ULW2 - continued

	ULW2	ULW3	ULW4
Power rating @ 70°C	2W	3W	4W
Voltage rating	250V	350V	500V
Operating temperature	-55°C to +155°C	-55°C to +155°C	-55°C to +155°C
Temperature coefficient	± 200ppm/°C	± 200ppm/°C	± 200ppm/°C
Resistance Tolerance	± 5%	± 5%	± 5%

Stocked in the following OHMIC Values:

ULW2

22R = **173-8521** 47R = **173-8523** 68R = **173-8524** 100R = **173-8526**
33R = **173-8522**

ULW3

10R = **173-8527** 27R = **173-8529** 47R = **173-8531** 100R = **173-8533**
22R = **173-8528** 33R = **173-8530** 68R = **173-8532**

ULW4

10R = **173-8534**

541567

Order Code	Price Each 10+	100+	500+	1K+	2K5+
ULW2 - All Values ●					
ULW3 - All Values ●					
ULW4 - All Values ●					

Power - Thick Film

5 Watt-MPC Series

Tyco Electronics

- Non-inductive thick film power resistor
- For snubber, pulse generators and surge absorbtion in power products.

Power rating @ 70°C	5W
Maximum working Voltage	300V a.c.
Dielectric strength	5000 Volts d.c.
Resistance tolerance	±5%
Operating temperature	-55°C to +155°C
Temperature coefficient	±100ppm/°C

H=25.4, W=12.7, Lead pitch=5.08

Stocked in the following OHMIC Values:

1R = **117-4263** 50R = **117-4268** 200R = **117-4270** 1K = **117-4272** 10K = **117-4275**
10R = **117-4266** 100R = **117-4269** 500R = **117-4271** 5K = **117-4274** 50K = **117-4278**

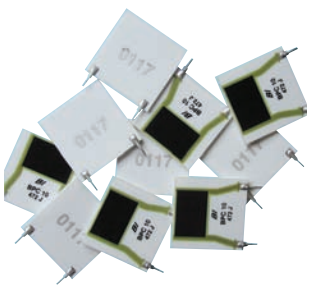
207237

Order Code	Price Each 1+	50+	100+	500+
All Values ●				

BPC Series

TT electronics BI Technologies

Thick Film – Power Resistor



- High power density
- Low temperature
- Power is dissipated above circuit board
- Applications includes UPS systems, Snubber circuits, Power suppy preloads

Resistance Tolerance (min)	±5%
Temperature range	-55°C to 125°C
Temperature Coefficient	100ppm/°C to 100ppm/°C

5W

Resistance	Mftrs. List No.	Order Code	Price Each 1+	50+	100+	500+
1ohm	BPC51R0J	**943-2116**●				
2ohm	BPC52R0J	**943-2124**●				
5ohm	BPC55R0J	**943-2132**●				
10ohm	BPC5100J	**943-2140**●				
20ohm	BPC5200J	**943-2159**●				
50ohm	BPC5500J	**943-2167**●				
100ohm	BPC5101J	**943-2175**●				
200ohm	BPC5201J	**943-2183**●				
500ohm	BPC5501J	**943-2191**●				
1kohm	BPC5102J	**943-2205**●				
2kohm	BPC5202J	**943-2213**●				

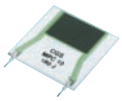
10W

411616

Resistance	Mftrs. List No.	Order Code	Price Each 1+	50+	100+	500+
1ohm	BPC101R0J	**943-2264**●				
2ohm	BPC102R0J	**943-2272**●				
5ohm	BPC105R0J	**943-2280**●				
10ohm	BPC10100J	**943-2299**●				
20ohm	BPC10200J	**943-2302**●				
50ohm	BPC10500J	**943-2310**●				
100ohm	BPC10101J	**943-2329**●				
2kohm	BPC10202J	**943-2361**●				
10kohm	BPC10103J	**943-2388**●				
20kohm	BPC10203J	**943-2396**●				

MPC Series - 10 Watt

Tyco Electronics



H=30.86, W=25.4,
Lead pitch=20.32

- Non-inductive thick film power resistors
- High power density
- Complements the T0220 packaged MPR series
- For snubber, pulse generators and surge absorbtion in power products.

Power rating @ 70°C	10W	Resistance tolerance	±5%
Maximum working Voltage	300V a.c.	Operating temperature	-55°C to +155°C
Dielectric strength	5000 Volts d.c.	Temperature coefficient	±100ppm/°C

Stocked in the following OHMIC Values:

10R = **126-5150** 50R = **126-5152** 1K = **126-5157** 2K = **126-5158** 50K = **126-5162**

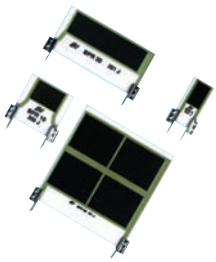
451343

Order Code	Price Each 1+	50+	250+	500+
All Values ●				

BPR Series

TT electronics BI Technologies

Thick Film – Power Resistor



- High power density
- Low temperature
- Power is dissipated above circuit board
- Applications includes Inrush current suppression and limiters, Snubber circuits, Switching power supplies

Resistance Tolerance (min)	±5%
Temperature range	-55°C to 155°C
Temperature Coefficient	100ppm/°C to 100ppm/°C

Resistance	Mftrs. List No.	Order Code	Price Each 1+	50+	100+	500+
1ohm	BPR101R0J	**943-2418**●				
2ohm	BPR102R0J	**943-2426**●				
10ohm	BPR10100J	**943-2442**●				
50ohm	BPR10500J	**943-2469**●				
100ohm	BPR10101J	**943-2477**●				

411618

Resistance	Mftrs. List No.	Order Code	Price Each 1+	50+	100+	500+
1ohm	BPR301R0J	**943-2566**●				
10ohm	BPR30100J	**943-2590**●				
50ohm	BPR30500J	**943-2612**●				
100ohm	BPR30101J	**943-2620**●				

TK / TN Series

OHMITE

20 and 15 Watt TO-220 Package

- Low resistance values
- Thick and thin film
- Thin film construction is the first thin film power resistor in heatsinkable packaging on the market
- Please see data sheet for heatsink requirements

Series	Resistance	Power Rating	Tolerance	Mftrs. List No.	Order Code
TK	0.03ohm	20W	± 5%	TK20PR030JE	146-2263
TK	0.04ohm	20W	± 5%	TK20PR040JE	146-2264
TK	0.05ohm	20W	± 5%	TK20PR050JE	146-2265
TK	0.1ohm	20W	± 5%	TK20PR100JE	146-2266
TK	1ohm	20W	± 5%	TK20P1R00JE	146-2267
TK	10ohm	20W	± 5%	TK20P10R0JE	146-2269
TK	100ohm	20W	± 5%	TK20P100RJE	146-2272
TN	7.5ohm	15W	± 1%	TN15P7R50FE	146-2274
TN	10ohm	15W	± 2%	TN15P10R0GE	146-2275
TN	50ohm	15W	± 1%	TN15P50R0FE	146-2276

RoHS ● Compliant ▲ Non-compliant

Series	Resistance	Power Rating	Tolerance	Mftrs. List No.	Order Code
TN	75ohm	15W	± 1%	TN15P75R0FE	146-2277
TN	100ohm	15W	± 2%	TN15P100RGE	146-2278
TN	500ohm	15W	± 1%	TN15P500RFE	146-2279
TN	750ohm	15W	± 1%	TN15P750RFE	146-2280
TN	1kohm	15W	± 2%	TN15P1K00GE	146-2281

20 Watt Thick Film

Stocked in the following OHMIC values:

0R03 = **146-2263** 0R05 = **146-2265** 1R = **146-2267** 10R = **146-2269** 100R = **146-2272**
0R04 = **146-2264** 0R1 = **146-2266**

Order Code	Price Each 1+	25+	50+	100+	500+
All Values					

15 Watt Thin Film

Stocked in the following OHMIC values:

7R5 = **146-2274** 50R = **146-2276** 100R = **146-2278** 750R = **146-2280** 1K = **146-2281**
10R = **146-2275** 75R = **146-2277** 500R = **146-2279**

486823

Order Code	Price Each 1+	25+	50+	100+	500+
All Values					

Mounting Bracket for TK and TN Series

Height = 22.86mm Width = 8.12mm Depth = 6.10mm Thread size = 3mm

496966

Order Code	Price Each 1+	25+	50+	100+	500+
146-2282●					

20 Watt - SMHP Series TO-263 Package

TT electronics BI Technologies

- TO-263 surface mount package offering a very low thermal resistance
- Suitable for board mounting with either solder or clip
- Non-inductive, high power resistor.

Application includes: High precision CRT color video amplifiers, In-rush current protection, rush current protection, Bleeder Resistors.

Power rating	20W	Temperature coefficient	50ppm/°C (10-1kΩ)
Voltage rating	500V		100ppm/°C (0.1-2Ω)
Resistance tolerance	±1%		250ppm/°C (0.02Ω)
Operating temperature	-55°C to +155°C		

Stocked in the following OHMIC Values:

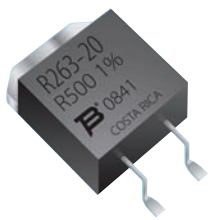
0R02 = **111-4435** 1R = **111-4439** 2R = **111-4441** 1K = **111-4433**
0R1 = **111-4436**

423562

Order Code	Price Each 1+	50+	250+	500+	1K+
All Values ● RL					

20 Watt - PWR263 Series D2-PAK Package

NEW BOURNS



- Low inductance
- Resistor electrically isolated from the backplate
- High power rating

Operating temperature	-55°C to +155°C
Temperature coefficient	± 100ppm/°C

Power 20 W Tolerance ±5% Stocked in the following OHMIC Values

0R5 = **171-3704** 2R5 = **171-3709** 7R5 = **171-3715** 27R = **171-3720** 75R = **171-3726**
0R75 = **171-3705** 3R = **171-3710** 10R = **171-3716** 30R = **171-3721** 100R = **171-3727**
1R = **171-3706** 3R3 = **171-3712** 12R = **171-3717** 33R = **171-3722** 330R = **171-3728**
1R5 = **171-3707** 4R7 = **171-3713** 15R = **171-3718** 47R = **171-3724** 470R = **171-3729**
2R = **171-3708** 5R6 = **171-3714** 20R = **171-3719** 56R = **171-3725** 1K = **171-3730**

Power 35 W Tolerance ±1% Stocked in the following OHMIC Values

0R27 = **210-1715** 3R = **210-1692** 8R2 = **210-1714** 33R = **210-1690** 330R = **210-1663**
0R5 = **210-1716** 3K3 = **210-1665** 10R = **210-1669** 47R = **210-1698** 470R = **210-1667**
0R75 = **210-1718** 3R3 = **210-1694** 12R = **210-1670** 50R = **210-1703** 1K = **210-1653**
1R = **210-1675** 4R7 = **210-1700** 15R = **210-1673** 56R = **210-1704** 10K = **210-1655**
1R5 = **210-1677** 5R = **210-1706** 20R = **210-1679** 75R = **210-1709** 30K = **210-1661**
2R = **210-1684** 5R6 = **210-1707** 27R = **210-1681** 100R = **210-1651** 130K = **210-1657**
2R5 = **210-1686** 7R5 = **210-1711** 30R = **210-1688**

Power 35 W Tolerance ±5% Stocked in the following OHMIC Values

0R5 = **210-1717** 3R = **210-1693** 12R = **210-1672** 40R = **210-1697** 470R = **210-1668**
0R75 = **210-1719** 3K3 = **210-1666** 15R = **210-1674** 47R = **210-1699** 1K = **210-1654**
1R = **210-1676** 3R3 = **210-1696** 20R = **210-1680** 56R = **210-1705** 10K = **210-1656**
1R5 = **210-1678** 4R7 = **210-1702** 27R = **210-1682** 75R = **210-1710** 30K = **210-1662**
2R = **210-1685** 5R6 = **210-1708** 30R = **210-1689** 100R = **210-1652** 130K = **210-1659**
2R5 = **210-1687** 7R5 = **210-1712** 33R = **210-1691** 330R = **210-1664**

536552

Values Order Code	Price Each 1+	10+	50+	100+	500+
0 ohm to 9.9 ohm ●					
≥10 ohm ●					

35 Watt - PWR220T-35 Series TO-220 DPAK Package

NEW BOURNS

- Low inductance
- Resistor electrically isolated from the backplate
- High power rating

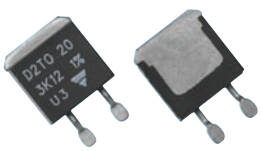
Power rating	35W
Voltage rating	250V
Operating temperature	-55°C to +155°C
Temperature coefficient	± 100ppm/°C

657719

Resistance	Order Code	Price Each 1+	10+	50+	100+	500+
0.1ohm (± 1%)	210-1746●					
0.27ohm (± 1%)	210-1747●					
1ohm (± 1%)	210-1729●					
1ohm (± 5%)	210-1730●					
2.2ohm (± 5%)	210-1733●					
3.3ohm (± 1%)	210-1735●					
4.7ohm (± 1%)	210-1740●					
4.7ohm (± 5%)	210-1741●					
5ohm (± 1%)	210-1743●					
5ohm (± 5%)	210-1744●					
7.5ohm (± 5%)	210-1745●					
10ohm (± 1%)	210-1723●					
10ohm (± 5%)	210-1724●					
15ohm (± 5%)	210-1728●					
20ohm (± 1%)	210-1731●					
25ohm (± 5%)	210-1732●					
47ohm (± 1%)	210-1738●					
47ohm (± 5%)	210-1739●					
50ohm (± 5%)	210-1742●					
100ohm (± 5%)	210-1720●					
150ohm (± 1%)	210-1727●					
330ohm (± 5%)	210-1734●					
470ohm (± 5%)	210-1736●					
10kohm (± 1%)	210-1721●					
10kohm (± 5%)	210-1722●					
100kohm (± 5%)	210-1726●					

20/35Watt - D2TO20 Series TO-263 Package

VISHAY



- Surface mounted resistor - TO-263 (D2 PAK) style package
- Non Inductive
- Resistor isolated from metal tab
- Solder reflow secure at 270°C/10s

Power rating	20W	35W
Voltage rating	250V	250V
Resistance tolerance	± 1%	± 1%
Operating temperature	-55°C to +155°C	-55°C to +175°C

20W

Stocked in the following OHMIC Values:

0R01 = **151-7328** 0R05 = **151-7332** 1R = **151-7336** 10R = **151-7342** 47R = **151-7345**
0R015 = **151-7329** 0R068 = **151-7333** 2R2 = **151-7337** 15R = **151-7343** 100R = **151-7346**
0R022 = **151-7330** 0R1 = **151-7334** 4R7 = **151-7339** 22R = **151-7344** 1K = **151-7347**
0R047 = **151-7331** 0R47 = **151-7335** 5R = **151-7341**

35W

Stocked in the following OHMIC Values:

1K = **179-0967** 1R = **179-0971** 4R7 = **179-0976** 0R022 = **179-0980** 0R068 = **179-0983**
100R = **179-0968** 22R = **179-0972** 5R = **179-0977** 0R047 = **179-0981** 0R1 = **179-0984**
10R = **179-0969** 2R2 = **179-0974** 0R01 = **179-0978** 0R05 = **179-0982** 0R47 = **179-0986**
15R = **179-0970** 47R = **179-0975** 0R015 = **179-0979**

496929

Order Code	Price Each 1+	10+	50+	100+	500+
0.01ohm to 0.022ohm ●					
0.047ohm to 0.1ohm ●					
0.47ohm to 1kohm ●					
35W All Values ●					

20 Watt - MHP 20S Series
TO-126 Package

- Superior vibration durability
- Small thin package for high density PCB installation
- TO-126 style package offering a very low thermal resistance of 5.9 C°/W

Application includes: High precision CRT color video amplifiers, Pulse generator load resistors, VHF amplifiers.

Power rating	20W	Temperature coefficient	50ppm/°C (10-1kΩ)
Voltage rating	300V		100ppm/°C (0.1-2Ω)
Resistance tolerance	±1%		250ppm/°C (0.02Ω)
Operating temperature	-55°C to +155°C		

Stocked in the following OHMIC Values:

0R02 = **111-4395**	1R = **111-4399**	10R = **111-4392**	47R = **111-4394**
0R1 = **111-4397**	2R = **111-4400**	22R = **111-4398**	1K = **111-4393**

423669

Price Each

Order Code	1+	50+	250+	500+	1K+
All Values●					

20 Watt - MPR 20 Series
TO-220 Package

- Non-inductive power resistors
- TO-220 package for PCB or heatsink mounting
- Base plate and lead frame are copper ensuring excellent thermal dissipation

H (above PCB)=19 W=10.6 D=4.5

Power rating @ 25°C	2W (20W with 6.0°C/W heat sink fitted)20W	Resistance tolerance	±5%
		Operating temperature	-55°C to +155°C
Voltage rating	500V	Temperature coefficient	±250ppm/°C
Dielectric strength	2000dcV/m		

Stocked in the following OHMIC Values:

0R22 = **117-4220**	3R3 = **117-4224**	33R = **117-4229**	220R = **117-4233**	4K7 = **117-4238**
0R47 = **117-4221**	4R7 = **117-4225**	47R = **117-4231**	330R = **117-4234**	10K = **117-4239**
1R = **117-4222**	10R = **117-4226**	100R = **117-4232**	470R = **117-4235**	15K = **117-4240**
2R2 = **117-4223**	22R = **117-4227**			

207217

Price Each

Order Code	1+	25+	50+	100+	250+
All Values ●					

MHP Series, TO-220 Package
20W, 35W & 50W

- Voltage: 500 V
- Resistance: ±1%
- Temperature Range: -55°C to +155°C
- Small thin package for high density PCB installation.

Series	MHP 20	MHP 35	MHP 50
Power	20W	35W	50W
Temperature Coefficient	250ppm/°C	250ppm/°C	250ppm/°C
Thermal Resistance	5.9 °C/W	3.3 °C/W	2.3 °C/W

MHP 20 Series

Stocked in the following OHMIC Values:

0R01 = **111-4386**	1R = **111-4389**	22R = **111-4382**	270R = **111-4383**
0R05 = **111-4387**	4R7 = **111-4390**	33R = **111-4385**	10K = **111-4391**
0R1 = **111-4388**			

MHP 35 Series

Stocked in the following OHMIC Values:

0R05 = **111-4406**	1R = **111-4408**	10R = **111-4401**	200R = **111-4404**
0R1 = **111-4407**	4R7 = **111-4409**	47R = **111-4405**	1K = **111-4403**

MHP 50 Series

Stocked in the following OHMIC Values:

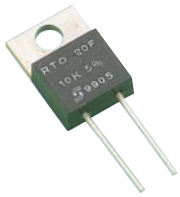
0R01 = **111-4415**	0R47 = **111-4418**	47R = **111-4412**	470R = **111-4413**	
0R05 = **111-4416**	1R = **111-4419**	100R = **111-4410**	1K = **111-4411**	
0R25 = **111-4417**				

537348

Price Each

Order Code	1+	50+	250+	500+	1K+
All MHP 20 Values ●					
All MHP 35 Values ●					
All MHP 50 Values ●					

20 & 50 Watt – RTO Series
TO-220 Package



- Non-inductive thick film technology
- Low temperature coefficient
- High power dissipation to size ratio

20 Watt

Power rating (Pr) @ 25°C	20W	Dielectric strength	2000Vrms
with heatsink	20W20W	Limiting element voltage	250V
without heatsink	20W	Thermal resistance	6.5°C/W250V
Resistance tolerance	±5%	Overload capacity	2 x Pr for 5 secs6.5°C/W
Operating temperature	-55°C to +155°C		

Stocked in the following OHMIC Values:

0R1 = **114-0196**	4R7 = **114-0200**	22R = **114-0204**	100R = **114-0209**	2K7 = **114-0214**
1R = **114-0197**	10R = **114-0201**	47R = **114-0205**	330R = **114-0210**	4K7 = **114-0215**
2R2 = **114-0198**	12R = **114-0202**	56R = **114-0207**	680R = **114-0211**	6K8 = **114-0216**
3R9 = **114-0199**	15R = **114-0203**	82R = **114-0208**	1K = **114-0212**	10K = **114-0217**

Price Each

Order Code	1+	10+	50+	100+	250+	500+
All Values ●						

50 Watt

Power rating (Pr) @ 25°C		Dielectric strength	2000Vrms
with heatsink	50W	Limiting element Voltage	300V
without heatsink	50W	Thermal resistance	2.6°C/W
Resistance Tolerance	±5%	Overload capacity	2 x pr for 5 secs
Operating temperature	-55°C to +155°C		

Stocked in the following OHMIC Values:

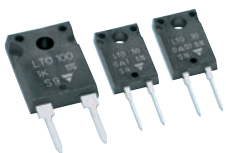
0R1 = **114-0219**	4R7 = **114-0225**	22R = **114-0229**	330R = **114-0235**	2K7 = **114-0239**
1R = **114-0221**	10R = **114-0226**	47R = **114-0230**	680R = **114-0236**	4K7 = **114-0240**
2R2 = **114-0223**	12R = **114-0227**	56R = **114-0232**	1K = **114-0237**	10K = **114-0242**
3R9 = **114-0224**	15R = **114-0228**	100R = **114-0234**	1K5 = **114-0238**	

207312

Price Each

Order Code	1+	10+	50+	100+	250+	500+
Values OR1 to 4R7 ●						
Values 10R to 10K ●						

LTO Series



- Direct mounting ceramic on heatsink
- Non Inductive
- Isolated case

Series	LTO 30 Series	LTO 50 Series	LTO 100 Series
Power	30W	50W	100W
Temperature Coefficient	150ppm/°C	150ppm/°C	150ppm/°C
Temperature Range	-55 to +150°C	-55 to +150°C	-55 to +175°C
Voltage	250V	250V	375V
Dimension (mm)	L = 16.2, W = 10.4, D = 3.2 (LTO 30 & 50 Series)		L = 20.7, W = 15.76, D = 5 (LTO 100 Series)

LTO 30 Series - 5% - TO-220 Case Size

Value	Order Code	Value	Order Code	Value	Order Code	Value	Order Code
0R01	**956-6872**	0R068	**956-6929**	4R7	**956-6970**	47R	**956-7020**
0R015	**956-6880**	0R1	**956-6937**	5R	**956-6988**	100R	**956-7038**
0R022	**956-6899**	0R47	**956-6945**	10R	**956-6996**	1K	**956-7046**
0R047	**956-6902**	1R	**956-6953**	15R	**956-7003**	10K	**956-7054**
0R05	**956-6910**	2R2	**956-6961**	22R	**956-7011**		

LTO 50 Series - 5% - TO-220 Case Size

Value	Order Code	Value	Order Code	Value	Order Code	Value	Order Code
0R01	**956-7062**	0R47	**956-7127**	5R	**956-7160**	47R	**956-7194**
0R022	**956-7070**	1R	**956-7135**	10R	**956-7178**	100R	**956-7208**
0R05	**956-7097**	2R2	**956-7143**	22R	**956-7186**	1K	**956-7216**
0R1	**956-7119**	4R7	**956-7151**				

LTO 100 Series - 5% - TO-247 Case Size

Value	Order Code	Value	Order Code	Value	Order Code	Value	Order Code
0R015	956-7240	1R	956-7291	10R	956-7313	100R	956-7330
0R1	956-7283	4R7	956-7305	15R	956-7321	1K	956-7348

LTO 30 Series - 1% - TO-220 Case Size

Value	Order Code	Value	Order Code	Value	Order Code	Value	Order Code	Value	Order Code
0R01	**135-7059**	0R05	**135-7064**	1R	**135-7068**	10R	**135-7072**	47R	**135-7076**
0R015	**135-7060**	0R068	**135-7065**	2R2	**135-7069**	15R	**135-7073**	100R	**135-7077**
0R022	**135-7061**	0R1	**135-7066**	4R7	**135-7070**	22R	**135-7075**	10K	**135-7079**
0R047	**135-7063**	0R47	**135-7067**	5R	**135-7071**				

LTO 50 Series - 1% - TO-220 Case Size

Value	Order Code	Value	Order Code	Value	Order Code	Value	Order Code	Value	Order Code
0R01	**135-7080**	0R068	**135-7084**	2R2	**135-7090**	10R	**135-7093**	100R	**135-7097**
0R022	**135-7081**	0R1	**135-7085**	4R7	**135-7091**	22R	**135-7094**	1K	**135-7099**
0R047	**135-7082**	0R47	**135-7087**	5R	**135-7092**	47R	**135-7096**	10K	**135-7100**
0R05	**135-7083**	1R	**135-7089**						

LTO 100 Series - 1% - TO-247 Case Size

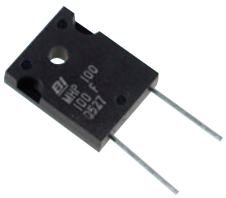
Value	Order Code	Value	Order Code	Value	Order Code	Value	Order Code	Value	Order Code
0R015	**135-7101**	0R05	**135-7105**	4R7	**135-7108**	15R	**135-7110**	1K	**135-7112**
0R022	**135-7102**	0R1	**135-7106**	10R	**135-7109**	100R	**135-7111**	10K	**135-7113**
0R047	**135-7103**	1R	**135-7107**						

RoHS ● Compliant ▲ Non-compliant

411627

Order Code	Price Each 1+	10+	50+	100+	250+
5%					
All LTO 30 Values					
All LTO 50 Values ●					
All LTO 100 Values ●					
1%					
All LTO 30 Values ●					
All LTO 50 Values ●					
All LTO 100 Values ●					

100 & 140 Watt - MHP Series TO-247 Package



- Extremely Low thermal resistance
- Small thin package for high density PCB installation
- Non-inductive, high power resistor.

Application includes: AC motor control, electronic load and drive circuits, Industrial PC modules (IPM) and measurement systems.

Voltage rating	700V	Temperature coefficient	50ppm/°C (10-100Ω)
Resistance tolerance	±1%		100ppm/°C (0.22-4.7Ω)
Operating temperature	-55°C to +155°C		

Stocked in the following OHMIC Values:

100W

0R22 = **111-4423** 2R = **111-4427** 10R = **111-4420** 100R = **111-4421**
1R = **111-4425** 4R7 = **111-4428** 50R = **111-4422**

140W

0R22 = **111-4430** 1R = **111-4431** 100R = **111-4429**

423676

Order Code	Price Each 1+	50+	250+	500+	1K+
100W - All Values ●					
140W - All Values ●					

25 & 50 Watt – RCH Series

- Non-inductive thick film technology
- Audio and high frequency applications
- High power rating
- High overload capabilities
- High stability

25 Watt

Power rating @ 25°C		Dielectric strength	3500Vrms
with 1°C/W heatsink	25W	Insulation resistance	10^6MΩ
without heatsink	4W	Limiting element Voltage	550Vrms
Resistance Tolerance	±5%	Maximum overload voltage	1100Vrms
Operating temperature	-55°C to +125°C	Thermal resistance	1.4°C/W

Dimensions:
L=28, W=14, Height above PCB=15
Fixing centres=18.3 x 19.8, Hole dia.=3.2

Stocked in the following OHMIC Values:

0R33 = **171-4046** 15R = **171-4051** 100R = **114-1506** 1K2 = **171-4057**
0R47 = **171-4047** 22R = **114-1504** 150R = **171-4056** 3K3 = **171-4058**
1R5 = **171-4048** 33R = **171-4052** 220R = **114-1507** 6K8 = **171-4059**
3R3 = **171-4049** 47R = **114-1505** 330R = **114-1509** 10K = **114-1515**
5R6 = **171-4050** 56R = **171-4054** 680R = **114-1512** 15K = **171-4060**
10R = **114-1503** 68R = **171-4055** 1K = **114-1513**

Order Code	Price Each 1+	20+	50+	100+	500+
All Values ●					

50 Watt

Power rating @ 25°C		Dielectric strength	3500Vrms
with 1°C/W heatsink	50W	Insulation resistance	10^6MΩ
without heatsink	5.5W	Limiting element Voltage	1285Vrms
Resistance Tolerance	±5%	Maximum overload voltage	2500Vrms
Operating temperature	-55°C to +125°C	Thermal resistance	0.8°C/W

Dimensions:
L=47.8, W=15.5, Height above PCB=15
Fixing centres=39.7 x 21.4, Hole dia.=3.2

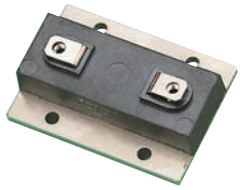
Stocked in the following OHMIC Values:

0R33 = **171-4061** 6R8 = **114-1518** 100R = **114-1523** 1K2 = **171-4076**
0R68 = **171-4062** 10R = **114-1519** 150R = **171-4073** 2K2 = **114-1528**
1R = **114-1517** 15R = **171-4069** 220R = **114-1524** 3K3 = **171-4078**
1R5 = **171-4063** 22R = **114-1520** 330R = **171-4074** 4K7 = **114-1529**
2R2 = **171-4064** 33R = **171-4070** 470R = **114-1525** 10K = **114-1530**
3R3 = **171-4066** 47R = **114-1522** 560R = **171-4075** 15K = **171-4079**
4R7 = **171-4067** 56R = **171-4071** 680R = **114-1526** 22K = **114-1531**
5R6 = **171-4068** 68R = **171-4072** 1K = **114-1527**

207315

Order Code	Price Each 1+	20+	50+	100+	500+
All Values					

100 Watt – RPH Series



- Non-inductive thick film technology
- High power rating
- Low thermal radiation
- High overload capabilities
- Screw terminals

L=65.5, W=46.7, Height above PCB=21.6
Fixing centres=35x37, Hole dia.=4.2

Power rating @ 25°C		Dielectric strength	5000Vrms
with 0.45°C/W heatsink	100W	Limiting element voltage	1900Vrms
without heatsink	10W	Insulation resistance	>10^6MΩ
Resistance tolerance	±5%	Thermal resistance	0.55°C/W
Operating temperature	-55°C to +125°C	Overload capacity	4 x Pr for 5 secs

Stocked in the following OHMIC Values:

0R1 = **114-1532** 4R7 = **114-1536** 22R = **114-1539** 100R = **114-1542** 1K = **114-1546**
1R = **114-1534** 6R8 = **114-1537** 33R = **114-1540** 470R = **114-1544** 4K7 = **114-1547**
2R2 = **114-1535** 10R = **114-1538** 47R = **114-1541**

207314

Order Code	Price Each 1+	10+	50+	100+
All Values ●				

BDS 100 Watt

100 watt

- Non-inductive thick film power resistors
- Cermet film on high purity aluminia
- Bonded on a copper heatsink cased in moulded epoxy
- Values below 1R have four terminals for voltage monitoring

100 Watt

Power rating with 0.7° c/w heatsink	100W	Inductance	Virtually non Inductive
Power rating without heatsink	10W	Dimensions:	
Resistance tolerance	±10%	L=38, W=25.5, Height above PCB=25.4	
Max working voltage	500V d.c	Fixing centres=30, Hole dia.=4.5	
Temperature coefficient	150 ppm/°C		

Stocked in the following OHMIC Values:

2R2 = **117-4487** 10R = **117-4490** 47R = **117-4492** 100R = **117-4494** 470R = **117-4498**
4R7 = **117-4488** 22R = **117-4491** 68R = **117-4493** 150R = **117-4495** 1K = **117-4500**

207250

100 Watt Order Code	Price Each 1+	25+	50+	100+
All Values ●				

100 & 200 Watt – RTOP Series

SOT227B Package

- Non-inductive thick film technology.
- High power rating
- Low thermal radiation
- High dielectric strength
- Integrated base avoids mounting stress, optimises resistor reliability
- Air abrading for improved stability and overload capability

L = 38, W = 25, Height above PCB = 12.5
Fixing centres = 30, Hole Dia. = 4.2

100 Watt

Power rating (Pr) @ 25°C	100W	Insulation resistance	>10^6MΩ
with heatsink	100W	Limiting element voltage	1500Vrms
without heatsink	100W	Thermal resistance	1°C/W
Resistance Tolerance	±5%	Overload capability	2.5 x pr for 5 secs
Operating temperature	-55°C to +125°C	Terminals	M4x6 screw terminals

Stocked in the following OHMIC Values:

10R = **114-1552** 100R = **114-1554** 470R = **121-9776** 1K = **114-1555**
47R = **114-1553**

Order Code	Price Each 1+	10+	50+	100+
All Values ●				

200 Watt

Power rating (Pr) @ 25°C		Insulation resistance	>10^6MΩ
with heatsink	200W	Limiting element voltage	1500Vrms
without heatsink	200W	Thermal resistance	0.5°C/W
Resistance Tolerance	±5%	Overload capability	2.5 x pr for 5 secs
Operating temperature	-55°C to +125°C	Terminals	M4x6 screw terminals

Stocked in the following OHMIC Values:

1R = **114-1560** 10R = **114-1562** 100R = **114-1563** 470R = **114-1564**
4R7 = **114-1561**

207313

Order Code	Price Each 1+	10+	50+	100+
All Values ●				

Power - Thick Film - continued

250 & 500 Watt - RPS Series

- Non-inductive thick film technology
- High power rating
- Low thermal radiation
- High overload capability
- Integral base for easy mounting and internal thermal junction

L = 73, W = 57
Fixing Centres = 57, Hole dia. = 4.0

250 Watt

Power rating (Pr) @ 70°C with heatsink	250W	Dielectric strength	12kVrms
Resistance tolerance	±5%	Limiting element voltage	5kVrms
Operating temperature	-55°C to +125°C	Thermal resistance	0.22°C/W
Insulation resistance	>10^6MΩ	Overload capability	4xPr for 10 secs
		Terminals	M4 screw terminals

Stocked in the following OHMIC Values:

1R = **114-1565** 10R = **114-1566** 100R = **114-1567** 220R = **114-1568**

250 Watt	Price Each			
Order Code	1+	10+	50+	100+
All Values ●				

500 Watt

Power rating (Pr) @ 70°C with heatsink	500W	Dielectric strength	12kVrms
Resistance tolerance	±5%	Limiting element voltage	5kVrms
Operating temperature	-55°C to +125°C	Thermal resistance	0.11°C/W
Insulation resistance	>10^6MΩ	Terminals	M4 screw terminals

Stocked in the following OHMIC Values:

1R = **114-1571** 10R = **114-1573** 47R = **114-1575** 470R = **114-1577**
4R7 = **114-1572** 22R = **114-1574** 100R = **114-1576** 1K = **114-1578**

207309

500 Watt	Price Each			
Order Code	1+	10+	50+	100+
All Values ●				

LPS Series Power Resistors

NEW

- 300W, 600W & 800W at 85 °C case temperature
- Non inductive
- Easy mounting
- Low thermal radiation of the case

L=60mm, W=64.7mm, D=25.2mm

	LPS 300	LPS 600	LPS 800	LPS 1100
Resistance Tolerance	± 5%	± 5%	± 5%	± 5%
Power Rating	300W	600W	800W	1.1kW
Voltage Rating	5kV	5kV	5kV	12kV
Temperature coefficient:		R ≤ 1U: ± 500 ppm/°C 1U < R ≤ 10U: ± 300 ppm/°C 10U < R: ± 150 ppm/°C		
Operating temperature range	-55°C to +120°C	-55°C to +155°C	-55°C to +175°C	-55°C to +200°C

LPS300 Series

Stocked in the following OHMIC values:

1R = **177-1773** 10R = **177-1775** 100R = **177-1777** 470R = **177-1778**
4R7 = **177-1774** 47R = **177-1776**

LPS600 Series

Stocked in the following OHMIC values:

1R = **177-1779** 10R = **177-1781** 100R = **177-1783** 470R = **177-1785**
4R7 = **177-1780** 47R = **177-1782**

LPS800 Series

Stocked in the following OHMIC values:

1R = **177-1786** 10R = **177-1788** 100R = **177-1790** 470R = **177-1791**
4R7 = **177-1787** 47R = **177-1789**

LPS1100 Series

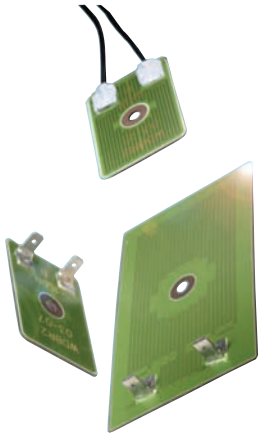
Stocked in the following OHMIC values:

1R = **209-8087** 10R = **209-8091** 100R = **209-8093** 470R = **209-8094**
4R7 = **209-8089** 47R = **209-8092**

549284

	Price Each		
Order Code	1+	10+	25+
LPS300 All Values ●			
LPS600 All Values ●			
LPS800 All Values ●			
LPS1100 All Values ●			

WDBR Series



- Ultra low profile thick film on steel planar power resistors
- High power rating - 1.5kW, 2kW, 3kW, 5kW and 7kW versions
- High pulse handling capability
- Will 'failsafe' (open circuit) under overload (fault) conditions while maintaining minimum 1kV dielectric withstand voltage
- Applications include dynamic motor braking and industrial welding

WDBR1 L = 49.3, W = 35.85, D = 0.9mm
WDBR2 L = 60.96, W = 40.64, D = 0.9mm
WDBR3 L = 101.6, W = 70, D = 0.9mm
WDBR5 L = 122, W = 70, D = 0.9mm
WDBR7 L = 152.4, W = 101.6, D = 1.5mm

1.5 kWatt - WDBR1

Max Pulse Power	180W	Resistance tolerance	±10%
Max Continuous Load	1.5kW	Max working voltage	2500V

Stocked in the following OHMIC Values:

12R = **129-2591** 22R = **129-2592** 47R = **129-2593** 100R = **129-2594** 150R = **129-2595**

2 kWatt - WDBR2

Max Pulse Power	200W	Resistance tolerance	±10%
Max Continuous Load	2kW	Max working voltage	2500V

Stocked in the following OHMIC Values:

12R = **129-2597** 22R = **129-2598** 47R = **129-2599** 100R = **129-2600** 150R = **129-2601**

3 kWatt - WDBR3

Max Pulse Power	260W	Resistance tolerance	±10%
Max Continuous Load	3kW	Max working voltage	2500V

Stocked in the following OHMIC Values:

12R = **129-2603** 22R = **129-2604** 47R = **129-2605** 100R = **129-2606** 150R = **129-2607**

5 kWatt - WDBR5

Max Pulse Power	270W	Resistance tolerance	± 10%
Max Continuous Load	5kW	Max working voltage	2.5kV

Stocked in the following OHMIC Values:

12R = **169-5675** 22R = **169-5676** 47R = **169-5677** 100R = **169-5679** 150R = **169-5681**

7 kWatt - WDBR7

Max Pulse Power	280W	Resistance tolerance	±10%
Max Continous Load	7kW	Max working voltage	2500V

Stocked in the following OHMIC Values:

47R = **129-2608** 100R = **129-2609** 150R = **129-2610**

451987

		Price Each			
Power rating	Order Code	1+	5+	10+	25+
1.5 kW	All Values ●				
2 kW	All Values ●				
3 kW	All Values ●				
5 kW	All Values ●				
7 kW	All Values ●				

Power - Ceramic Cased

A completely fire-proof ceramic cased resistor, the resistance wire being wound on a fibre glass core and end filled with fire-proof inorganic material. Suitable for either conventional or PCB mounting. The maximum working voltage is √PxR, where P=Power Rating and R=Resistance

207165

SQM5 Series - 5 Watt

Wirewound and Metal Oxide Element

A high purity ceramic rod, with force fit end caps onto which is wound a wire element: or a deposited metal oxide film (depending on value). The element is fitted into a ceramic case with fire-proof insulation cement.

Power Rating	5W
Voltage Rating	350V
Resistance Tolerance	± 5%
Operating Temperature	-55°C to +155°C

Stocked in the following OHMIC Values:

Wirewound Element

0R1 = **168-7933** 0R47 = **168-7936** 3R3 = **168-7939** 10R = **168-7942** 33R = **168-7946**
0R22 = **168-7934** 1R = **168-7937** 4R7 = **168-7940** 15R = **168-7944** 47R = **168-7947**
0R33 = **168-7935** 2R2 = **168-7938** 6R8 = **168-7941** 22R = **168-7945**

Metal Oxide Element

68R = **168-7948** 100R = **168-7949** 130R = **168-7950** 150R = **168-7951** 220R = **168-7952**

RoHS ● Compliant ▲ Non-compliant

470R = **168-7953**	1K5 = **168-7957**	6K8 = **168-7960**	15K = **168-7962**	33K = **168-7964**
680R = **168-7954**	2K2 = **168-7958**	10K = **168-7961**	22K = **168-7963**	47K = **168-7965**
1K = **168-7956**	4K7 = **168-7959**			

Mftrs. List No. SQM5 + OHMIC Value

528894

Order Code	Price Each 5+	50+	100+	500+	1K+
All Values ●					

7 Watt-SQM7 Series – Vertical Mounting

Tyco Electronics

Wirewound and Power Oxide Element

- Vertical mounting, wirewound or power oxide
- Compact size for PCB space saver
- Low values available for current sensing applications

Power rating @ 70°C	7W
Maximum working voltage	500V
Operating temperature	-55°C to +275°C
Resistance tolerance	±5%
Temperature coefficient	300ppm/°C max

H=40, W=14, D=10, Lead length (usable)=3.5, Lead pitch=5, Lead dia.=0.8

Stocked in the following OHMIC Values:

Wirewound Element

0R1 = **987-803**	1R = **987-852**	6R8 = **987-890**	33R = **987-931**	100R = **987-967**
0R22 = **987-815**	2R2 = **987-864**	10R = **987-906**	47R = **987-943**	130R = **987-979**
0R33 = **987-827**	3R3 = **987-876**	15R = **987-918**	68R = **987-955**	150R = **987-980**
0R68 = **987-840**	4R7 = **987-888**	22R = **987-920**		

Power Oxide Element

220R = **987-992**	1K = **988-029**	6K8 = **988-066**	15K = **988-080**	33K = **988-108**
470R = **988-005**	2K2 = **988-042**	10K = **988-078**	22K = **988-091**	47K = **988-110**
680R = **988-017**	4K7 = **988-054**			

Mftrs. List No. SQM7 + OHMIC Value

207272

Order Code	Price Each 5+	50+	100+	500+	1K+
All Values ●					

SQM7 Series - 7 Watt

TT electronics Welwyn Components

Wirewound and Metal Oxide Element

A high purity ceramic rod, with force fit end caps onto which is wound a wire element: or a deposited metal oxide film (depending on value). The element is fitted into a ceramic case with fireproof insulation cement.

Power Rating	7W
Voltage Rating	500V
Resistance Tolerance	± 5%
Operating Temperature	-55°C to +155°C

Stocked in the following OHMIC Values:

Wirewound Element

0R1 = **168-7966**	2R2 = **168-7972**	10R = **168-7976**	47R = **168-7982**	130R = **168-7986**
0R2 = **168-7968**	3R3 = **168-7973**	15R = **168-7977**	62R = **168-7983**	150R = **168-7987**
0R33 = **168-7969**	4R7 = **168-7974**	22R = **168-7978**	68R = **168-7984**	220R = **168-7988**
0R47 = **168-7970**	6R8 = **168-7975**	33R = **168-7981**	100R = **168-7985**	470R = **168-7989**
1R = **168-7971**				

Metal Oxide Element

680R = **168-7990**	2K2 = **168-7993**	6K8 = **168-7995**	15K = **168-7997**	33K = **168-7999**
1K = **168-7991**	4K7 = **168-7994**	10K = **168-7996**	22K = **168-7998**	47K = **168-8000**

Mftrs. List No. SQM7 + OHMIC Value

528895

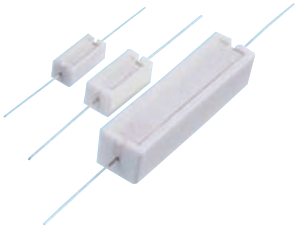
Order Code	Price Each 5+	50+	100+	500+	1K+
All Values ●					

FREE GLOBAL LEGISLATION SUPPORT

RoHS, REACH, WEEE, ErP, Batteries Directive - latest updates, free white papers and live online Q&A at **element14.com/legislation**

SQP Series - 7 Watt

TT electronics Welwyn Components



- Wirewound metal oxide resistors in a ceramic case
- High overload capability

L=26, W=10, D=10, Lead length = 35. Lead dia=0.75

Power rating @70°C	7W	Temperature Coefficient	≤0.47Ω = ±200ppm/°C
Resistance Tolerance	±5%		≥0.68Ω = ±200ppm/°C
	-55°C to +155°C	Limiting Element Voltage	350W

Stocked in the following OHMIC Values:

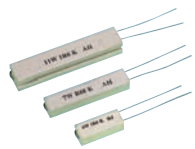
0R1 = **129-2512**	1R5 = **129-2520**	6R8 = **129-2529**	33R = **129-2538**
0R22 = **129-2513**	1R8 = **129-2521**	8R2 = **129-2530**	39R = **129-2539**
0R33 = **129-2514**	2R2 = **129-2522**	10R = **129-2531**	47R = **129-2540**
0R47 = **129-2515**	2R7 = **129-2524**	12R = **129-2532**	56R = **129-2541**
0R69 = **129-2516**	3R3 = **129-2525**	15R = **129-2533**	68R = **129-2542**
0R82 = **129-2517**	3R9 = **129-2526**	18R = **129-2534**	82R = **129-2543**
1R = **129-2518**	4R7 = **129-2527**	22R = **129-2536**	100R = **129-2544**
1R2 = **129-2519**	5R6 = **129-2528**	27R = **129-2537**	

451984

Order Code	Price Each 5+	25+	100+	500+	1K+
All Values ●					

SBCHE Series — Ceramic Case

Tyco Electronics



- Suitable for vertical and horizontal mounting
- Axial leads

4 Watt: L=20 (10K=25), W=7.3, D=8.1, Lead Dia=0.8
7 Watt: L=38, W=7.0, D=8.0, Lead Dia=0.8
11 Watt: L=50, W=9.0, D=10.0, Lead Dia=0.8
17 Watt: L=75, W=9.3, D=10.3, Lead Dia=0.8

4 Watt - SBCHE4 Series

Power rating	4W @ 25°C	Temperature coefficient	<22R ±400ppm/°C
Note 10K	5W @ 25°C		>18R ± 200 ppm/°C
Resistance tolerance	<4.7ohm ±10%	Operating temperature	-55°C to +250°C
	>6.8R ±5%		

Stocked in the following OHMIC Values:

1R = **117-4321**	6R8 = **117-4326**	47R = **117-4330**	330R = **117-4336**	2K2 = **117-4341**
1R5 = **117-4322**	10R = **117-4327**	68R = **117-4331**	470R = **117-4337**	3K3 = **117-4342**
2R2 = **117-4323**	15R = **117-4328**	100R = **117-4333**	680R = **117-4338**	4K7 = **117-4343**
3R3 = **117-4324**	22R = **117-4442**	150R = **117-4334**	1K = **117-4339**	6K8 = **117-4345**
4R7 = **117-4325**	33R = **117-4329**	220R = **117-4335**	1K5 = **117-4340**	10K = **117-4346**

207248

4 Watt

Order Code	Price Each 5+	50+	100+	500+
Values 1R to 1K ●				
Values 1K5 to 10K ●				

7 Watt – SBCHE6 Series

Power rating	7W @ 25°C	Temperature coefficient	<22ohm ±400ppm/°C
Resistance tolerance	<5R6 ±10%		>18ohm ±400ppm/°C250°C
	>6R8 ±5%5%		

Stocked in the following OHMIC Values:

0R47 = **117-4347**	4R7 = **117-4360**	39R = **117-4373**	270R = **117-4384**	3K3 = **117-4397**
0R56 = **117-4348**	5R6 = **117-4361**	47R = **117-4374**	330R = **117-4385**	4K7 = **117-4399**
0R68 = **117-4349**	6R8 = **117-4362**	56R = **117-4375**	470R = **117-4387**	5K6 = **117-4402**
1R = **117-4351**	8R2 = **117-4363**	68R = **117-4376**	560R = **117-4388**	6K8 = **117-4404**
1R2 = **117-4352**	10R = **117-4364**	82R = **117-4377**	680R = **117-4389**	8K2 = **117-4405**
1R5 = **117-4353**	12R = **117-4365**	100R = **117-4378**	1K = **117-4390**	10K = **117-4406**
1R8 = **117-4354**	15R = **117-4366**	120R = **117-4379**	1K5 = **117-4392**	12K = **117-4407**
2R2 = **117-4355**	18R = **117-4367**	150R = **117-4380**	1K8 = **117-4394**	15K = **117-4408**
2R7 = **117-4357**	22R = **117-4369**	180R = **117-4382**	2K2 = **117-4395**	18K = **117-4409**
3R3 = **117-4358**	27R = **117-4371**	220R = **117-4383**	2K7 = **117-4396**	22K = **117-4410**
3R9 = **117-4359**	33R = **117-4372**			

207247

7 Watt

Order Code	Price Each 5+	50+	100+	500+
Values R47 to 1K ●				
Values 1K to 22K ●				

Power - Ceramic Cased - continued

11 Watt – SBCHE11 Series

Power rating	11W @ 25°C	Temperature coefficient	<22ohm 200ppm/°C
Resistance tolerance	<4.7 10%		>18ohm 400ppm/°C
	>6.8 5%		

Stocked in the following OHMIC Values:

1R = **117-4412**	10R = **117-4419**	100R = **117-4426**	680R = **117-4431**	4K7 = **117-4437**
1R5 = **117-4413**	15R = **117-4420**	150R = **117-4427**	1K = **117-4432**	6K8 = **117-4438**
2R2 = **117-4414**	22R = **117-4421**	220R = **117-4428**	1K5 = **117-4433**	10K = **117-4439**
3R3 = **117-4416**	33R = **117-4422**	330R = **117-4429**	2K2 = **117-4434**	15K = **117-4440**
4R7 = **117-4417**	47R = **117-4424**	470R = **117-4430**	3K3 = **117-4436**	22K = **117-4441**
6R8 = **117-4418**	68R = **117-4425**			

207251

11 Watt — **Price Each**

Order Code	5+	50+	100+	500+
Values 1R to 1K ●				
Values IK5 to 22K ●				

17 Watt – SBCHE15 Series

Power rating	17W @ 25°C	Temperature coefficient	< 400ppm/°C
Resistance tolerance	< 10%		> 200ppm/°C
	> 5%		

Stocked in the following OHMIC Values:

1R = **117-4454**	10R = **117-4463**	68R = **117-4468**	470R = **117-4474**	4K7 = **117-4480**
1R5 = **117-4455**	15R = **117-4464**	100R = **117-4469**	680R = **117-4475**	6K8 = **117-4481**
2R2 = **117-4456**	22R = **117-4465**	150R = **117-4470**	1K = **117-4476**	10K = **117-4482**
3R3 = **117-4458**	33R = **117-4466**	220R = **117-4471**	1K5 = **117-4477**	15K = **117-4483**
4R7 = **117-4461**	47R = **117-4467**	330R = **117-4473**	2K2 = **117-4478**	22K = **117-4485**
6R8 = **117-4462**				

207249

17 Watt — **Price Each**

Order Code	5+	50+	100+	500+
Values 1R to 1K●				
Values IK5 to 22K●				

Mounting Bracket for Ceramic Cased Wirewound

Tyco Electronics

Mounting bracket for supporting the SBCHE11 and 15 Series resistors in a vertical position.

207380

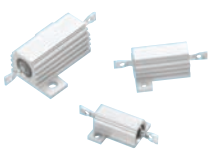
50 Per Pack — **Price Per Pack**

Order Code	1+	10+
104-500		

Power - Aluminium Clad

THS Series

Tyco Electronics



- Extremely stable, high quality wire wound resistors
- Established product with proven reliability
- Cost effective
- 10 to 50 Watts

Dimensions:

Series	H	W	L (Body)	L (Overall)	ø Fixing Holes
THS10	9	17	17	30	2.4
THS15	11	21	21	36.5	2.4
THS25	15	28	29	51.8	3.3
THS50	17	30	51	72.5	3.3

10 Watt – THS10 Series

Power rating @ 25°C			
with heatsink	W	Insulation resistance	MΩ
without heatsink	10W	Voltage rating	160V a.c.
Resistance tolerance	±5%	Operating temperature	-25°C to +165°C
Temperature coefficient	±50ppm/°C		
	>100R ±30ppm/°C		

0R05 = **125-9281**	1R2 = **125-9292**	10R = **125-9304**	75R = **125-9315**	560R = **125-9326**
0R1 = **125-9282**	1R8 = **125-9293**	12R = **125-9305**	82R = **125-9316**	680R = **125-9327**
0R15 = **125-9284**	2R = **125-9294**	15R = **125-9306**	100R = **125-9317**	1K = **125-9328**
0R18 = **125-9285**	2R2 = **125-9296**	22R = **125-9307**	120R = **125-9318**	1K5 = **125-9329**
0R22 = **125-9286**	2R7 = **125-9297**	27R = **125-9308**	150R = **125-9319**	2K2 = **125-9330**
0R33 = **125-9287**	3R3 = **125-9298**	39R = **125-9309**	220R = **125-9320**	3K3 = **125-9331**
0R39 = **125-9288**	3R9 = **125-9299**	47R = **125-9310**	270R = **125-9321**	4K7 = **125-9332**
0R47 = **125-9289**	4R7 = **125-9300**	50R = **125-9311**	330R = **125-9322**	5K6 = **125-9333**
0R5 = **125-9290**	5R = **125-9302**	56R = **125-9312**	470R = **125-9323**	6K8 = **125-9334**
1R = **125-9291**	6R8 = **125-9303**	68R = **125-9314**	500R = **125-9324**	10K = **125-9335**

Price Each

Order Code	1+	20+	100+	200+	500+
All Values ●					

15 Watt – THS15 Series

Power rating @ 25°C			
with heatsink	W	Insulation resistance	MΩ
without heatsink	15W	Voltage rating	265V a.c.
Resistance tolerance	±5%	Operating temperature	-25°C to +190°C
Temperature coefficient	±50ppm/°C		
	>100R ±30ppm/°C		

0R05 = **125-9336**	3R3 = **125-9347**	27R = **125-9359**	120R = **125-9369**	680R = **125-9379**
0R1 = **125-9338**	3R9 = **125-9348**	39R = **125-9360**	150R = **125-9370**	1K = **125-9380**
0R22 = **125-9339**	4R7 = **125-9351**	47R = **125-9361**	220R = **125-9371**	2K2 = **125-9381**
0R33 = **125-9340**	5R = **125-9352**	50R = **125-9363**	270R = **125-9372**	3K3 = **125-9382**
0R47 = **125-9341**	6R8 = **125-9353**	56R = **125-9364**	330R = **125-9375**	4K7 = **125-9383**
0R5 = **125-9342**	10R = **125-9355**	68R = **125-9365**	390R = **125-9376**	5K6 = **125-9384**
0R68 = **125-9343**	12R = **125-9356**	75R = **125-9366**	470R = **125-9377**	6K8 = **125-9385**
2R = **125-9345**	15R = **125-9357**	82R = **125-9367**	500R = **125-9378**	10K = **125-9387**
2R2 = **125-9346**	22R = **125-9358**	100R = **125-9368**		

Price Each

Order Code	1+	20+	100+	200+	500+
All Values ●					

25 Watt – THS25 Series

Power rating @ 25°C			
with heatsink	W	Insulation resistance	MΩ
without heatsink	25W	Voltage rating	550V a.c.
Resistance tolerance	±5%	Operating temperature	-25°C to +120°C
Temperature coefficient	±30ppm/°C		
	>100R ±30ppm/°C		

0R01 = **125-9388**	1R5 = **125-9402**	15R = **125-9415**	75R = **125-9426**	560R = **125-9438**
0R02 = **125-9389**	2R = **125-9403**	18R = **125-9417**	82R = **125-9427**	680R = **125-9439**
0R05 = **125-9390**	2R2 = **125-9405**	22R = **125-9418**	100R = **125-9429**	1K = **125-9440**
0R1 = **125-9391**	2R7 = **125-9406**	27R = **125-9419**	120R = **125-9431**	1K5 = **125-9442**
0R22 = **125-9393**	3R3 = **125-9407**	33R = **125-9420**	150R = **125-9432**	2K2 = **125-9443**
0R39 = **125-9395**	4R7 = **125-9408**	39R = **125-9421**	180R = **125-9433**	3K3 = **125-9444**
0R47 = **125-9396**	5R = **125-9409**	47R = **125-9422**	220R = **125-9434**	4K7 = **125-9445**
0R5 = **125-9397**	5R6 = **125-9411**	50R = **125-9423**	270R = **125-9435**	5K6 = **125-9446**
0R68 = **125-9399**	8R2 = **125-9412**	56R = **125-9424**	330R = **125-9436**	6K8 = **125-9447**
0R82 = **125-9400**	10R = **125-9413**	68R = **125-9425**	470R = **125-9437**	10K = **125-9448**
1R = **125-9401**	12R = **125-9414**			

Price Each

Order Code	1+	20+	100+	200+	500+
All Values ●					

50 Watt – THS50 Series

Power rating @ 25°C			
with heatsink	W	Insulation resistance	MΩ
without heatsink	50W	Voltage rating	1250V a.c.
Resistance tolerance	±5%	Operating temperature	-25°C to +250°C
Temperature coefficient	±50ppm/°C		
	>100R ±30ppm/°C		

0R01 = **125-9449**	1R8 = **125-9464**	15R = **125-9479**	120R = **125-9494**	1K = **125-9506**
0R02 = **125-9450**	2R = **125-9466**	18R = **125-9480**	150R = **125-9495**	1K5 = **125-9509**
0R05 = **125-9451**	2R2 = **125-9467**	22R = **125-9481**	180R = **125-9496**	2K2 = **125-9510**
0R1 = **125-9452**	2R7 = **125-9468**	27R = **125-9482**	220R = **125-9497**	3K3 = **125-9511**
0R15 = **125-9454**	3R3 = **125-9469**	33R = **125-9483**	270R = **125-9498**	4K7 = **125-9512**
0R22 = **125-9455**	3R9 = **125-9470**	39R = **125-9484**	330R = **125-9499**	5K6 = **125-9513**
0R33 = **125-9456**	4R7 = **125-9471**	47R = **125-9485**	390R = **125-9500**	6K8 = **125-9514**
0R47 = **125-9457**	5R = **125-9472**	50R = **125-9486**	470R = **125-9501**	10K = **125-9515**
0R5 = **125-9458**	5R6 = **125-9473**	56R = **125-9487**	500R = **125-9502**	22K = **125-9516**
0R68 = **125-9459**	6R8 = **125-9474**	68R = **125-9488**	560R = **125-9503**	33K = **125-9517**
1R = **125-9460**	8R2 = **125-9475**	75R = **125-9491**	680R = **125-9504**	47K = **125-9518**
1R2 = **125-9461**	10R = **125-9476**	82R = **125-9492**	820R = **125-9505**	50K = **125-9521**
1R5 = **125-9462**	12R = **125-9478**	100R = **125-9493**		

Price Each

Order Code	1+	20+	100+	200+	500+
All Values ●					

75 Watt – THS75 Series

Power rating @ 25°C			
with heatsink	W	Insulation resistance	MΩ
without heatsink	75W	Voltage rating	1.4kV a.c.
Resistance tolerance	± 5%	Operating temperature	-25°C to +190°C
Temperature coefficient	± 50ppm/°C		
	>100R ± 30ppm/°C		

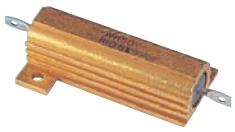
0R47 = **161-9302**	6R8 = **161-9307**	47R = **161-9311**	150R = **161-9314**	470R = **161-9318**
2R2 = **161-9303**	10R = **161-9308**	82R = **161-9312**	220R = **161-9315**	510R = **161-9319**
3R3 = **161-9304**	22R = **161-9309**	100R = **161-9313**	330R = **161-9316**	680R = **161-9320**
4R7 = **161-9306**	33R = **161-9310**			

451258

RoHS ● Compliant ▲ Non-compliant

Order Code	Price Each 1+	20+	50+	100+	500+
All Values ●					

WH Series



WH50

WH5

WH300

WH series aluminium clad resistors for applications where high wattage dissipation in a small space is required. The housing is hard anodised aluminium with terminals of solder coated copper.

The resistive element of tape or wire is wound on a high grade ceramic former and welded to axial terminations. The assembly is encapsulated in an anodised aluminium heat sink, which ensures good heat dispersal and a low hot-spot temperature. Power ratings specified derate linearly from full load at 20°C to zero at 200°C.

- Hard anodised aluminum clad wirewound resistors
- Complete environmental protection
- Manufactured to exacting standard **CECC 40203-006**
- 100% measurement of value
- Lot release testing of overload performance, isolation resistance and solderability
- Full stability testing
- 12 hour stabilisation burn-in

The WH series maximises the capability to withstand short, high energy pulses and overloads by using a physically larger resistor element than other similar products.

Dimensions:
WH5 H=9, W=8.9, L=17 (Body) Fixing centres=12.5 x 11.3, Termination L=6.3
WH10 H=11, W=12.4, L=21 (Body) Fixing centres=15.9 x 14.3, Termination L=7.4
WH25 H=15, W=14.5, L=29 (Body) Fixing centres=19.9 x 18.3, Termination L=10.4
WH50 H=16, W=16.1, L=51 (Body) Fixing centres=21.5 x 39.7, Termination L=10.4
WH100 H=24.1, W=88, L=47.5 (Body) Fixing centres=35 x 37, Termination L=11.4
WH200 H=41.8, W=145.7, L=72.5 (Body) Fixing centres=70 x 57.2, Termination L=21.15
WH300 H=41.8, W=184.4, L=72.5 (Body) Fixing centres=104 x 59, Termination L=22.5

10 Watt – WH5 Series

Power rating @ 20°C	10		
with heatsink	10W	Insulation resistance	MΩ
without heatsink	5.5W	Surface temperature rise (°C/Watt)	22.2
Tolerance	±5%	Voltage rating	160V ac160V
Temperature coefficient	±75ppm/°C(<10Ω) ±50ppm/°C(≥10Ω)	Operating temperature	-55°C to +275°C

Stocked in the following OHMIC Values:

0R1 =	**950-7698**	2R2 =	**950-7868**	22R =	**950-7825**	68R =	**950-8007**	1K5 =	**950-7787**
0R3 =	**950-7701**	2R7 =	**950-7876**	27R =	**950-7841**	100R =	**950-7736**	2K2 =	**950-7850**
0R33 =	**950-8023**	3R3 =	**950-7914**	33R =	**950-7892**	120R =	**950-7752**	680R =	**950-7990**
0R47 =	**950-7710**	4R7 =	**950-7957**	43R =	**950-7922**	150R =	**950-7760**	560R =	**950-7973**
0R68 =	**950-7728**	6R8 =	**950-8015**	47R =	**950-7949**	220R =	**950-7817**	3K3 =	**950-7906**
1R =	**950-7795**	10R =	**950-7744**	50R =	**950-7965**	270R =	**950-7833**	470R =	**950-7930**
1R5 =	**950-7809**	15R =	**950-7779**	56R =	**950-7981**	330R =	**950-7884**		

207417

Order Code	Price Each 1+	20+	50+	100+	500+
All Values ●					
Values 0R1 to 680R ●					
Values 1K5 to 3K3 ●					

15 Watt – WH10 Series

Power rating at 25°C			-55°C
with heatsink	15W	Insulation resistance	MΩ
without heatsink	8.0W	Surface temperature rise (°C/Watt)	19.4
Tolerance	±5%	Voltage rating	265V ac265V
	±75ppm/°C(<10Ω) ±50ppm/°C(≥10Ω)	Operating temperature	-55°C to +275°C

Stocked in the following OHMIC Values:

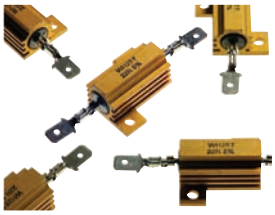
0R1 =	**950-6730**	3R =	**950-7019**	50R =	**950-7078**	330R =	**950-6993**
0R2 =	**950-6748**	3R3 =	**950-7027**	56R =	**950-7094**	470R =	**950-7035**
0R22 =	**950-6764**	4R7 =	**950-7060**	62R =	**950-7124**	560R =	**950-7086**
0R25 =	**950-6772**	5R =	**950-7116**	68R =	**950-7140**	680R =	**950-7132**
0R33 =	**950-6780**	10R =	**950-6829**	100R =	**950-6810**	1K =	**950-6870**
0R47 =	**950-6799**	12R =	**950-6845**	120R =	**950-6837**	1K5 =	**950-6888**
0R5 =	**950-6802**	15R =	**950-6861**	150R =	**950-6853**	2K2 =	**950-6969**
1R =	**950-6896**	20R =	**950-6918**	220R =	**950-6926**	3K3 =	**950-7000**
1R5 =	**950-6900**	22R =	**950-6934**	240R =	**950-6942**	4K7 =	**950-7051**
2R =	**950-6977**	47R =	**950-7043**	270R =	**950-6950**	5K =	**950-7108**
2R2 =	**950-6985**						

207425

Order Code	Price Each 1+	20+	50+	100+	500+
All Values ●					
Values 0R1 to 1K ●					
Values 1K5 to 5K ●					

Aluminium Housed Wirewound Resistor

WH Series



NEW

- All welded construction
- Suitable for severe environments
- Designed for excellent thermal conductivity to heat sink
- Spade terminal option

Case Size	Power Rating @ 70°C	Tolerance	Temperature Coefficient	Isolation Voltage
WH25	25W	± 5%	± 75ppm/°C	500V
WH50	50W	± 5%	± 75ppm/°C	1.25kV

WH25

Stocked in the following OHMIC Values:

1R = **208-0561** 10R = **208-0562** 100R = **208-0563** 1K = **208-0565**

Order Code	Price Each 1+	20+	50+	100+	500+
All Values ●					

WH50

Stocked in the following OHMIC Values:

1R = **208-0566** 10R = **208-0567** 100R = **208-0568** 1K = **208-0569**

652614

Order Code	Price Each 1+	20+	50+	100+	500+
All Values ●					

25 Watt – WH25 Series

Power rating @ 20°C			
with heatsink	25W	Insulation resistance	
without heatsink	12.5W	Surface temperature rise (°C/Watt)	13.3
Tolerance	±5%	Voltage rating	560V ac
Temperature coefficient	±75ppm/°C(<10Ω) ±50ppm/°C(≥10Ω)	Operating temperature	-55°C to +275°C

Stocked in the following OHMIC Values:

0R01 =	**950-7159**	1R5 =	**950-7388**	15R =	**950-7329**	82R =	**950-7663**	1K5 =	**950-7361**
0R05 =	**950-7167**	2R =	**950-7442**	16R =	**950-7337**	100R =	**950-7256**	2K2 =	**950-7434**
0R1 =	**950-7175**	2R2 =	**950-7450**	18R =	**950-7345**	120R =	**950-7280**	3K3 =	**950-7493**
0R15 =	**950-7183**	3R3 =	**950-7515**	22R =	**950-7400**	150R =	**950-7302**	3K9 =	**950-7507**
0R22 =	**950-7191**	3R9 =	**950-7523**	24R =	**950-7418**	220R =	**950-7396**	4K7 =	**950-7558**
0R24 =	**950-7205**	4R7 =	**950-7566**	27R =	**950-7426**	330R =	**950-7469**	5K6 =	**950-7604**
0R27 =	**950-7213**	5R =	**950-7612**	39R =	**950-7485**	470R =	**950-7531**	6K8 =	**950-7647**
0R33 =	**950-7221**	6R8 =	**950-7655**	50R =	**950-7574**	560R =	**950-7582**	8K2 =	**950-7671**
0R47 =	**950-7230**	10R =	**950-7272**	56R =	**950-7590**	680R =	**950-7620**	10K =	**950-7264**
0R56 =	**950-7248**	12R =	**950-7299**	68R =	**950-7639**	1K =	**950-7353**	15K =	**950-7310**
1R =	**950-7370**								

207163

Order Code	Price Each 1+	20+	50+	100+	500+
Values 0R01 to1K ●					
Values 1K5 to 15K ●					

50 Watt – WH50 Series

Power rating @ 20°C			
with heatsink	50W	Insulation resistance	MΩ
without heatsink	20W	Surface temperature rise (°C/Watt)	9.5
Tolerance	±5%	Voltage rating	1250V ac
Temperature coefficient	±75ppm/°C(<10Ω) ±50ppm/°C(≥10Ω)	Operating temperature	-55°C to +275°C

Stocked in the following OHMIC Values:

0R05 =	**950-8570**	4R7 =	**950-8449**	30R =	**950-8309**	220R =	**950-8210**	2K2 =	**950-8279**
0R1 =	**950-8031**	5R =	**950-8490**	33R =	**950-8333**	270R =	**950-8252**	3K3 =	**950-8368**
0R22 =	**950-8589**	5R6 =	**950-8503**	39R =	**950-8350**	330R =	**950-8317**	3K9 =	**950-8376**
0R33 =	**950-8597**	6R8 =	**950-8554**	47R =	**950-8422**	390R =	**950-8341**	4K7 =	**950-8430**
0R47 =	**950-8040**	10R =	**950-8082**	50R =	**950-8465**	470R =	**950-8392**	6K8 =	**950-8546**
0R5 =	**950-8058**	12R =	**950-8104**	56R =	**950-8481**	560R =	**950-8473**	10K =	**950-8074**
0R68 =	**950-8600**	15R =	**950-8120**	68R =	**950-8538**	620R =	**950-8511**	16K =	**950-8139**
1R =	**950-8180**	18R =	**950-8155**	100R =	**950-8066**	680R =	**950-8520**	22K =	**950-8228**
1R5 =	**950-8198**	20R =	**950-8201**	120R =	**950-8090**	820R =	**950-8562**	33K =	**950-8325**
2R =	**950-8287**	22R =	**950-8236**	150R =	**950-8112**	1K =	**950-8163**	47K =	**950-8406**
2R2 =	**950-8295**	24R =	**950-8244**	180R =	**950-8147**	1K2 =	**950-8171**	50K =	**950-8457**
3R3 =	**950-8384**	27R =	**950-8260**						

207174

Order Code	Price Each 1+	20+	50+	100+	500+
All Values ●					

Welwyn

100 Watt – WH100 Series

Power rating @ 25°C	100W	Limiting element voltage	1.9kV
Tolerance	± 5%	Isolation voltage	6360V
Temperature coefficient	± 100ppm/°C	Operating temperature	-55°C to +200°C

Stocked in the following OHMIC Values:

0R1 = **176-8194**	2R7 = **176-8201**	15R = **176-8209**	120R = **176-8215**	1K = **176-8225**
0R22 = **176-8195**	3R3 = **176-8202**	22R = **176-8210**	150R = **176-8216**	1K5 = **176-8226**
0R47 = **176-8196**	4R7 = **176-8203**	33R = **176-8211**	220R = **176-8218**	2K2 = **176-8227**
0R68 = **176-8197**	6R8 = **176-8204**	47R = **176-8212**	330R = **176-8222**	3K3 = **176-8228**
1R = **176-8198**	10R = **176-8205**	68R = **176-8213**	470R = **176-8223**	4K7 = **176-8229**
1R5 = **176-8199**	12R = **176-8208**	100R = **176-8214**	680R = **176-8224**	10K = **176-8230**
2R2 = **176-8200**				

548452

Order Code	Price Each 1+	20+	50+	100+	500+
All Values					

200 Watt – WH200 Series

Power rating @ 25°C	200W	Limiting element voltage	1.9kV
Tolerance	± 5%	Isolation voltage	7070V
Temperature coefficient	± 100ppm/°C	Operating temperature	-55°C to +200°C

Stocked in the following OHMIC Values:

0R1 = **176-8231**	3R3 = **176-8236**	22R = **176-8240**	100R = **176-8245**	330R = **176-8248**
0R47 = **176-8233**	4R7 = **176-8237**	33R = **176-8241**	150R = **176-8246**	470R = **176-8249**
1R = **176-8234**	6R8 = **176-8238**	47R = **176-8242**	220R = **176-8247**	680R = **176-8250**
2R2 = **176-8235**	10R = **176-8239**	82R = **176-8243**		

548458

Order Code	Price Each 1+	20+	50+	100+	500+
All Values ●					

300 Watt – WH300 Series

Power rating @ 25°C	300W	Limiting element voltage	2.5kV
Tolerance	± 5%	Isolation voltage	7070V
Temperature coefficient	± 100ppm/°C	Operating temperature	-55°C to +200°C

Stocked in the following OHMIC Values:

1R = **176-8251**	10R = **176-8254**	47R = **176-8258**	220R = **176-8261**	470R = **176-8263**
4R7 = **176-8252**	22R = **176-8255**	68R = **176-8259**	330R = **176-8262**	680R = **176-8264**
6R8 = **176-8253**	33R = **176-8257**	100R = **176-8260**		

548460

Order Code	Price Each 1+	20+	50+	100+	500+
All Values ●					

Power Resistors

NEW

TE connectivity

16, 25 and 50 Watt – HSA Series

Power rating @ 20°C	16W / 25W / 50W
Resistance tolerance	± 5%
Temperature coefficient	± 50ppm/°C

16W
Stocked in the following OHMIC Values:

10R = **205-8954**	47R = **205-8956**
33R = **205-8955**	100R **205-8957**

25W
Stocked in the following OHMIC Values:

0R1 = **205-8958**	2R2 = **200-9309**	15R = **200-9317**	220R = **205-8965**
0R15 = **205-8961**	3R3 = **200-9310**	18R = **200-9318**	330R = **205-8966**
0R22 = **200-9305**	4R7 = **200-9311**	22R = **200-9319**	470R = **200-9325**
0R33 = **205-8962**	5R6 = **200-9312**	33R = **200-9320**	2K2 = **200-9326**
0R47 = **205-8963**	6R8 = **205-8964**	47R = **200-9321**	4K7 = **200-9327**
0R68 = **200-9306**	8R2 = **200-9313**	68R = **200-9322**	5K6 = **200-9329**
1R = **200-9307**	10R = **200-9314**	100R = **200-9323**	10K = **200-9331**
1R5 = **200-9308**	12R = **200-9315**	150R = **200-9324**	680R = **205-8967**

50W
Stocked in the following OHMIC Values:

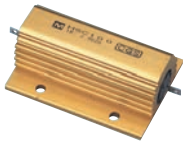
0R15 = **205-8968**	3R3 = **200-9342**	27R = **200-9354**	470R = **200-9366**
0R22 = **205-8969**	3R9 = **200-9343**	33R = **200-9355**	680R = **205-8970**
0R1 = **200-9332**	4R7 = **200-9344**	47R = **200-9356**	1K = **200-9367**
0R33 = **200-9333**	5R6 = **200-9345**	56R = **200-9357**	1K5 = **200-9368**
0R47 = **200-9334**	6R8 = **200-9346**	68R = **200-9358**	2K2 = **200-9369**
0R68 = **200-9335**	8R2 = **200-9347**	100R = **200-9359**	4K7 = **200-9370**
1R = **200-9336**	10R = **200-9348**	150R = **200-9360**	5K6 = **205-8971**
1R2 = **200-9337**	12R = **200-9349**	180R = **200-9361**	8K2 = **205-8973**
1R5 = **200-9338**	15R = **200-9350**	220R = **200-9362**	10K = **200-9371**
2R2 = **200-9339**	18R = **200-9351**	330R = **200-9363**	15K = **205-8974**
2R7 = **200-9340**	22R = **200-9352**	390R = **200-9364**	22K = **200-9372**

659955

Order Code	Price Each 1+	50+	100+	500+	1K+
16W **All Values** ●					
25W **All Values** ●					
50W **All Values** ●					

HSC Series

Tyco Electronics



Dimensions
HSC100: H= 26mm, W= 47.5mm, L= 65.5mm, Fixing Centres= 35 x 37
HSC150: H= 47.5mm, W= 98mm, L= 26mm, Fixing Centres= 58 x 37

100 Watt - HSC100 Series

Power Rating	100W		
Tolerance	± 5%	Insulation Resistance	
Temperature Coefficient	± 30ppm/°C >100R ± 30ppm/°C	Voltage Rating	1900V a.c
		Operating Temperature	-55°C to +250°C

Stocked in the following OHMIC values:

0R1 = **117-4279**	1R5 = **117-4283**	6R8 = **117-4287**	33R = **117-4293**	220R = **117-4297**
0R22 = **117-4280**	2R2 = **117-4284**	10R = **117-4288**	47R = **117-4294**	470R = **117-4298**
0R47 = **117-4281**	3R3 = **117-4285**	15R = **117-4291**	68R = **117-4295**	1K = **117-4299**
1R = **117-4282**	4R7 = **117-4286**	22R = **117-4292**	100R = **117-4296**	

150 Watt - HSC150 Series

Power Rating	150W		
Tolerance	± 5%	Insulation Resistance	
Temperature Coefficient	± 50ppm/°C >100R ± 30ppm/°C	Voltage Rating	1900V a.c
		Operating Temperature	-25°C to +250°C

Stocked in the following OHMIC values:

10R = **161-9326**	47R = **161-9331**	150R = **161-9334**	330R = **161-9336**	510R = **161-9338**
22R = **161-9327**	82R = **161-9332**	220R = **161-9335**	470R = **161-9337**	680R = **161-9339**
33R = **161-9328**	100R = **161-9333**			

628054

	Order Code	Price Each 1+	20+	50+	100+	500+
HSC100	**All Values** ●					
HSC150	**All Values** ●					

200 Watt – HSC200 Series

Power rating @ 20°C			
with heatsink	200W	Insulation resistance	MΩ
without heatsink	50W	Surface temperature rise (°C/Watt)	0.75
Resistance tolerance	±5%	Voltage rating	1900V ac
Temperature coefficient	±50ppm/°C >100R ±30ppm/°C	Operating temperature	-55°C to +250°C

0R1 = **272-668**	2R2 = **272-693**	22R = **272-735**	150R = **117-3990**	470R = **117-3991**
0R47 = **272-670**	6R8 = **272-711**	47R = **272-747**	220R = **272-772**	1K = **272-796**
1R = **272-681**	10R = **272-723**	100R = **272-759**		

Order Code	Price Each 1+	10+	25+	50+	100+
All Values ●					

250 Watt – HSC250 Series

Power rating @ 20°C			
with heatsink	150W	Insulation resistance	MΩ
without heatsink	60W	Voltage rating	2.5kV a.c.
Resistance tolerance	± 5%	Operating temperature	-25°C to +250°C
Temperature coefficient	± 50ppm/°C >100R± 30ppm/°C		

Stocked in the following OHMIC Values:

0R47 = **161-9340**	3R3 = **161-9343**	10R = **161-9346**	150R = **161-9352**	330R = **161-9355**
2R2 = **161-9341**	4R7 = **161-9344**	100R = **161-9351**	220R = **161-9353**	680R = **161-9358**

207197

Order Code	Price Each 1+	10+	25+	50+	100+
All Values ●					

300 Watt – HSC300 Series

Power rating @ 20°C		Resistance tolerance	±5%
with heatsink	300W	Temperature coefficient	±50ppm/°C
without heatsink	75W		>100R ±30ppm/°C

Stocked in the following OHMIC Values:

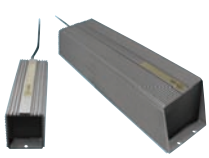
1R = **652-611**	6R8 = **652-635**	22R = **652-659**	100R = **652-672**
4R7 = **652-623**	10R = **652-647**	47R = **652-660**	330R = **652-684**

207234

Order Code	Price Each 1+	10+	25+	50+	100+
All Values ●					

CJT Series

Tyco Electronics



- Aluminium Enclosed Resistor
- Vibration Resistant

Dimensions: (mm)

Series	H	W	D	Lead Length	Lead Dia
CJT200	30	165	60	500	1.5
CJT500	30	335	60	500	1.5
CJT800	59	400	61	500	4
CJT1000	107	400	50	500	4
CJT1500	107	485	50	500	4

200 Watt – CJT200 Series

Power rating	200W	Resistance Tolerance	± 5%
Temperature coefficient	± 440ppm/°C	Resistor Element Max. Working Voltage	1kV

1R = **176-0891**	4R7 = **176-0893**	22R = **176-0895**	100R = **176-0897**	470R = **176-0899**
2R2 = **176-0892**	10R = **176-0894**	47R = **176-0896**	220R = **176-0898**	1K = **176-0900**

RoHS ● Compliant ▲ Non-compliant

Order Code	Price Each 1+	5+	10+	25+	+
All Values ●					

500 Watt – CJT500 Series

Power rating 500W | Resistance Tolerance ± 5%
Temperature coefficient ± 440ppm/°C | Resistor Element Max. Working Voltage 1kV

1R = **176-0901** 4R7 = **176-0903** 22R = **176-0905** 100R = **176-0908** 470R = **176-0910**
2R2 = **176-0902** 10R = **176-0904** 47R = **176-0906** 220R = **176-0909** 1K = **176-0911**

Order Code	Price Each 1+	5+	10+	25+	+
All Values ●					

800 Watt – CJT800 Series

Power rating 800W | Resistance Tolerance ± 5%
Temperature coefficient ± 440ppm/°C | Resistor Element Max. Working Voltage 1kV

1R = **176-0912** 4R7 = **176-0914** 22R = **176-0916** 100R = **176-0918** 470R = **176-0922**
2R2 = **176-0913** 10R = **176-0915** 47R = **176-0917** 220R = **176-0921** 1K = **176-0923**

Order Code	Price Each 1+	5+	10+	25+	+
All Values ●					

1000 Watt – CJT1000 Series

Power rating 1kW | Resistance Tolerance ± 5%
Temperature coefficient ± 440ppm/°C | Resistor Element Max. Working Voltage 1kV

1R = **176-0924** 4R7 = **176-0926** 22R = **176-0928** 100R = **176-0930** 470R = **176-0933**
2R2 = **176-0925** 10R = **176-0927** 47R = **176-0929** 220R = **176-0931** 1K = **176-0934**

Order Code	Price Each 1+	5+	10+	25+	+
All Values ●					

1500 Watt – CJT1500 Series

Power rating 1.5kW | Resistance Tolerance ± 5%
Temperature coefficient ± 440ppm/°C | Resistor Element Max. Working Voltage 1kV

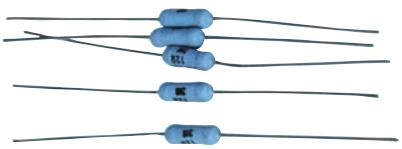
1R = **176-0935** 4R7 = **176-0937** 22R = **176-0939** 100R = **176-0941** 470R = **176-0943**
2R2 = **176-0936** 10R = **176-0938** 47R = **176-0940** 220R = **176-0942** 1K = **176-0945**

547124

Order Code	Price Each 1+	5+	10+	25+	+
All Values ●					

Power - Wirewound

Moulded Silicone Axial Wirewound Resistors



1W - L = 11.1, Dia. = 3.18, Lead length = 38.1, Lead dia. = 0.5
3W - L = 15.06, Dia. = 5.54, Lead length = 38.1, Lead dia. = 0.8
5W - L = 23.08, Dia. = 8.71, Lead length = 38.1, Lead dia. = 1

- Economical
- All welded construction
- Stable under high temperature conditions
- Applications include commercial, industrial and communications equipment

Temperature coefficient <1Ω: ±90ppm/°C; 1Ω to 9.99Ω: ±50ppm/°C; ≥10Ω: ±20ppm/°C
Tolerance ±1%
Overload power rating 1 + 3W = 5xPr for 5 secs; 5W = 10xPr for 5 secs
Operating temperature -55°C to + 275°C

1W

Stocked in the following OHMIC Values

0R1 = **130-6666** 0R15 = **130-6668** 0R33 = **130-6669** 0R5 = **130-6670** 1R = **130-6671**
0R13 = **130-6667**

Order Code	Price Each 1+	10+	100+	250+	500+
All Values ●					

3W

Stocked in the following OHMIC Values

2R = **130-6672** 5R = **130-6676** 20R = **130-6679**
3R = **130-6673** 10R = **130-6677** 25R = **130-6680**
4R = **130-6675** 15R = **130-6678**

Order Code	Price Each 1+	10+	100+	250+	500+
All Values ●					

5W

Stocked in the following OHMIC Values

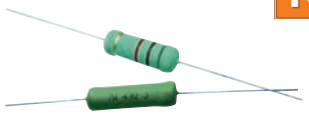
33R = **130-6681** 50R = **130-6683** 250R = **130-6685**
40R = **130-6682** 100R = **130-6684** 500R = **130-6687**

451902

Order Code	Price Each 1+	10+	100+	250+	500+
All Values ●					

Wirewound Fixed Resistors

NEW



- Green colour coating
- Excellent flame resistance

Temperature coefficient < 20 Ω: ±400ppm/°C; ≥ 20 Ω: ± 300ppm/°C

0.5W - Normal Size, ± 5%

Stocked in the following OHMIC Values:

0R25 = **190-3673** 25R = **190-3675** 47R = **190-3677** 130R = **190-3678** 470R = **190-3679**
10R = **190-3674**

Order Code	Price Each 25+	50+	100+	500+	1K+
All Values●					

1W - Normal Size, ± 5%

Stocked in the following OHMIC Values:

0R22 = **190-3680** 1R = **190-3684** 10R = **190-3689** 50R = **190-3694** 250R = **190-3697**
0R33 = **190-3681** 2R2 = **190-3685** 33R = **190-3691** 100R = **190-3695** 470R = **190-3698**
0R5 = **190-3682** 5R6 = **190-3686** 39R = **190-3692** 240R = **190-3696** 500R = **190-3699**
0R62 = **190-3683** 6R8 = **190-3687** 47R = **190-3693**

Order Code	Price Each 25+	50+	100+	500+	1K+
All Values●					

1W - Small Size, ± 5%

Stocked in the following OHMIC Values:

0R1 = **190-3700** 1R5 = **190-3708** 6R8 = **190-3715** 22R = **190-3723** 56R = **190-3729**
0R15 = **190-3701** 1R8 = **190-3709** 10R = **190-3716** 24R = **190-3724** 68R = **190-3730**
0R33 = **190-3702** 2R2 = **190-3710** 12R = **190-3717** 27R = **190-3725** 100R = **190-3732**
0R4 = **190-3703** 3R3 = **190-3711** 15R = **190-3719** 33R = **190-3726** 150R = **190-3733**
0R5 = **190-3704** 4R7 = **190-3712** 18R = **190-3721** 39R = **190-3727** 220R = **190-3734**
0R55 = **190-3705** 5R1 = **190-3713** 20R = **190-3722** 47R = **190-3728** 470R = **190-3735**
1R = **190-3707** 5R6 = **190-3714**

Order Code	Price Each 25+	50+	100+	500+	1K+
All Values●					

2W - Normal Size, ± 5%

Stocked in the following OHMIC Values:

0R1 = **190-3736** 4R7 = **190-3740** 15R = **190-3745** 100R = **190-3749** 200R = **190-3752**
0R33 = **190-3737** 5R6 = **190-3741** 22R = **190-3746** 120R = **190-3750** 270R = **190-3753**
0R47 = **190-3738** 6R8 = **190-3742** 33R = **190-3747** 130R = **190-3751** 1000R = **190-3754**
1R = **190-3739** 10R = **190-3744** 68R = **190-3748**

Order Code	Price Each 25+	50+	100+	500+	1K+
All Values●					

2W - Small Size, ± 5%

Stocked in the following OHMIC Values:

0R1 = **190-3756** 1R = **190-3764** 6R8 = **190-3773** 33R = **190-3783** 82R = **190-3790**
0R18 = **190-3757** 1R2 = **190-3765** 8R2 = **190-3774** 39R = **190-3784** 100R = **190-3791**
0R22 = **190-3758** 1R5 = **190-3766** 10R = **190-3775** 47R = **190-3785** 120R = **190-3793**
0R27 = **190-3759** 2R2 = **190-3768** 12R = **190-3776** 51R = **190-3786** 150R = **190-3794**
0R33 = **190-3760** 3R3 = **190-3769** 20R = **190-3777** 56R = **190-3787** 180R = **190-3795**
0R47 = **190-3761** 3R9 = **190-3770** 22R = **190-3778** 68R = **190-3788** 200R = **190-3796**
0R56 = **190-3762** 4R7 = **190-3771** 24R = **190-3781** 75R = **190-3789** 470R = **190-3797**
0R82 = **190-3763** 5R1 = **190-3772** 30R = **190-3782**

Order Code	Price Each 25+	50+	100+	500+	1K+
All Values●					

3W - Normal Size, ± 5%

Stocked in the following OHMIC Values:

0R1 = **190-3798** 5R = **190-3802** 18R = **190-3806** 51R = **190-3812** 390R = **190-3815**
0R15 = **190-3799** 5R6 = **190-3803** 33R = **190-3807** 100R = **190-3813** 470R = **190-3816**
0R22 = **190-3800** 6R8 = **190-3804** 39R = **190-3808** 220R = **190-3814** 1000R = **190-3817**
1R = **190-3801** 10R = **190-3805** 47R = **190-3811**

Order Code	Price Each 10+	50+	100+	500+	1K+
All Values●					

3W - Extra Small Size, ± 5%

Stocked in the following OHMIC Values:

0R1 = **190-3818** 10R = **190-3825** 120R = **190-3831** 400R = **190-3838** 1500R = **190-3843**
0R2 = **190-3819** 25R = **190-3826** 200R = **190-3832** 470R = **190-3839** 2000R = **190-3844**
0R5 = **190-3820** 40R = **190-3827** 220R = **190-3833** 500R = **190-3840** 3000R = **190-3845**
1R = **190-3821** 50R = **190-3828** 250R = **190-3835** 1000R = **190-3841** 4000R = **190-3847**
2R = **190-3823** 75R = **190-3829** 300R = **190-3836** 1200R = **190-3842** 5000R = **190-3848**
5R = **190-3824** 100R = **190-3830** 330R = **190-3837**

Order Code	Price Each 10+	50+	100+	500+	1K+
All Values●					

3W - Small Size, ± 5%

Stocked in the following OHMIC Values:

0R1 = **190-3849** 0R22 = **190-3854** 0R56 = **190-3861** 2R7 = **190-3866** 15R = **190-3872**
0R14 = **190-3850** 0R24 = **190-3855** 0R68 = **190-3862** 3R3 = **190-3867** 22R = **190-3873**
0R15 = **190-3851** 0R27 = **190-3856** 1R = **190-3863** 3R9 = **190-3868** 27R = **190-3874**
0R16 = **190-3852** 0R33 = **190-3857** 1R5 = **190-3864** 4R7 = **190-3869** 30R = **190-3875**
0R18 = **190-3853** 0R47 = **190-3859** 2R2 = **190-3865** 10R = **190-3870** 33R = **190-3876**

Wirewound Fixed Resistors - continued

Stocked in the following OHMIC Values: - continued

39R = **190-3877** 56R = **190-3879** 100R = **190-3881** 220R = **190-3884** 330R = **190-3885**
47R = **190-3878** 68R = **190-3880** 200R = **190-3882**

Order Code	Price Each 10+	50+	100+	500+	1K+
All Values●					

5W - Small Size, ± 5%

Stocked in the following OHMIC Values:

0R1 = **190-3886** 0R56 = **190-3898** 3R3 = **190-3909** 20R = **190-3920** 100R = **190-3931**
0R12 = **190-3887** 0R68 = **190-3899** 3R9 = **190-3910** 22R = **190-3921** 120R = **190-3932**
0R15 = **190-3888** 0R82 = **190-3900** 4R7 = **190-3911** 27R = **190-3922** 150R = **190-3933**
0R18 = **190-3889** 1R = **190-3902** 5R6 = **190-3912** 33R = **190-3923** 180R = **190-3934**
0R2 = **190-3890** 1R2 = **190-3903** 6R8 = **190-3914** 39R = **190-3924** 200R = **190-3935**
0R22 = **190-3891** 1R5 = **190-3904** 8R2 = **190-3915** 47R = **190-3926** 220R = **190-3936**
0R27 = **190-3892** 1R8 = **190-3905** 10R = **190-3916** 56R = **190-3927** 270R = **190-3938**
0R33 = **190-3893** 2R = **190-3906** 12R = **190-3917** 68R = **190-3928** 330R = **190-3939**
0R39 = **190-3894** 2R2 = **190-3907** 15R = **190-3918** 75R = **190-3929** 470R = **190-3940**
0R47 = **190-3896** 2R7 = **190-3908** 18R = **190-3919** 82R = **190-3930** 1000R = **190-3941**
0R5 = **190-3897**

Order Code	Price Each 10+	50+	100+	500+	1K+
All Values●					

7W - Small Size, ± 5%

Stocked in the following OHMIC Values:

3R3 = **190-3942** 10R = **190-3944** 33R = **190-3946** 100R = **190-3947** 150R = **190-3948**
5R = **190-3943** 27R = **190-3945**

Order Code	Price Each 5+	50+	100+	500+	1K+
All Values●					

7W - Small Size, ± 1%

Stocked in the following OHMIC Values:

1R = **190-3951** 50R = **190-3953** 150R = **190-3955** 200R = **190-3956** 250R = **190-3957**
10R = **190-3952** 100R = **190-3954**

Order Code	Price Each 5+	50+	100+	500+	1K+
All Values●					

10W - Small Size, ± 5%

Stocked in the following OHMIC Values:

3R3 = **190-3958** 10R = **190-3959**

Order Code	Price Each 5+	50+	100+	500+	1K+
All Values●					

10W - Small Size, ± 1%

Stocked in the following OHMIC Values:

1R = **190-3960** 10R = **190-3963** 15R = **190-3964** 30R = **190-3965** 100R = **190-3966**
2R = **190-3961**

637529

Order Code	Price Each 5+	50+	100+	500+	1K+
All Values●					

AC Series

VISHAY

Cemented Wirewound Resistors

AC01 - 4.3 x 11mm (dia x length)

AC03 - 4.8 x 13mm (dia x length)

AC05 - 7.5 x 18mm (dia x length)

- All welded construction
- Ceramic core
- Non-flammable cement coating
- High power dissipation in small volume
- Ideal for pulse application

AC01, 1W

Stocked in the following OHMIC Values:

0R1 = **173-5022** 3R3 = **173-5031** 27R = **173-5040** 120R = **173-5049** 560R = **173-5058**
0R15 = **173-5023** 4R7 = **173-5033** 33R = **173-5041** 150R = **173-5050** 680R = **173-5059**
0R22 = **173-5024** 6R8 = **173-5034** 39R = **173-5042** 180R = **173-5051** 820R = **173-5060**
0R33 = **173-5025** 10R = **173-5035** 47R = **173-5043** 220R = **173-5052** 1K = **173-5061**
0R47 = **173-5026** 12R = **173-5036** 56R = **173-5045** 270R = **173-5053** 1K2 = **173-5062**
0R68 = **173-5027** 15R = **173-5037** 68R = **173-5046** 330R = **173-5054** 1K5 = **173-5063**
1R = **173-5028** 18R = **173-5038** 82R = **173-5047** 390R = **173-5055** 1K8 = **173-5064**
1R5 = **173-5029** 22R = **173-5039** 100R = **173-5048** 470R = **173-5057** 2K2 = **173-5065**
2R2 = **173-5030**

AC03, 3W

Stocked in the following OHMIC Values:

0R1 = **173-5066** 3R3 = **173-5077** 33R = **173-5087** 180R = **173-5097** 1K = **173-5107**
0R15 = **173-5067** 4R7 = **173-5078** 39R = **173-5088** 220R = **173-5098** 1K2 = **173-5108**
0R22 = **173-5069** 6R8 = **173-5079** 47R = **173-5089** 270R = **173-5099** 1K5 = **173-5109**
0R33 = **173-5071** 10R = **173-5080** 56R = **173-5090** 330R = **173-5101** 1K8 = **173-5110**
0R47 = **173-5072** 12R = **173-5082** 68R = **173-5091** 390R = **173-5102** 2K2 = **173-5112**
0R68 = **173-5073** 15R = **173-5083** 82R = **173-5092** 470R = **173-5103** 2K7 = **173-5113**
1R = **173-5074** 18R = **173-5084** 100R = **173-5094** 560R = **173-5104** 3K3 = **173-5114**
1R5 = **173-5075** 22R = **173-5085** 120R = **173-5095** 680R = **173-5105** 3K9 = **173-5115**
2R2 = **173-5076** 27R = **173-5086** 150R = **173-5096** 820R = **173-5106** 4K7 = **173-5116**

AC05, 5W

Stocked in the following OHMIC Values:

0R1 = **173-5117** 4R7 = **173-5128** 47R = **173-5139** 330R = **173-5150** 2K2 = **173-5162**
0R15 = **173-5118** 6R8 = **173-5129** 56R = **173-5140** 390R = **173-5151** 2K7 = **173-5163**
0R22 = **173-5119** 10R = **173-5130** 68R = **173-5141** 470R = **173-5152** 3K3 = **173-5164**
0R33 = **173-5120** 12R = **173-5131** 82R = **173-5142** 560R = **173-5153** 3K9 = **173-5165**
0R47 = **173-5121** 15R = **173-5132** 100R = **173-5143** 680R = **173-5154** 4K7 = **173-5166**
0R68 = **173-5122** 18R = **173-5133** 120R = **173-5144** 820R = **173-5155** 5K6 = **173-5167**
1R = **173-5124** 22R = **173-5134** 150R = **173-5145** 1K = **173-5156** 6K8 = **173-5168**
1R5 = **173-5125** 27R = **173-5136** 180R = **173-5146** 1K2 = **173-5157** 8K2 = **173-5169**
2R2 = **173-5126** 33R = **173-5137** 220R = **173-5148** 1K5 = **173-5158** 10K = **173-5170**
3R3 = **173-5127** 39R = **173-5138** 270R = **173-5149** 1K8 = **173-5161**

540544

Order Code	Price Each 10+	50+	100+	500+	1K+
AC01 - All Values●					
AC03 - All Values●					
AC05 - All Values●					

WP-S Series

TT electronics Welwyn Components

2W WP2S & 4W WP4S

Supplied bandoliered on tape (WP2S box = 2500 pcs, WP4S = 2000pcs)

- Flameproof wirewound power resistors
- Enhanced pulse handling capability
- Small size for power rating

	Power rating @ 25°C	5s overload rating @ 25°C	Body Length (mm)	Body ∅ (mm)	Lead Length (mm)	Lead ∅ (mm)
WP2S	2W	10W	9	3.6	19.8	0.8
WP4S	4W	20W	13	5.6	22.75	0.8

Operating temperature range	-55°C to +155°C
Resistance tolerance	±5%
Temperature coefficient	<1ohm = 200ppm/°C ≥1ohm = 200ppm/°C

Stocked in the following OHMIC Values:

WP2S Series

0R1 = **121-9186** 0R68 = **121-9197** 4R7 = **121-9208** 27R = **121-9218** 150R = **121-9228**
0R12 = **121-9187** 0R82 = **121-9198** 5R6 = **121-9209** 33R = **121-9219** 180R = **121-9229**
0R15 = **121-9188** 1R = **121-9199** 6R8 = **121-9210** 39R = **121-9220** 220R = **121-9230**
0R18 = **121-9189** 1R2 = **121-9201** 8R2 = **121-9211** 47R = **121-9221** 330R = **121-9231**
0R22 = **121-9190** 1R5 = **121-9202** 10R = **121-9213** 56R = **121-9222** 390R = **121-9232**
0R27 = **121-9191** 1R8 = **121-9203** 12R = **121-9214** 68R = **121-9223** 470R = **121-9233**
0R33 = **121-9192** 2R2 = **121-9204** 15R = **121-9215** 82R = **121-9225** 560R = **121-9234**
0R39 = **121-9193** 2R7 = **121-9205** 18R = **121-9216** 100R = **121-9226** 680R = **121-9235**
0R47 = **121-9195** 3R3 = **121-9206** 22R = **121-9217** 120R = **121-9227** 820R = **121-9237**
0R56 = **121-9196** 3R9 = **121-9207**

WP4S Series

0R1 = **121-9238** 1R = **121-9252** 10R = **121-9265** 100R = **121-9278** 1K2 = **121-9291**
0R12 = **121-9239** 1R2 = **121-9253** 12R = **121-9266** 120R = **121-9279** 1K5 = **121-9292**
0R15 = **121-9240** 1R5 = **121-9254** 15R = **121-9267** 150R = **121-9280** 1K8 = **121-9293**
0R18 = **121-9241** 1R8 = **121-9255** 18R = **121-9268** 180R = **121-9281** 2K2 = **121-9294**
0R22 = **121-9242** 2R2 = **121-9256** 22R = **121-9269** 220R = **121-9282** 2K7 = **121-9295**
0R27 = **121-9243** 2R7 = **121-9257** 27R = **121-9270** 330R = **121-9283** 3K2 = **121-9296**
0R33 = **121-9244** 3R3 = **121-9258** 33R = **121-9271** 390R = **121-9284** 3K9 = **121-9298**
0R39 = **121-9245** 3R9 = **121-9259** 39R = **121-9272** 470R = **121-9286** 4K7 = **121-9299**
0R47 = **121-9246** 4R7 = **121-9260** 47R = **121-9274** 560R = **121-9287** 5K6 = **121-9300**
0R56 = **121-9247** 5R6 = **121-9262** 56R = **121-9275** 680R = **121-9288** 6K8 = **121-9301**
0R68 = **121-9249** 6R8 = **121-9263** 68R = **121-9276** 820R = **121-9289** 8K2 = **121-9302**
0R82 = **121-9251** 8R2 = **121-9264** 82R = **121-9277** 1K = **121-9290** 10K = **121-9304**

438046

Order Code	Price Each 5+	100+	250+	500+	2K5+
WP2S Series					
Values 0.1ohm to 330ohm●					
Values 390ohm to 820ohm●					
Order Code	5+	100+	250+	500+	1K+
WP4S Series					
Values 0.1ohm to 1K2●					
Values 1K5 to 10K●					

RoHS ● Compliant ▲ Non-compliant

3 Watt – WA84 Series

L = 14.5, Dia. = 5.2, Lead length = 24.55 min, Lead dia. = 0.8
Supplied bandoliered on tape (box = 1000 pcs)

- Cement coated wirewound resistors
- Suitable for pulse handling applications
- Non-flammable

Power rating @ 25°C	3W	Limiting element voltage	100V
Power rating @ 70°C	2.5W	Temperature coefficient	200ppm/°C
Resistance tolerance	±5%		

Stocked in the following OHMIC Values:

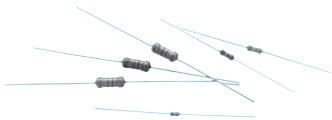
1R = **950-6012**	4R7 = **950-6209**	22R = **950-6063**	100R = **950-5890**	470R = **950-6187**
1R2 = **950-6020**	5R6 = **950-6233**	27R = **950-6080**	120R = **950-5911**	560R = **950-6217**
1R5 = **950-6039**	6R8 = **950-6268**	33R = **950-6136**	150R = **950-5938**	680R = **950-6241**
1R8 = **950-6047**	8R2 = **950-6306**	39R = **950-6152**	180R = **950-5954**	820R = **950-6276**
2R2 = **950-6101**	10R = **950-5903**	47R = **950-6195**	220R = **950-6055**	1K = **950-5970**
2R7 = **950-6110**	12R = **950-5920**	56R = **950-6225**	270R = **950-6071**	1K2 = **950-5989**
3R3 = **950-6160**	15R = **950-5946**	68R = **950-6250**	330R = **950-6128**	1K5 = **950-5997**
3R9 = **950-6179**	18R = **950-5962**	82R = **950-6292**	390R = **950-6144**	2K2 = **950-6098**

227213

Order Code	Price Each 5+	25+	100+	500+	1K+
All Values ●					

PNP-V Series

Power Wire Wound, ±5%



Style	Dimension - Body Length(mm)	Dimension - Body Dia.(mm)	Dimension - Lead Length(mm)	Dimension - Lead Dia.(mm)
PNP1WV	10±1	4.3±0.5	32±2	0.8±0.05
PNP3WV	13±1	5.5±0.5	33±2	0.8±0.05
PNP5WV	17±1	7.5±0.5	32±2	0.8±0.05
PNP7WV	25±1	7.5±0.5	38±2	0.8±0.05
PNP10V	44±1	8±0.5	28±2	0.8±0.05

PNP1WV - 1 Watt

Stocked in the following OHMIC Values:

0R1 = **177-9290**	1R = **177-9294**	10R = **177-9297**	100R = **177-9300**	470R = **177-9302**
0R22 = **177-9292**	2R2 = **177-9295**	22R = **177-9298**	220R = **177-9301**	1K = **177-9303**
0R47 = **177-9293**	4R7 = **177-9296**	47R = **177-9299**		

Order Code	Price Each 5+	50+	100+	500+	1K+
PNP1WV - 0R1 to 47R ●					
PNP1WV - 100R to 220R ●					
PNP1WV - 470R to 1K ●					

PNP3WV - 3 Watt

Stocked in the following OHMIC Values:

0R1 = **177-9304**	1R = **177-9307**	10R = **177-9312**	100R = **177-9315**	470R = **177-9317**
0R22 = **177-9305**	2R2 = **177-9309**	22R = **177-9313**	220R = **177-9316**	1K = **177-9318**
0R47 = **177-9306**	4R7 = **177-9311**	47R = **177-9314**		

Order Code	Price Each 5+	50+	100+	500+	1K+
PNP3WV - 0R1 to 220R ●					
PNP3WV - 470R ●					
PNP3WV - 1K ●					

PNP5WV - 5 Watt

Stocked in the following OHMIC Values:

0R1 = **177-9319**	1R = **177-9323**	10R = **177-9326**	100R = **177-9329**	470R = **177-9331**
0R22 = **177-9320**	2R2 = **177-9324**	22R = **177-9327**	220R = **177-9330**	1K = **177-9332**
0R47 = **177-9322**	4R7 = **177-9325**	47R = **177-9328**		

Order Code	Price Each 5+	50+	100+	500+	1K+
PNP5WV - All Values ●					

PNP7WV - 7 Watt

Stocked in the following OHMIC Values:

0R22 = **177-9335**	2R2 = **177-9338**	22R = **177-9341**	100R = **177-9343**	470R = **177-9346**
0R47 = **177-9336**	4R7 = **177-9339**	47R = **177-9342**	220R = **177-9344**	1K = **177-9347**
1R = **177-9337**	10R = **177-9340**			

Order Code	Price Each 5+	50+	100+	500+	1K+
PNP7WV - All Values ●					

PNP10WV - 10 Watt

Stocked in the following OHMIC Values:

1R = **177-9351**	4R7 = **177-9353**	22R = **177-9355**	100R = **177-9358**	470R = **177-9360**
2R2 = **177-9352**	10R = **177-9354**	47R = **177-9356**	220R = **177-9359**	1K = **177-9361**

554272

Order Code	Price Each 5+	50+	100+	500+	1K+
PNP10V - All Values ●					

EP Series, Regular and Small Sizes

NEW

Features
- Power up to 10W in Small Size
- Many Size / Power Options
- Specially Designed and
- Tested for Surge Immunity
- Flame Resistant Coating
- 5% Tolerance on all parts
- Rated to 500V

Robustly manufactured with high quality materials this resistor offers flame proof coating, and is designed and tested to withstand power surges of up to 12KV.

Case size (see part number)	Body Diameter	External Length / Height	Lead Diameter	Lead Length	Power Rating
EP1W	5mm	12mm	1mm	25mm	1W
EP3W	6.5mm	17.5mm	3mm	28mm	3W
EP5W	8.5mm	25mm	5mm	38mm	5W
EP7W	8.5mm	30mm	7mm	38mm	7W
EP9W	8.5mm	53mm	9mm	38mm	9W
EP1WS	3.5mm	10mm	1mm	28mm	1W
EP3WS	5.5mm	16mm	3mm	28mm	3W
EP5WS	6.5mm	17.5mm	5mm	28mm	5W
EP7WS	8.5mm	25mm	7mm	38mm	7W
EP9WS	8.5mm	40mm	9mm	38mm	9W

10R	EP1W10RJ	330R	EP7W330RJ	10R	EP5WS10RJ
15R	EP1W15RJ	470R	EP7W470RJ	15R	EP5WS15RJ
22R	EP1W22RJ	680R	EP7W680RJ	22R	EP5WS22RJ
33R	EP1W33RJ	1K	EP7W1K0J	33R	EP5WS33RJ
47R	EP1W47RJ	1K5	EP7W1K5J	47R	EP5WS47RJ
68R	EP1W68RJ	2K2	EP7W2K2J	68R	EP5WS68RJ
100R	EP1W100RJ	3K3	EP7W3K3J	100R	EP5WS100RJ
150R	EP1W150RJ	4K7	EP7W4K7J	150R	EP5WS150RJ
220R	EP1W220RJ	10R	EP9W10RJ	220R	EP5WS220RJ
330R	EP1W330RJ	15R	EP9W15RJ	330R	EP5WS330RJ
470R	EP1W470RJ	22R	EP9W22RJ	470R	EP5WS470RJ
680R	EP1W680RJ	33R	EP9W33RJ	680R	EP5WS680RJ
1K	EP1W1K0J	47R	EP9W47RJ	1K	EP5WS1K0J
10R	EP3W10RJ	68R	EP9W68RJ	1K5	EP5WS1K5J
15R	EP3W15RJ	100R	EP9W100RJ	2K2	EP5WS2K2J
22R	EP3W22RJ	150R	EP9W150RJ	3K3	EP5WS3K3J
33R	EP3W33RJ	220R	EP9W220RJ	4K7	EP5WS4K7J
47R	EP3W47RJ	330R	EP9W330RJ	10R	EP7WS10RJ
68R	EP3W68RJ	470R	EP9W470RJ	15R	EP7WS15RJ
100R	EP3W100RJ	680R	EP9W680RJ	22R	EP7WS22RJ
150R	EP3W150RJ	1K	EP9W1K0J	33R	EP7WS33RJ
220R	EP3W220RJ	1K5	EP9W1K5J	47R	EP7WS47RJ
330R	EP3W330RJ	2K2	EP9W2K2J	68R	EP7WS68RJ
470R	EP3W470RJ	3K3	EP9W3K3J	100R	EP7WS100RJ
680R	EP3W680RJ	4K7	EP9W4K7J	150R	EP7WS150RJ
1K	EP3W1K0J	6K8	EP9W6K8J	220R	EP7WS220RJ
1K5	EP3W1K5J	10K	EP9W10KJ	330R	EP7WS330RJ
2K2	EP3W2K2J	15K	EP9W15KJ	470R	EP7WS470RJ
10R	EP5W10RJ	10R	EP1WS10RJ	680R	EP7WS680RJ
15R	EP5W15RJ	15R	EP1WS15RJ	1K	EP7WS1K0J
22R	EP5W22RJ	22R	EP1WS22RJ	1K5	EP7WS1K5J
33R	EP5W33RJ	33R	EP1WS33RJ	2K2	EP7WS2K2J
47R	EP5W47RJ	47R	EP1WS47RJ	3K3	EP7WS3K3J
68R	EP5W68RJ	68R	EP1WS68RJ	4K7	EP7WS4K7J
100R	EP5W100RJ	100R	EP1WS100RJ	10R	EP9WS10RJ
150R	EP5W150RJ	150R	EP1WS150RJ	15R	EP9WS15RJ
220R	EP5W220RJ	220R	EP1WS220RJ	22R	EP9WS22RJ
330R	EP5W330RJ	330R	EP1WS330RJ	33R	EP9WS33RJ
470R	EP5W470RJ	470R	EP1WS470RJ	47R	EP9WS47RJ
680R	EP5W680RJ	10R	EP3WS10RJ	68R	EP9WS68RJ
1K	EP5W1K0J	15R	EP3WS15RJ	100R	EP9WS100RJ
1K5	EP5W1K5J	22R	EP3WS22RJ	150R	EP9WS150RJ
2K2	EP5W2K2J	33R	EP3WS33RJ	220R	EP9WS220RJ
3K3	EP5W3K3J	47R	EP3WS47RJ	330R	EP9WS330RJ
4K7	EP5W4K7J	68R	EP3WS68RJ	470R	EP9WS470RJ
10R	EP7W10RJ	100R	EP3WS100RJ	680R	EP9WS680RJ
15R	EP7W15RJ	150R	EP3WS150RJ	1K	EP9WS1K0J
22R	EP7W22RJ	220R	EP3WS220RJ	1K5	EP9WS1K5J
33R	EP7W33RJ	330R	EP3WS330RJ	2K2	EP9WS2K2J
47R	EP7W47RJ	470R	EP3WS470RJ	3K3	EP9WS3K3J
68R	EP7W68RJ	680R	EP3WS680RJ	4K7	EP9WS4K7J
100R	EP7W100RJ	1K	EP3WS1K0J	6K8	EP9WS6K8J
150R	EP7W150RJ	1K5	EP3WS1K5J	10K	EP9WS10KJ
220R	EP7W220RJ				

660313

Mftrs. List No.	Order Code	Price Each 20+	100+	250+	500+	1K+
EP1W10RJ	2117944					
EP1W15RJ	2117945					
EP1W22RJ	2117946					
EP1W33RJ	2117947					
EP1W47RJ	2117948					
EP1W68RJ	2117949					
EP1W100RJ	2117950					
EP1W150RJ	2117951					
EP1W220RJ	2117953					
EP1W330RJ	2117954					

EP Series, Regular and Small Sizes - continued

Mftrs. List No.	Order Code	Price Each 20+	100+	250+	500+	1K+
EP1W470RJ	2117955					
EP1W680RJ	2117956					
EP1W1K0J	2117957					
EP3W10RJ	2117958					
EP3W15RJ	2117959					
EP3W22RJ	2117960					
EP3W33RJ	2117961					
EP3W47RJ	2117962					
EP3W68RJ	2117963					
EP3W100RJ	2117965					
EP3W150RJ	2117966					
EP3W220RJ	2117967					
EP3W330RJ	2117968					
EP3W470RJ	2117969					
EP3W680RJ	2117970					
EP3W1K0J	2117971					
EP3W1K5J	2117972					
EP3W2K2J	2117973					
EP5W10RJ	2117974					
EP5W15RJ	2117975					
EP5W22RJ	2117977					
EP5W33RJ	2117978					
EP5W47RJ	2117979					
EP5W68RJ	2117980					
EP5W100RJ	2117981					
EP5W150RJ	2117982					
EP5W220RJ	2117983					
EP5W330RJ	2117984					
EP5W470RJ	2117985					
EP5W680RJ	2117986					
EP5W1K0J	2117987					
EP5W1K5J	2117989					
EP5W2K2J	2117991					
EP5W3K3J	2117992					
EP5W4K7J	2117993					
EP7W10RJ	2117994					
EP7W15RJ	2117995					
EP7W22RJ	2117996					
EP7W33RJ	2117997					
EP7W47RJ	2117998					
EP7W68RJ	2117999					
EP7W100RJ	2118000					
EP7W150RJ	2118001					
EP7W220RJ	2118003					
EP7W330RJ	2118004					
EP7W470RJ	2118005					
EP7W680RJ	2118006					
EP7W1K0J	2118007					
EP7W1K5J	2118008					
EP7W2K2J	2118009					
EP7W3K3J	2118010					
EP7W4K7J	2118011					
EP9W10RJ	2118012					
EP9W15RJ	2118013					
EP9W22RJ	2118015					
EP9W33RJ	2118016					
EP9W47RJ	2118017					
EP9W68RJ	2118018					
EP9W100RJ	2118019					
EP9W150RJ	2118020					
EP9W220RJ	2118021					
EP9W330RJ	2118022					
EP9W470RJ	2118023					
EP9W680RJ	2118024					
EP9W1K0J	2118025					
EP9W1K5J	2118027					
EP9W2K2J	2118028					
EP9W3K3J	2118029					
EP9W4K7J	2118030					
EP9W6K8J	2118031					
EP9W10KJ	2118032					
EP9W15KJ	2118033					
EP1WS10RJ	2118034					
EP1WS15RJ	2118035					
EP1WS22RJ	2118036					
EP1WS33RJ	2118037					
EP1WS47RJ	2118039					
EP1WS68RJ	2118041					

Mftrs. List No.	Order Code	Price Each 20+	100+	250+	500+	1K+
EP1WS100RJ	2118042					
EP1WS150RJ	2118043					
EP1WS220RJ	2118044					
EP1WS330RJ	2118045					
EP1WS470RJ	2118046					
EP3WS10RJ	2118047					
EP3WS15RJ	2118048					
EP3WS22RJ	2118049					
EP3WS33RJ	2118050					
EP3WS47RJ	2118052					
EP3WS68RJ	2118053					
EP3WS100RJ	2118054					
EP3WS150RJ	2118055					
EP3WS220RJ	2118056					
EP3WS330RJ	2118057					
EP3WS470RJ	2118058					
EP3WS680RJ	2118059					
EP3WS1K0J	2118060					
EP3WS1K5J	2118061					
EP5WS10RJ	2118062					
EP5WS15RJ	2118064					
EP5WS22RJ	2118065					
EP5WS33RJ	2118066					
EP5WS47RJ	2118067					
EP5WS68RJ	2118068					
EP5WS100RJ	2118069					
EP5WS150RJ	2118070					
EP5WS220RJ	2118071					
EP5WS330RJ	2118072					
EP5WS470RJ	2118073					
EP5WS680RJ	2118074					
EP5WS1K0J	2118076					
EP5WS1K5J	2118077					
EP5WS2K2J	2118078					
EP5WS3K3J	2118079					
EP5WS4K7J	2118080					
EP7WS10RJ	2118081					
EP7WS15RJ	2118082					
EP7WS22RJ	2118083					
EP7WS33RJ	2118084					
EP7WS47RJ	2118085					
EP7WS68RJ	2118086					
EP7WS100RJ	2118088					
EP7WS150RJ	2118089					
EP7WS220RJ	2118090					
EP7WS330RJ	2118091					
EP7WS470RJ	2118092					
EP7WS680RJ	2118093					
EP7WS1K0J	2118094					
EP7WS1K5J	2118095					
EP7WS2K2J	2118096					
EP7WS3K3J	2118097					
EP7WS4K7J	2118098					
EP9WS10RJ	2118100					
EP9WS15RJ	2118101					
EP9WS22RJ	2118102					
EP9WS33RJ	2118103					
EP9WS47RJ	2118104					
EP9WS68RJ	2118106					
EP9WS100RJ	2118107					
EP9WS150RJ	2118108					
EP9WS220RJ	2118109					
EP9WS330RJ	2118110					
EP9WS470RJ	2118111					
EP9WS680RJ	2118112					
EP9WS1K0J	2118113					
EP9WS1K5J	2118114					
EP9WS2K2J	2118115					
EP9WS3K3J	2118116					
EP9WS4K7J	2118118					
EP9WS6K8J	2118119					
EP9WS10KJ	2118120					

ER Series

Tyco Electronics

- High Power Dissipation
- Tough Silicone Coating

	Power rating @ 40°C	Power rating @ 70°C	Body Length (mm)	Body ∅ (mm)	Lead Length (mm)	Lead ∅ (mm)
ER74	3W	2.5W	13.5	6	38	0.8
ER58	7W	6W	22.2	8	38	0.8

RoHS Compliant Non-compliant

Operating temperature range	-55°C to +200°C
Temperature coefficient	< 1 ohm 0 ± 200ppm/°C maximum > 1 ohm 0 + 60ppm/°C typical

ER74 Series

Stocked in the following OHMIC Values:

0R01 = **175-1804**	2R2 = **175-1817**	22R = **175-1830**	180R = **175-1843**	1K5 = **175-1855**
0R03 = **175-1805**	2R7 = **175-1818**	27R = **175-1831**	220R = **175-1844**	1K8 = **175-1856**
0R05 = **175-1806**	3R3 = **175-1819**	33R = **175-1832**	270R = **175-1845**	2K2 = **175-1857**
0R1 = **175-1807**	3R9 = **175-1820**	39R = **175-1833**	330R = **175-1846**	2K7 = **175-1858**
0R22 = **175-1808**	4R7 = **175-1821**	47R = **175-1834**	390R = **175-1847**	3K3 = **175-1859**
0R27 = **175-1809**	5R6 = **175-1822**	56R = **175-1835**	470R = **175-1848**	3K9 = **175-1860**
0R33 = **175-1810**	6R8 = **175-1823**	68R = **175-1836**	560R = **175-1849**	4K7 = **175-1861**
0R47 = **175-1811**	8R2 = **175-1824**	82R = **175-1837**	680R = **175-1850**	5K6 = **175-1862**
1R = **175-1812**	10R = **175-1825**	100R = **175-1838**	820R = **175-1851**	6K8 = **175-1863**
1R2 = **175-1813**	12R = **175-1826**	120R = **175-1841**	1K = **175-1853**	8K2 = **175-1865**
1R5 = **175-1814**	15R = **175-1828**	150R = **175-1842**	1K2 = **175-1854**	10K = **175-1866**
1R8 = **175-1816**	18R = **175-1829**			

ER58 Series

Stocked in the following OHMIC Values:

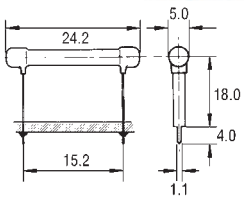
0R03 = **175-1867**	0R68 = **175-1873**	10R = **175-1880**	100R = **175-1886**	4K7 = **175-1894**
0R07 = **175-1868**	1R = **175-1874**	15R = **175-1881**	220R = **175-1887**	6K8 = **175-1895**
0R1 = **175-1869**	2R2 = **175-1875**	22R = **175-1882**	470R = **175-1889**	10K = **175-1896**
0R22 = **175-1870**	3R3 = **175-1877**	33R = **175-1883**	680R = **175-1891**	15K = **175-1897**
0R33 = **175-1871**	4R7 = **175-1878**	47R = **175-1884**	1K = **175-1892**	20K = **175-1898**
0R47 = **175-1872**	6R8 = **175-1879**	68R = **175-1885**	2K2 = **175-1893**	

544880

Order Code	Price Each 5+	50+	100+	250+	1K+
ER74 Series					
Values 0R01 to 0R47 ●					
Values 1R to 270R ●					
Values 330R to 10K ●					
ER58 Series					
Values 0R03 to 0R07 ●					
Values 0R1 to 680R ●					
Values 1K to 20K ●					

4 Watt - FCB4 Series

Tyco Electronics



Power rating @ 70°C	4W	Temperature coefficient	-70 to 250ppm/°C
Resistance tolerance		Voltage rating	√PR
0R22—0R68	±10%	Operating temperature	-55°C to +350°C
1R—10K	±5%		

Available in the following OHMIC values:

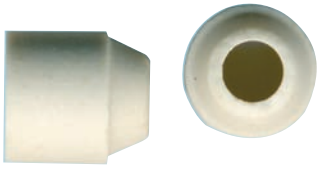
0R33 = **117-3924**	4R7 = **117-3930**	47R = **117-3937**	330R = **117-3942**	2K2 = **117-3948**
0R47 = **117-3925**	6R8 = **117-3931**	68R = **117-3938**	470R = **117-3943**	3K3 = **117-3949**
0R68 = **117-3926**	10R = **117-3932**	100R = **117-3939**	680R = **117-3944**	4K7 = **117-3950**
1R = **117-3927**	15R = **117-3933**	150R = **117-3940**	1K = **117-3945**	6K8 = **117-3951**
2R2 = **117-3928**	22R = **117-3934**	220R = **117-3941**	1K5 = **117-3946**	10K = **117-3952**
3R3 = **117-3929**	33R = **117-3936**			

207421

Order Code	Price Each 5+	50+	100+	500+
Values OR22 to 3R3 ●				
Values 4R7 to 1K ●				
Values 2K2 ●				

Ceramic Spacers

multicomp



- High working temperature
- High voltage insulator
- Used for supporting high power components
- Suitable for bore sizes up to 2 mm (height = 5mm)
- Sold in packs of 50

388645

Order Code	Price per pack 1+	5+
891-9275 ●		

3 Watt - W21 Series

TT electronics Welwyn Components

L= 12.7mm Dia= 5.6mm Lead Length= 22.75mm Lead Dia= 0.8mm

High stability and high reliability resistors offering high power and resistance in a small size. Suitable for use in harsh environments.

- Fully approved to styles J **BS9114-N001** and JB **CECC 40 201-002**
- Available with **BS-CECC** release

Power Rating @ 25°C	3W	Voltage Rating	100V
Power Rating @ 70°C	2.5W	Operating Temperature	-55°C to +350°C
Resistance Tolerance	± 5%	Temperature Coefficient	± 75ppm/°C

Stocked in the following OHMIC values:

0R1 = **950-3463**	2R = **950-3889**	24R = **950-3811**	180R = **950-3676**	1K = **950-3692**
0R12 = **950-3471**	2R2 = **950-3897**	27R = **950-3838**	200R = **950-3773**	1K2 = **950-3706**
0R15 = **950-3480**	2R4 = **950-3900**	30R = **950-3935**	220R = **950-3781**	1K5 = **950-3714**
0R18 = **950-3498**	2R7 = **950-3919**	33R = **950-3951**	240R = **950-3803**	1K8 = **950-3722**
0R2 = **950-3501**	3R = **950-4010**	39R = **950-3978**	270R = **950-3820**	2K = **950-3846**
0R22 = **950-3510**	3R3 = **950-4028**	43R = **950-4052**	300R = **950-3927**	2K2 = **950-3854**
0R27 = **950-3528**	3R9 = **950-4036**	47R = **950-4079**	330R = **950-3943**	2K4 = **950-3862**
0R33 = **950-3536**	4R7 = **950-4095**	50R = **950-4117**	390R = **950-3960**	2K7 = **950-3870**
0R39 = **950-3544**	5R = **950-4184**	51R = **950-4133**	430R = **950-4044**	3K = **950-3986**
0R47 = **950-3552**	5R1 = **950-4192**	56R = **950-4150**	470R = **950-4060**	3K3 = **950-3994**
0R5 = **950-3560**	5R6 = **950-4206**	62R = **950-4222**	500R = **950-4109**	3K9 = **950-4001**
0R51 = **950-3579**	6R8 = **950-4265**	68R = **950-4249**	510R = **950-4125**	4K7 = **950-4087**
0R56 = **950-3587**	8R2 = **950-4320**	75R = **950-4281**	560R = **950-4141**	5K1 = **950-4168**
0R68 = **950-3595**	10R = **950-3625**	82R = **950-4303**	620R = **950-4214**	5K6 = **950-4176**
1R = **950-3730**	12R = **950-3641**	91R = **950-4346**	680R = **950-4230**	6K8 = **950-4257**
1R2 = **950-3749**	15R = **950-3668**	100R = **950-3609**	750R = **950-4273**	8K2 = **950-4311**
1R5 = **950-3757**	18R = **950-3684**	120R = **950-3633**	820R = **950-4290**	10K = **950-3617**
1R8 = **950-3765**	22R = **950-3790**	150R = **950-3650**	910R = **950-4338**	

628717

Order Code	Price Each 1+	25+	100+	250+	500+
Values 0R1 to 1R ●					
Values 1R2 to 1K5 ●					
Values 1K8 to 4K7 ●					
Values 5K1 to 10K ●					

7 Watt – W22 Series

TT electronics Welwyn Components

L=22.2, Dia=8.0, Lead length=23 min, Lead dia=0.8

- Fully approved to styles K **BS9114-N001** and KB **CECC40 201-002**
- Available with **BS-CECC** release.

Power rating @ 25°C	7W	Voltage rating	200V
Power rating @ 70°C	6W	Operating temperature	-55°C to +350°C
Resistance tolerance	±5%	Temperature coefficient max	±75ppm/°C

Stocked in the following OHMIC Values:

0R1 = **950-4354**	2R2 = **950-4834**	30R = **950-4869**	240R = **950-4745**	2K4 = **950-4800**
0R12 = **950-4362**	2R7 = **950-4842**	33R = **950-4885**	270R = **950-4761**	2K7 = **950-4818**
0R15 = **950-4370**	3R3 = **950-4966**	39R = **950-4915**	300R = **950-4850**	3K = **950-4923**
0R18 = **950-4389**	3R9 = **950-4974**	47R = **950-4990**	330R = **950-4877**	3K3 = **950-4931**
0R22 = **950-4397**	4R7 = **950-5016**	51R = **950-5032**	360R = **950-4893**	3K9 = **950-4958**
0R27 = **950-4400**	5R = **950-5083**	56R = **950-5059**	390R = **950-4907**	4K7 = **950-5008**
0R33 = **950-4419**	5R1 = **950-5091**	62R = **950-5113**	470R = **950-4982**	5K1 = **950-5067**
0R39 = **950-4427**	5R6 = **950-5105**	68R = **950-5130**	510R = **950-5024**	5K6 = **950-5075**
0R47 = **950-4435**	6R8 = **950-5156**	75R = **950-5172**	560R = **950-5040**	6K8 = **950-5148**
0R5 = **950-4443**	8R2 = **950-5229**	82R = **950-5202**	680R = **950-5121**	7K5 = **950-5180**
0R51 = **950-4451**	10R = **950-4508**	91R = **950-5237**	750R = **950-5164**	8K2 = **950-5210**
0R56 = **950-4460**	12R = **950-4532**	100R = **950-4486**	820R = **950-5199**	9K1 = **950-5245**
0R68 = **950-4478**	15R = **950-4575**	120R = **950-4516**	1K = **950-4613**	10K = **950-4494**
1R = **950-4656**	18R = **950-4605**	130R = **950-4540**	1K2 = **950-4621**	12K = **950-4524**
1R2 = **950-4664**	20R = **950-4710**	150R = **950-4559**	1K5 = **950-4630**	15K = **950-4567**
1R5 = **950-4672**	22R = **950-4737**	180R = **950-4583**	1K8 = **950-4648**	18K = **950-4591**
1R8 = **950-4680**	24R = **950-4753**	200R = **950-4699**	2K = **950-4788**	20K = **950-4702**
2R = **950-4826**	27R = **950-4770**	220R = **950-4729**	2K2 = **950-4796**	

Mftrs. List No. W22 + OHMIC Value

207252

Order Code	Price Each 5+	25+	100+	250+	500+
Values 0R1 to 1R ●					
Values 1R2 to 2K4 ●					
Values 2K7 to 5K1 ●					
Values 5K6 to 20K ●					

10 Watt – W23 Series

TT electronics Welwyn Components

L=38.1, Dia=8.0, Lead length=15 min, Lead dia=0.8

- Fully approved to styles L **BS9114-N001** and LB **CECC 40 201-002**
- Available with **BS-CECC** release.

Power rating @ 25°C	10W	Voltage Rating	500V
Power rating @ 70°C	9W	Operating temperature	-55°C to +350°C
Resistance tolerance	±5%	Temperature coefficient max	±75ppm/°C

Stocked in the following OHMIC Values:

0R47 = **950-5253**	15R = **950-5326**	330R = **950-5423**	4K7 = **950-5490**
0R68 = **950-5261**	22R = **950-5393**	470R = **950-5466**	6K8 = **950-5539**
1R = **950-5350**	33R = **950-5440**	680R = **950-5512**	10K = **950-5288**
1R5 = **950-5369**	47R = **950-5482**	1K = **950-5334**	15K = **950-5318**
2R2 = **950-5415**	68R = **950-5520**	1K5 = **950-5342**	22K = **950-5385**
4R7 = **950-5504**	100R = **950-5270**	2K2 = **950-5407**	33K = **950-5431**
6R8 = **950-5547**	150R = **950-5300**	3K3 = **950-5458**	47K = **950-5474**
10R = **950-5296**	220R = **950-5377**		

Mftrs. List No. W23 + OHMIC Value

10 Watt – W23 Series - continued

207178

Order Code	Price Each 1+	25+	100+	250+	500+
Values OR1 to 1R ●					
Values 1R2 to 2K4 ●					
Values 2K7 to 5K1 ●					
Values 5K6 to 20K ●					
Values 22K to 47K ●					

14 Watt – W24 Series

TT electronics Welwyn Components

L=53.5, Dia=8.0, Lead length=30 min, Lead dia=0.88

- Fully approved to styles M **BS9114-N001** and MB **CECC 40 201-002**
- Available with **BS-CECC** release.

Power rating @ 25°C	14W	Voltage rating	750V
Power rating @ 70°C	12W	Operating temperature	-55°C to +350°C
Resistance tolerance	±5%	Temperature coefficient	±75ppm/°C

Stocked in the following OHMIC Values:

0R47 = **950-5717**	22R = **950-5636**	470R = **950-5660**	10K = **950-5571**
1R = **950-5601**	47R = **950-5687**	1K = **950-5598**	22K = **950-5628**
2R = **950-5652**	100R = **950-5563**	2K2 = **950-5644**	47K = **950-5679**
4R7 = **950-5709**	220R = **950-5610**	4K7 = **950-5695**	100K = **950-5555**
10R = **950-5580**			

Mftrs. List No. W24 + OHMIC Value

207177

Order Code	Price Each 1+	25+	100+	250+	500+
Values 0.47R to 4.7R ●					
Values 10R to 4K7 ●					
Values 10K to 47K ●					
100K ●					

Fixed Wirewound Power Resistors

SPC multicomp

25W L=50.8, Dia. external =14.3, Dia. external = 7.95
50W L=101.6, Dia. external =14.3, Dia. external = 7.95

- All welded construction
- Flame resistant coating
- High wattage applications
- Rugged vitreous enamel coating
- Terminals suitable for soldering or bolt connections

Overload power rating	10xPr for 5 secs	Temperature coefficient	1 - 20Ω = ±400ppm/°C
Resistance tolerance	±5%		>20Ω = ±260ppm/°C
Limiting element voltage	1000 V rms	Operating temperature	-55°C to +350°C

25 Watt

Stocked in the following OHMIC Values :

5R = **130-6654** 25R = **130-6652** 50R = **130-6653** 100R = **130-6655** 1K = **130-6656**
10R = **130-6651**

50 Watt

Stocked in the following OHMIC Values :

1R = **130-6657**	25R = **130-6660**	100R = **130-6663**
5R = **130-6658**	50R = **130-6661**	1K = **130-6664**
10R = **130-6659**		

451900

Power Rating	Order Code	Price Each 2+	6+	+	+	+
25W	All Values ●					
50W	All Values ●					
Accessories	Order Code	2+	6+			
Mounting Bracket	130-6665●					

72 Watt – RW Series

VISHAY

L = 117, Dia = 23

- Tubular ceramic vitreous enamel coated wirewound resistors
- High power rating
- Meet **NF C 93-214** specifications
- High mechanical strength and endurance
- AN collar connections

Power rating @ 25°C	80W	Limiting element voltage	1100V rms
Resistance tolerance	±5%	Operating temperature	-55°C to +450°C
Temperature coefficient	±75ppm/°C		

Stocked in the following OHMIC Values:

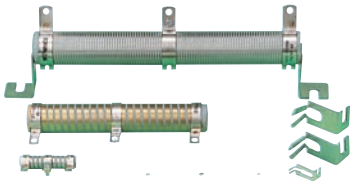
4R7 = **114-1251**	47R = **114-1253**	470R = **114-1255**	4K7 = **114-1257**
10R = **114-1252**	100R = **114-1254**	1K = **114-1256**	10K = **114-1258**

207332

Order Code	Price Each 1+	+	+	+	+
Values 4R7 to 4K7 ●					
Values 10K ●					
	2+	10+	24+	50+	100+
2EHN Mtg bracket NEW 121-3372●					

Adjustable 25, 100, 200 and 280 Watt - RSSD Series

VISHAY



25W L= 50mm, Dia= 11.5mm
100W L= 117mm, Dia= 22mm
200W L= 168mm, Dia= 27mm
280W L= 250mm, Dia= 32mm

- Tubular ceramic vitreous cement coated wirewound resistors
- Tapped via adjustable collar
- Designed to withstand severe stop/start overloads
- High power rating
- High mechanical strength and high endurance
- AN collar connections
- Mounting brackets available separately

25 Watt

Power Rating	25W	Overload Power Rating	10xPr for 5 secs
Resistance Tolerance	≥ 0R15 ±20%	Temperature Coefficient	± 75ppm/°C
	≥ 1R ±]10%	Operating Temperature	-55°C to +450°C
	≥ 10R ±5%		

Stocked in the following OHMIC values:

0R47 = **114-1280** 1R = **114-1281** 5R6 = **114-1282** 10R = **114-1283** 22R = **114-1285**

Order Code	Price Each 1+	10+	25+	50+	100+
All Values●					
2EDN Mtg Bracket 121-3358●					

100 Watt

Power Rating	100W	Overload Power Rating	10xPr for 5 secs
Resistance Tolerance	≥ 0R15 ±20%	Temperature Coefficient	± 75ppm/°C
	≥ 4R7 ±]10%	Operating Temperature	-55°C to +450°C
	≥ 10R ±5%		

Stocked in the following OHMIC values:

1R = **114-1286** 10R = **114-1288** 22R = **114-1289** 47R = **114-1290** 100R = **114-1291**
4R7 = **114-1287**

Order Code	Price Each 1+	10+	25+	50+	100+
Value 1R●					
Values 4R7 to 100R●					
Order Code	2+	10+	24+	50+	100+
2EKN Mtg Bracket 121-3359●					

200 Watt

Power Rating	200W	Overload Power Rating	10xPr for 5 secs
Resistance Tolerance	≥ 1R ±]10%	Temperature Coefficient	± 75ppm/°C
	≥ 10R ±5%	Operating Temperature	-55°C to +450°C

Stocked in the following OHMIC values:

1R = **114-1292** 10R = **114-1294** 47R = **114-1297** 100R = **114-1298** 220R = **114-1299**
4R7 = **114-1293** 22R = **114-1295**

Order Code	Price Each 1+	10+	25+	50+	100+
Value 1R●					
Values 4R7 to 200R●					
Order Code	2+	10+	24+	50+	100+
2EMN Mtg Bracket 121-3360●					

280 Watt

Power Rating	280W	Overload Power Rating	10xPr for 5 secs
Resistance Tolerance	≥ 0R47 ±10%	Temperature Coefficient	± 75ppm/°C
	≥ 10R ±5%	Operating Temperature	-55°C to +450°C

Stocked in the following OHMIC values:

0R47 = **114-1300** 10R = **114-1303** 47R = **114-1305** 100R = **114-1306** 330R = **114-1307**
4R7 = **114-1301** 22R = **114-1304**

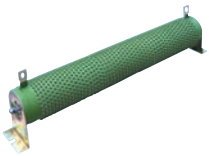
628719

Order Code	Price Each 1+	10+	25+	50+	100+
Value 1R●					
Values 4R7 to 330R●					
Order Code	2+	10+	24+	50+	100+
2ESN Mtg Bracket 121-3361●					

RoHS ● Compliant ▲ Non-compliant

TE Series

Tyco Electronics



Dimensions: (mm)

Series	H	W	L (Body)	Dia (Body)
TE200	81	239	195	40
TE500	101	360	316	50
TE750	101	360	316	50
TE1000	119	350	300	60
TE1500	119	465	415	60
TE2000	119	560	510	60
TE2500	119	650	600	60

- High Power Wire Wound Resistor
- Mullite Coated
- Up to 2500W Power Rating
- 3x Overload for 5 Seconds
- Flameproof Construction

200 Watt – TE200 Series

Power rating	200W	Resistance Tolerance	± 5%
Temperature coefficient	± 440ppm/°C	Operating temperature	-25°C to +225°C

1R = **176-0815** 4R7 = **176-0818** 22R = **176-0820** 100R = **176-0822** 470R = **176-0824**
2R2 = **176-0817** 10R = **176-0819** 47R = **176-0821** 220R = **176-0823** 1K = **176-0825**

Price Each

Order Code	1+	5+	10+	25+	+
All Values ●					

500 Watt – TE500 Series

Power rating	500W	Resistance Tolerance	± 5%
Temperature coefficient	± 440ppm/°C	Operating temperature	-25°C to +225°C

10R = **176-0826** 47R = **176-0829** 220R = **176-0832** 470R = **176-0833** 1K = **176-0834**
22R = **176-0827** 100R = **176-0831**

Price Each

Order Code	1+	5+	10+	25+	+
All Values ●					

750 Watt – TE750 Series

Power rating	750W	Resistance Tolerance	± 5%
Temperature coefficient	± 440ppm/°C	Operating temperature	-25°C to +225°C

1R = **176-0835** 4R7 = **176-0837** 22R = **176-0839** 100R = **176-0842** 470R = **176-0844**
2R2 = **176-0836** 10R = **176-0838** 47R = **176-0840** 220R = **176-0843** 1K = **176-0845**

Price Each

Order Code	1+	5+	10+	25+	+
All Values ●					

1000 Watt – TE1000 Series

Power rating	1kW	Resistance Tolerance	± 5%
Temperature coefficient	± 440ppm/°C	Operating temperature	-25°C to +225°C

1R = **176-0846** 4R7 = **176-0848** 22R = **176-0850** 100R = **176-0852** 470R = **176-0855**
2R2 = **176-0847** 10R = **176-0849** 47R = **176-0851** 220R = **176-0854** 1K = **176-0856**

Price Each

Order Code	1+	5+	10+	25+	+
All Values ●					

1500 Watt – TE1500 Series

Power rating	1.5kW	Resistance Tolerance	± 5%
Temperature coefficient	± 440ppm/°C	Operating temperature	-25°C to +225°C

1R = **176-0857** 4R7 = **176-0859** 22R = **176-0861** 100R = **176-0863** 470R = **176-0866**
2R2 = **176-0858** 10R = **176-0860** 47R = **176-0862** 220R = **176-0864** 1K = **176-0867**

Price Each

Order Code	1+	5+	10+	25+	+
All Values ●					

2000 Watt – TE2000 Series

Power rating	2kW	Resistance Tolerance	± 5%
Temperature coefficient	± 440ppm/°C	Operating temperature	-25°C to +225°C

1R = **176-0868** 4R7 = **176-0870** 22R = **176-0872** 100R = **176-0874** 470R = **176-0876**
2R2 = **176-0869** 10R = **176-0871** 47R = **176-0873** 220R = **176-0875** 1K = **176-0878**

Price Each

Order Code	1+	5+	10+	25+	+
All Values ●					

2500 Watt – TE2500 Series

Power rating	2.5kW	Resistance Tolerance	± 5%
Temperature coefficient	± 440ppm/°C	Operating temperature	-25°C to +225°C

1R = **176-0879** 4R7 = **176-0881** 22R = **176-0883** 100R = **176-0885** 470R = **176-0887**
2R2 = **176-0880** 10R = **176-0882** 47R = **176-0884** 220R = **176-0886** 1K = **176-0888**

547113

Price Each

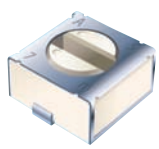
Order Code	1+	5+	10+	25+	+
All Values ●					

Single Turn Trimmers - SMD

3312 Series

BOURNS

2mm SMD Trimming Potentiometer



- Single turn, sealed 2mm surface mount trimmer
- Cermet element
- Miniature design for flexibility
- Compatible with surface mount manufacturing processes

SMD

Voltage rating	500V	Angle mechanical rotation	285°
Resistance tolerance	± 20%	Operating temperature	-55°C to +125°C
Temperature coefficient	± 100ppm/°C	Insulation resistance	
Power rating	10mW		

Stocked in the following OHMIC Values:

10R = **160-3156** 200R = **160-3162** 5K = **160-3170** 50K = **160-3171** 500K = **160-3172**
20R = **160-3161** 1K = **160-3157** 10K = **160-3158** 100K = **160-3159** 1M = **160-3160**
50R = **160-3168** 2K = **160-3163** 20K = **160-3165** 200K = **160-3166**

527280

Price Each

Order Code	1+	25+	100+	500+	1K+
All Values ●					

0.05 Watt – PVZ2 Series

muRata

H = 0.85, W = 2.1, D = 2.7

- Ultra-small and thin
- Cross-shaped driver slot allows for in-process automatic adjustment and it provides superior adjustability.
- Two-piece parts construction achieves low cost and excellent quality.
- Special resin substrate allows high peak temperature for reflow soldering.

Power rating @ 50°C	50mW	Operating temperature	-25°C to +85°C
Resistance tolerance	± 30%	Number of Turns (Effective Rotation Angle)	1(240°±10°)
Temperature coefficient	± 500ppm/°C		

Stocked in the following OHMIC Values:

470R = **177-1720** 2K2 = **177-1722** 10K = **177-1725** 47K = **177-1727** 1M = **177-1729**
1K = **177-1721** 4K7 = **177-1724** 22K = **177-1726** 100K = **177-1728**

549280

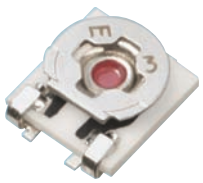
Price Each

Order Code	5+	50+	100+	500+	1K+
All Values					

0.15 Watt EVM2N & EVM2W Series

Panasonic

NEW



- High reliability realised by Cermet Element
- 2 mm square series for reflow soldering
- Excellent mountability

EVM2N H=0.81, W=2.2, D=2.81
EVM2W H=1.05, W=2.2, D=2.75

Voltage rating	50V	Temperature coefficient	± 250ppm/°C
Resistance tolerance	± 25%		

EVM2N

Stocked in the following OHMIC Values:

100R = **184-9752** 2K = **184-9756** 20K = **184-9759** 200K = **184-9763**
200R = **184-9753** 5K = **184-9757** 50K = **184-9760** 500K = **184-9764**
500R = **184-9754** 10K = **184-9758** 100K = **184-9762** 1M = **184-9765**
1K = **184-9755**

EVM2W

Stocked in the following OHMIC Values:

100R = **184-9766** 2K = **184-9770** 20K = **184-9774** 200K = **184-9777**
200R = **184-9767** 5K = **184-9771** 50K = **184-9775** 500K = **184-9778**
500R = **184-9768** 10K = **184-9772** 100K = **184-9776** 1M = **184-9779**
1K = **184-9769**

618745

Price Each

Style	Order Code	5+	50+	100+	250+	500+
EVM2N	All Values ●					
EVM2W	All Values ●					

0.1 Watt – PVZ3 Series

muRata

H = 1.8, W = 3.1, D = 3.6

- Single turn carbon trimmer in 3.1 square SMD package
- Excellent solderability due to special plating technique used on terminators
- Substrate design prevents wicking of flux onto the top of the part
- Compatible with in-process automatic adjustment

SMD

Power rating @ 50°C	10mW	Temperature coefficient	± 500ppm/°C
Resistance tolerance	±30%	Operating temperature	-25°C to +85°C
Maximum voltage	50V d.c.	Rotation angle mechanical	230°±10°

Stocked in the following OHMIC Values:

200R = **353-1594** 1K = **353-1624** 5K = **353-1650** 50K = **353-1697** 500K = **353-1739**
500R = **353-1612** 2K = **353-1636** 10K = **353-1661** 100K = **353-1703** 1M = **353-1740**

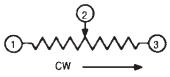
227171

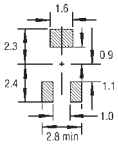
Price Each

Order Code	5+	50+	100+	500+	1K+
All Values					

0.05 Watt – 3203 Series Sealed – 3mm Square

Tyco Electronics





PCB layout

SMD

Supplied on 12mm embossed tape (reel=1K pcs)

H=2.0, W=3.0, D=3.5

- Ultra compact cermet trimmers
- Sealed to withstand industrial cleaning solvents and modern soldering processes

Voltage rating	15V	Adjustment angle (no end stop)	260° ±20°
Resistance tolerance	±25%	End resistance	15% max
Operating temperature	-20°C to +85°C	Contact resistance variation	5% max
Temperature coefficient	±250ppm/°C	Soldering temperature	260°C for 5 secs. max.

Stocked in the following OHMIC Values:

1K = **107-130**	5K = **107-132**	20K = **107-134**	100K = **107-136**
2K = **107-131**	10K = **107-133**	50K = **107-135**	

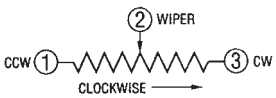
Mftrs. List No. 3203+Value

207203

Order Code	Price Each 5+	25+	100+	500+	1K+
All Values ●					

0.1 Watt – TC33 Series – 3 mm SMD

BOURNS



SMD

- Available as bottom adjust **only**
- Rotor design compatible with pick and place and automatic adjustment equipment
- Recommended for reflow soldering
- 3 mm size meets EIA / EIAJ standard trimmer footprint

Voltage rating	50V	Contact resistance variation	5%
Resistance tolerance	±25%	Operating temperature	-40°C to + 100°C
Temperature coefficient	±250ppm/°C		

Stocked in the following OHMIC Values:

1K = **136-0923** 10K = **136-0924** 20K = **136-0925** 50K = **136-0926** 100K = **136-0927**

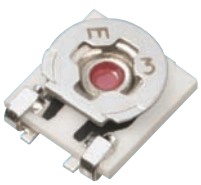
475035

Order Code	Price Each 5+	50+	100+	500+	500+
All Values●					

0.15 Watt EVM3W and EVM3Y Series

Panasonic

NEW



- High reliability realised by Cermet Element
- Low-profile 0.95 mm
- Excellent mountability

EVM3W H=0.95, W=3.1, D=3.75

EVM3Y H=1.55, W=3.1, D=3.75

Voltage rating	50V	Temperature coefficient	± 250ppm/°C
Resistance tolerance	± 25%		

EVM3W

Stocked in the following OHMIC Values:

100R = **184-9780**	2K = **184-9784**	20K = **184-9788**	200K = **184-9791**
200R = **184-9781**	5K = **184-9786**	50K = **184-9789**	500K = **184-9792**
500R = **184-9782**	10K = **184-9787**	100K = **184-9790**	1M = **184-9793**
1K = **184-9783**			

EVM3Y

Stocked in the following OHMIC Values:

100R = **184-9794**	2K = **184-9799**	20K = **184-9802**	200K = **184-9806**
200R = **184-9795**	5K = **184-9800**	50K = **184-9804**	500K = **184-9807**
500R = **184-9796**	10K = **184-9801**	100K = **184-9805**	1M = **184-9808**
1K = **184-9798**			

618765

Style	Order Code	Price Each 5+	50+	100+	250+	500+
EVM3W	All Values ●					
EVM3Y	All Values ●					

RL **FREE Re-reeling service.** Only buy what you need and improve assembly efficiency. For more information visit **local website**

0.1 Watt – 3142W Series

Tyco Electronics

4mm Square

- Surface mount single turn cermet trimmer
- 3 terminal in delta configuration
- Continuous perimeter adjustment rotor for easy vacuum pick up
- Stable cermet element

Resistance tolerance	±25%
Temperature coefficient	±250ppm/°C
Operating voltage	50V d.c. or a.c. rms
Temperature range	-25°C to +85°C

H=2.2, W=4, D=4.8 Reel=800 pcs

Stocked in the following OHMIC Values:

200R = **117-4175**	2K = **117-4178**	20K = **117-4181**	200K = **117-4184**
500R = **117-4176**	5K = **117-4179**	50K = **117-4182**	500K = **117-4185**
1K = **117-4177**	10K = **117-4180**	100K = **117-4183**	1M = **117-4187**

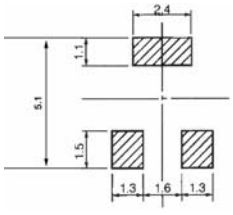
207286

Order Code	Price Each 5+	25+	100+	250+	800+
All Values ●					

0.2 Watt – 3150 Series 4mm Square

Tyco Electronics

H = 1.5, W = 4.5, D = 3.8



SMD

- Ultra compact cermet trimmers – 4mm square
- 1.5mm above board height

Voltage rating	50V	Temperature coefficient	±250ppm/°C
Resistance tolerance	±25%	Adjustment angle (no end stop)	360°
Operating temperature	-20°C to +100°C	Contact resistance variation	5% max

Mftrs. List No. 3150W+Resistance Code + P

Stocked in the following OHMIC Values:

100R = **117-3850**	2K = **117-3855**	20K = **117-3857**	100K = **117-3853**
500R = **117-3859**	5K = **117-4218**	50K = **117-4219**	200K = **117-3858**
1K = **117-3851**	10K = **117-3852**		

312089

Order Code	Price Each 5+	25+	100+	500+	1K+
All Values ●					

0.2 Watt EVM1D Series

NEW

Panasonic

- High reliability realised by Cermet Element
- 4 mm square series for reflow soldering
- Excellent mountability

H=1.4, W=3.8, D=4.5

Voltage rating	50V	Temperature coefficient	± 250ppm/°C
Resistance tolerance	± 25%		

Stocked in the following OHMIC Values:

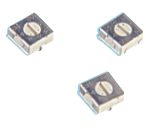
100R = **184-9809**	2K = **184-9813**	20K = **184-9817**	200K = **184-9820**
200R = **184-9810**	5K = **184-9814**	50K = **184-9818**	500K = **184-9821**
500R = **184-9811**	10K = **184-9816**	100K = **184-9819**	1M = **184-9822**
1K = **184-9812**			

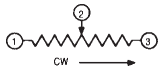
618768

Order Code	Price Each 5+	50+	100+	250+	500+
All Values ●					

0.25 Watt – 3314 Series – 4mm Square Sealed

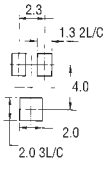
BOURNS





H=2.55, W=4.5, D=4.5

Supplied on 12mm embossed tape in multiples of 10



PCB layout

SMD

- Compact cermet trimmers
- Sealed to withstand industrial cleaning solvents and modern soldering processes.

Voltage rating	300V	Contact resistance variation	3%
Resistance tolerance	±20%	Adjustment angle	210°
Temperature coefficient	±100ppm/°C	Operating temperature	-55°C to +125°C

Stocked in the following OHMIC Values:

Case Style = G

500R = 136-0933	2K = 136-0935	10K = 136-0937	50K = 136-0939
1K = 136-0934	5K = 136-0936	20K = 136-0938	100K = 136-0940

Case Style = J

RoHS ● Compliant ▲ Non-compliant

500R	=	136-0928	2K =	136-0931	10K =	514-779	50K =	514-780
1K	=	514-755	5K =	514-767	20K =	136-0932	100K =	514-792

207205

Order Code	Price Each 5+	50+	100+	500+
All Values●				

0.25 Watt - TS53Y Series
4mm Square Sealed

TS53YL

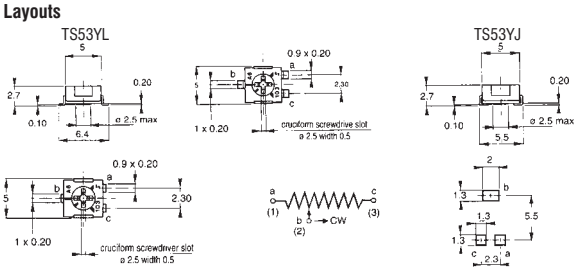
TS53YJ

- Low contact resistance variation
- Fully sealed to **IP67**
- Wide operating temperature range

Voltage rating	200V
Resistance tolerance	±20%
Temperature coefficient	±100ppm/°C
End resistance	0.1% or 3Ω
Contact resistance variation	1% or 3Ω
Dielectric strength	1000V
Operating temperature	-55°C to 155°C

H = 2.7 W = 5.0 D = 5.0 Supplied on 12mm embossed tape (reel = 500pcs)

PCB Layouts



Stocked in the following OHMIC Values:

TS53YL

500R = **114-1470** 2K = **114-1472** 10K = **114-1474** 50K = **114-1476** 200K = **114-1479**
1K = **114-1471** 5K = **114-1473** 20K = **114-1475** 100K = **114-1477**

TS53YJ

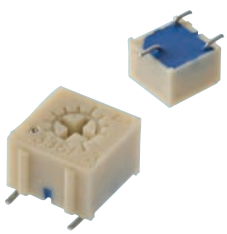
500R = **114-1481** 2K = **114-1483** 10K = **114-1485** 50K = **114-1487** 100K = **114-1488**
1K = **114-1482** 5K = **114-1484** 20K = **114-1486**

207321

Style	Order Code	Price Each 1+	50+	100+	500+	1K+
TS53YL	All Values ●					
TS53YJ	All Values ●					

0.5 Watt – 3361 Series

1/4" Square SMD Trimmer



3361P (Top adjust)
H = 5.21, W = 6.71, D = 7.04mm

3361S (Side Adjust)
H = 7.37, W = 6.71, D = 4.88mm

- Single-Turn / Cermet / Industrial / Sealed
- Withstands harsh environments and immersion cleaning processes
- Miniature package

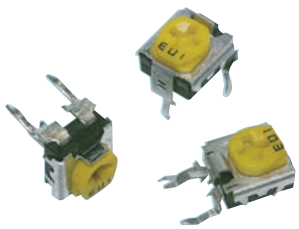
Power rating @ 75°C	500mW	Contact resistance variation	3 % or 3 ohms max
Voltage rating	300V	Dielectric strength (sea level)	900 VAC
Resistance tolerance	± 10%	Adjustment angle	240° nom
Temperature coefficient	± 100ppm/°C	Operating temperature	-55°C to +125°C

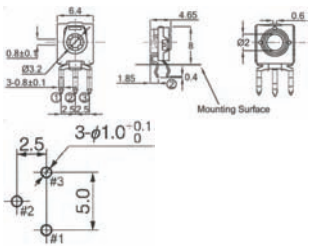
531033

Resistance	Order Code	Price Each 5+	50+	100+	250+	750+
3361P						
100R	SMD 169-6055●					
500R	SMD 169-6056●					
1K	SMD 169-6057●					
2K	SMD 169-6058●					
5K	SMD 169-6059●					
10K	SMD 169-6060●					
20K	SMD 169-6061●					
50K	SMD 169-6062●					
100K	SMD 169-6064●					
3361S						
100R	SMD 169-6065●					
500R	SMD 169-6066●					
1K	SMD 169-6067●					
2K	SMD 169-6068●					
5K	SMD 169-6069●					
10K	SMD 169-6070●					
20K	SMD 169-6071●					
50K	SMD 169-6072●					
100K	SMD 169-6073●					

Single Turn Trimmers - Leaded

CT6 Series





- Economy miniature trimmers incorporating the latest technology developments
- Robust dust and flux proof enclosed construction
- Space saving device
- New resin moulded element

Power rating @ 50°C	10mW	Contact Resistance Variation	5% or 3Ω whichever is greater
Tolerance	±30%	Rotation (nominal)	210° Mechanical
Maximum Voltage	50V d.c	Operating temperature	-25°C to +70°C

Stocked in the following OHMIC Values:

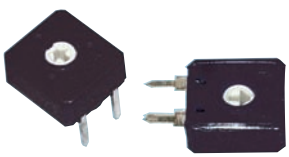
CT6V Side Adjust

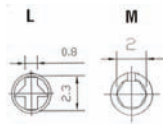
100R = **122-7551** 1K = **122-7554** 10K = **122-7558** 100K = **122-7561** 470K = **122-7563**
220R = **122-7552** 2K2 = **122-7556** 22K = **122-7559** 220K = **122-7562** 1M = **122-7564**
470R = **122-7553** 4K7 = **122-7557** 47K = **122-7560**

451822

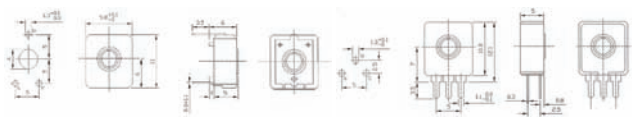
Order Code	Price Each 5+	50+	100+	1K+
All Values ●				

CB10 Series





Adjustment Styles



CB10V CB10H

- Economy carbon trimmers
- Innovative carbon resistive element printed on film in a fully enclosed package
- Choice of horizontal and vertical adjustment with two adjustment styles
- Stable in High Humidity

Resistive element	Carbon on film	Resistance tolerance	±20% (>1MR = 30%)
Power rating @ 40°C	150mW	Rotation nominal	295° electrical 240° mechanical
Maximum voltage	200V dc	Rotational life	500 cycles, minimum
Slider current	50 mA	Operating temperature	-25°C to +70°C

CB10LH - L Style, Side Adjust

100R = **122-7515** 1K = **122-7519** 10K = **122-7524** 100K = **122-7527** 470K = **122-7530**
220R = **122-7516** 2K2 = **122-7521** 22K = **122-7525** 220K = **122-7528** 1M = **122-7532**
470R = **122-7517** 4K7 = **122-7523** 47K = **122-7526**

CB10LV - L Style, Top Adjust

100R = **122-7533** 2K2 = **122-7537** 22K = **122-7540** 220K = **122-7544** 2M2 = **122-7547**
220R = **122-7534** 4K7 = **122-7538** 47K = **122-7541** 470K = **122-7545** 4M7 = **122-7549**
470R = **122-7535** 10K = **122-7539** 100K = **122-7542** 1M = **122-7546** 10M = **122-7550**
1K = **122-7536**

CB10MH - M Style, Side Adjust

1K = **122-7573** 2K2 = **122-7574** 4K7 = **122-7575** 22K = **122-7577** 100K = **122-7578**

CB10MV - M Style, Top Adjust

2K2 = **122-7566** 4K7 = **122-7568** 10K = **122-7569** 47K = **122-7570** 1M = **122-7571**

Single Turn Trimmers - Leaded - continued

CB10 Series - continued

CB10LH - L Style, Side Adjust - continued

451801

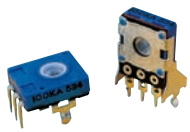
Style	Order Code	Price Each 5+	25+	100+	500+
CB10LH	All Values ●				
CB10LV	All Values ●				

		5+	25+	50+	100+	500+
CB10MH	All Values ●					
CB10MV	All Values ●					

Accessories		
10mm Spindle, Black	122-7581●	
10mm Spindle, White	122-7583●	
18mm Thumbwheel, Black	122-7582●	

51 & 53 Series Pluggable Potentiometer

Tyco Electronics



51 Series top adjust H=8 W=12.6 D=16
53 Series side adjust H=19 W=12.6 D=16

- Vertical or horizontal mounting
- Adjustable from both sides
- Integral support bracket
- Optional snap-in spindles and edge wheel

Resistive element	Resin Base technology	Mechanical rotation	300° nominal
Power rating @ 40°C	200mWatt40°C	Rotational life	15000 operations
Maximum voltage	500Vdc	Operating temperature	-25°C to +70°C
Resistance tolerance	±20%		

207268

	Order Code	Price Each 5+	25+	50+	100+	500+
51 Top adjust						
1K	117-4443●					
4K7	117-4444●					
10K	117-4445●					
47K	117-4446●					
100K	117-4448●					
53 Side adjust						
10K	117-4451●					
47K	117-4452●					
100K	117-4453●					
Accessories						
30 x 6mm Spindle Black	748-316●					
60 x 6mm Spindle Black	748-328●					
25mm Black edge wheel	748-330●					

0. 2 Watt – 416 Series – 6mm Square

Tyco Electronics

- Stable High Resolution Cermet Element
- Stocked Taped for Auto Insertion
- Dust and Splash Proof
- Space-Saving Device

Supplied on 12mm embossed tape (reel=1K pcs)

H=2.0, W=3.0, D=3.5
416M - Top adjust: 5mm x 5 mm
416PA - Top adjust: 2.5mm x 5mm

Resistance tolerance	±25%	Mechanical angle	260°
Operating temperature	-20°C+100°C	Voltage rating	100V DC max
Temperature coefficient	±250ppm/°C	Starting Torque	35 mNm max.

Mftrs. List No. 41PA+Value+P

100R = **886-6988**	2K = **886-7054**	20K = **886-7046**	200K = **886-7020**
500R = **886-7070**	5K = **886-7097**	50K = **886-7089**	500K = **886-7062**
1K = **886-7003**	10K = **886-6996**	100K = **886-6970**	1M = **886-7011**

Mftrs. List No. 416M+Value+P

100R = **886-7100**	1K = **886-7135**	10K = **886-7160**	100K = **886-7194**
200R = **886-7119**	2K = **886-7143**	20K = **886-7178**	500K = **886-7216**
500R = **886-7127**	5K = **886-7151**	50K = **886-7186**	1M = **886-7224**

Stocked in the following OHMIC Values:

386933

Order Code	Price Each 5+	25+	100+	500+	1K+
All Values ●					

0.3 Watt Ceramic Substrate EVMAA Series

Panasonic NEW

H=20, W=7.8, D=6.9

- Available for automatic adjustment due to slot & taper shape suitable for screwdriver
- Dustproof type with electrically activated wiper enclosed in an insulated rotor cap
- Excellent automatic insertion due to strong lead terminals
- High reliability realised by Cermet Element

Voltage rating	100V	Temperature coefficient	± 200ppm/°C
Resistance tolerance	± 25%		

Stocked in the following OHMIC Values:

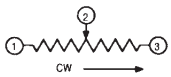
100R = **184-9823**	2K = **184-9828**	20K = **184-9831**	200K = **184-9834**
200R = **184-9824**	5K = **184-9829**	50K = **184-9832**	500K = **184-9835**
500R = **184-9825**	10K = **184-9830**	100K = **184-9833**	1M = **184-9836**
1K = **184-9826**			

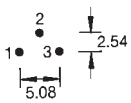
618861

Order Code	Price Each 5+	50+	100+	250+	500+
All Values ●					

0.3 Watt – 3306 Series

BOURNS





Drilling plans

- Miniature horizontal and vertical mounting
- Cermet trimmers, dust proof/splash proof covers
- Board retention feature and PCB stand offs.

3306P: H=7.8, Dia=6.8, Pin dia=1.0
3306W: H=8.5, W=6.8, D=7.6, Pin dia=1.0

Power rating @ 70°C	200mW	End resistance	2% (≤100Rohm = 30ohm)
Voltage rating	100V	Constant resistance variation	3% max
Resistance tolerance	±25%	Adjustment angle	215°
Temperature coefficient	±250ppm/°C	Operating temperature	–20°C to +100°C70°C-20°C70°C

Stocked in the following OHMIC Values:

3306P

100R = **108-234**	2K = **108-237**	10K = **108-239**	50K = **108-241**	500K = **108-243**
500R = **108-235**	5K = **108-238**	20K = **108-240**	100K = **108-242**	1M = **108-244**
1K = **108-236**				

3306W

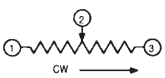
100R = **108-245**	1K = **108-247**	5K = **108-249**	20K = **108-251**	100K = **108-253**
500R = **108-246**	2K = **108-248**	10K = **108-250**	50K = **108-252**	

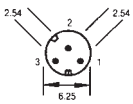
207393

Style	Order Code	Price Each 1+	50+	100+	500+
3306P	All Values●				
3306W	All Values●				

0.5 Watt – 3329H Series

BOURNS





- Top adjusting cermet trimmers
- Sealed to withstand industrial cleaning solvents and moulded with built-in 'stand-offs'

H=4.6, Pin dia=0.5

Power rating @ 85°C	500mW	Contact resistance variation	3% or 3Ω whichever >
Resistance tolerance	±10%	Dielectric strength (sea level)	600V ac
Temperature coefficient	±100ppm/°C	Adjustment angle	240°
End resistance	2 Ω max	Operating temperature	-55°C to 150°C
Voltage rating	300V		

Stocked in the following OHMIC Values:

10R = **935-4050**	100R = **935-4069**	2K = **935-4123**	20K = **935-4140**	200K = **935-4158**
20R = **935-4107**	500R = **935-4174**	5K = **935-4182**	50K = **935-4190**	500K = **935-4204**
50R = **935-4166**	1K = **935-4077**	10K = **935-4085**	100K = **935-4093**	

207394

Order Code	Price Each 1+	50+	100+	500+	1K+
All Values●					

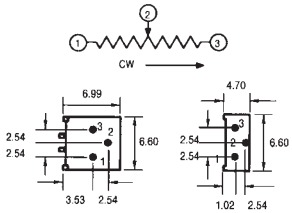
RoHS ● Compliant ▲ Non-compliant

0.5 Watt – 3362 Series

BOURNS

3362P H=4.7, Pin Dia.=0.46

3362W H=6.99 Pin Dia.=0.46



Drilling Plans

- Sealed to withstand harsh environments and immersion cleaning processes
- Featuring built-in 'stand-offs'
- Multi-wire wiper to minimise contact resistance variation

Power rating @ 70°C	500mW	Contact resistance variation	1%(100R=3Ω)
Voltage rating	300V	Dielectric strength (sea level)	900V ac
Resistance tolerance	±10%	Adjustment angle	240°
Temperature coefficient	±100ppm/°C	Operating temperature	-55°C to +125°C
End resistance	1% (100R=2Ω)		

Stocked in the following OHMIC Values:

3362P

100R = **935-4280**	2K = **935-4336**	20K = **935-4344**	100K = **935-4310**	500K = **935-4395**
500R = **935-4360**	5K = **935-4379**	50K = **935-4387**	200K = **935-4352**	1M = **935-4328**
1K = **935-4298**	10K = **935-4301**			

3362W

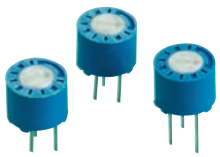
100R = **935-4409**	2K = **935-4450**	20K = **935-4468**	100K = **935-4433**	500K = **935-4514**
500R = **935-4484**	5K = **935-4492**	50K = **935-4506**	200K = **935-4476**	1M = **935-4441**
1K = **935-4417**	10K = **935-4425**			

207186

		Price Each					
Style	Order Code	5+	50+	100+	500+	1K+	2K5+
3362P	All Values ●						
3362W	All Values ●						

0.5 Watt – T7 Series

VISHAY



- Miniature single turn cermet trimmers
- Clear scale reading on top
- Sealed to **IP64**

Dia.=7, H=6

Power rating @ 85°C	500mW	End resistance	1Ω max
Voltage rating	250V	Contact resistance variation	3% or 3Ω
Resistance tolerance	±20%	Dielectric strength (sea level)	1000 V
Temperature coefficient	±100ppm/°C	Operating temperature	-55°C to + 125°C

Stocked in the following OHMIC Values:

T7

100R = **114-1642**	1K = **114-1645**	10K = **114-1649**	100K = **114-1653**	470K = **114-1655**
220R = **114-1643**	2K2 = **114-1646**	22K = **114-1651**	220K = **114-1654**	1M = **114-1656**
470R = **114-1644**	4K7 = **114-1647**	47K = **114-1652**		

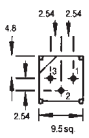
234800

		Price Each				
Style	Order Code	1+	50+	100+	500+	1K+
T7	All Values ●					

0.5 Watt – 3386 Series

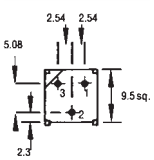
BOURNS

3386P H = 4.8, Pin dia = 0.5

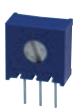


Drilling plan

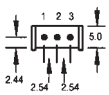
3386F H = 4.8, Pin dia = 0.5



Drilling plan

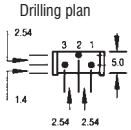


3386W H = 9.5, Pin dia = 0.5



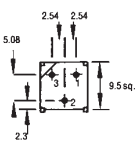
Drilling plan

3386X H = 9.5, Pin dia = 0.5



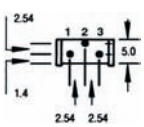
Drilling plan

3386FT H = 10.41, Pin dia = 0.5



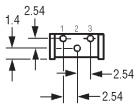
Drilling plan

3386H H = 9.5, Pin dia = 0.5



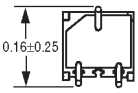
Drilling plan

3386V H = 4.8, Pin dia = 0.5

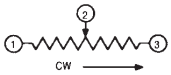


Drilling plan

3386G H = 9.5, Pin dia = 0.5



Drilling plan



- Top and side adjusting cermet trimmers
- Sealed to withstand industrial cleaning solvents
- Moulded with built-in 'stand-offs'
- 3386G replaces VA05H
- 3386V replaces VA05V

Power rating @ 85°C	500mW	Contact resistance variation	1% or 1Ω whichever>
Voltage rating	300V	Dielectric strength (sea level)	900V ac
Resistance tolerance	±10%	Mechanical rotation	310°
Temperature coefficient	±100ppm/°C	Operating temperature	-55°C to + 125°C
End resistance	2Ωmax		

Stocked in the following OHMIC Values:

3386P

100R = **935-5014**	1K = **935-5022**	10K = **935-5030**	100K = **935-5049**	500K = **935-5138**
200R = **935-5065**	2K = **935-5073**	20K = **935-5081**	200K = **935-5090**	1M = **935-5057**
500R = **935-5103**	5K = **935-5111**	50K = **935-5120**		

3386F

100R = **935-4522**	1K = **935-4530**	5K = **935-4697**	50K = **935-4719**	500K = **935-4735**
200R = **935-4611**	1K = **935-4549**	10K = **935-4557**	100K = **935-4573**	1M = **935-4590**
500R = **935-4689**	2K = **935-4620**	20K = **935-4646**	200K = **935-4662**	

338FT

10K = **935-4565**	1M = **935-4603**	20K = **935-4654**	5K = **935-4700**	500K = **935-4743**
100K = **935-4581**	2K = **935-4638**	200K = **935-4670**	50K = **935-4727**	

3386W

100R = **935-5260**	1K = **935-5278**	10K = **935-5286**	100K = **935-5294**	500K = **935-5383**
200R = **935-5316**	2K = **935-5324**	20K = **935-5332**	200K = **935-5340**	1M = **935-5308**
500R = **935-5359**	5K = **935-5367**	50K = **935-5375**		

3386X

100R = **935-5391**	1K = **935-5405**	10K = **935-5413**	100K = **935-5421**	500K = **935-5510**
200R = **935-5448**	2K = **935-5456**	20K = **935-5464**	200K = **935-5472**	1M = **935-5430**
500R = **935-5480**	5K = **935-5499**	50K = **935-5502**		

3386H

100R = **935-4883**	1K = **935-4891**	10K = **935-4905**	100K = **935-4913**	500K = **935-5006**
200R = **935-4930**	2K = **935-4948**	20K = **935-4956**	200K = **935-4964**	1M = **935-4921**
500R = **935-4972**	5K = **935-4980**	50K = **935-4999**		

3386G

100R = **935-4751**	1K = **935-4760**	10K = **935-4778**	100K = **935-4786**	500K = **935-4875**
200R = **935-4808**	2K = **935-4816**	20K = **935-4824**	200K = **935-4832**	1M = **935-4794**
500R = **935-4840**	5K = **935-4859**	50K = **935-4867**		

3386V

100R = **935-5146**	1K = **935-5154**	10K = **935-5162**	50K = **935-5243**	500K = **935-5251**
200R = **935-5197**	2K = **935-5200**	20K = **935-5219**	100K = **935-5170**	1M = **935-5189**
500R = **935-5227**	5K = **935-5235**			

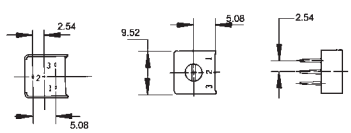
207395

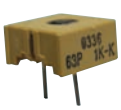
		Price Each				
Style	Order Code	1+	50+	100+	500+	1K+
3386P	All Values ●					
3386F	All Values ●					
3386W	All Values ●					
3386X	All Values ●					
3386FT	All Values ●					
3386H	All Values ●					
3386G	All Values ●					
3386V	All Values ●					

0.5 Watt – 63 Series

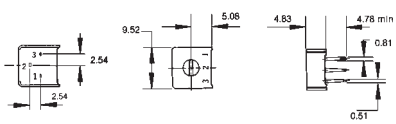
VISHAY
Vishay Spectrol

63M H=4.83, Pins=0.81 x 0.25

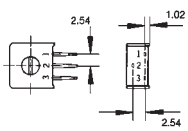




63P H=4.83, Pins=0.81 x 0.25

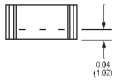


63X H=10.03, Pins=0.81 x 0.25

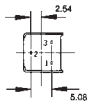


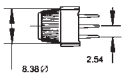
Single Turn Trimmers - Leaded - continued

0.5 Watt – 63 Series - continued



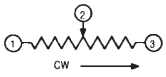
63S H=10.03, Pins=0.81 x 0.25





63MT-607 H=10.4, Pins=0.81 x 0.25

- Cermet element top and side adjusting
- Single turn sealed to withstand industrial cleaning solvents
- Manufactured to meet **MIL-R-22097** specification



Power rating @ 70°C	500mW
Voltage rating	300V
Resistance tolerance	±10%
Temperature coefficient	±100ppm/°C
End resistance	2% or 2Ω whichever is >ohm
Contact resistance variation	1% or 1Ω whichever is >
Dielectric strength (sea level)	1000V ac
Mechanical rotation	270°
Operating temperature	-55°C to + 125°C

Stocked in the following OHMIC Values:

63M
100R = **960-7781** 1K = **960-7811** 10K = **960-7846** 100K = **960-7870** 500K = **960-7897**
200R = **960-7790** 2K = **960-7820** 20K = **960-7854** 200K = **960-7889** 1M = **960-7900**
500R = **960-7803** 5K = **960-7838** 50K = **960-7862**

63P
100R = **960-7919** 1K = **960-7943** 10K = **960-7978** 100K = **960-8001** 500K = **960-8028**
200R = **960-7927** 2K = **960-7951** 20K = **960-7986** 200K = **960-8010** 1M = **960-8036**
500R = **960-7935** 5K = **960-7960** 50K = **960-7994**

63X
100R = **960-8044** 1K = **960-8079** 10K = **960-8109** 100K = **960-8133** 500K = **960-8150**
200R = **960-8052** 2K = **960-8087** 20K = **960-8117** 200K = **960-8141** 1M = **960-8168**
500R = **960-8060** 5K = **960-8095** 50K = **960-8125**

63S
100R = **960-9750** 1K = **960-9784** 10K = **960-9814** 100K = **960-9849** 500K = **960-9865**
200R = **960-9768** 2K = **960-9792** 20K = **960-9822** 200K = **960-9857** 1M = **960-9873**
500R = **960-9776** 5K = **960-9806** 50K = **960-9830**

63MT-607
100R = **960-8176** 1K = **960-8206** 10K = **960-8230** 100K = **960-8265** 500K = **960-8281**
200R = **960-8184** 2K = **960-8214** 20K = **960-8249** 200K = **960-8273** 1M = **960-8290**
500R = **960-8192** 5K = **960-8222** 50K = **960-8257**

207253

Style	Order Code	Price Each 5+	25+	100+	250+	500+
63M	All Values ●					
63P	All Values ●					
63X	All Values ●					
63S	All Values ●					
63MT-607	All Values ●					

Multi-Turn Trimmers - SMD

3223 Series

3mm SMD Trimming Potentiometer

BOURNS

- 11 turn, sealed 2mm surface mount trimmer
- Cermet element
- Flush adjustment screw
- Miniature design for flexibility
- Sealed to withstand standard board wash processing

Voltage rating	200V
Resistance tolerance	± 20%
Temperature coefficient	± 100ppm/°C
Power rating	125mW
Operating temperature	-65°C to +150°C

3223J Series

Stocked in the following OHMIC Values:

100R = **163-9294** 1K = **163-9297** 10K = **163-9301** 50K = **163-9303** 500K = **163-9307**
200R = **163-9295** 2K = **163-9299** 20K = **163-9302** 100K = **163-9305** 1M = **163-9308**
500R = **163-9296** 5K = **163-9300**

3223G Series

Stocked in the following OHMIC Values:

100R = **163-9309** 1K = **163-9312** 10K = **163-9315** 100K = **163-9319** 500K = **163-9321**
500R = **163-9311** 5K = **163-9314** 50K = **163-9318** 200K = **163-9320** 1M = **163-9322**

527286

Order Code	Price Each 1+	25+	50+	100+	250+
All Values ●					

0.125 Watt – 3223 Series – 3mm 11 Turn Sealed

BOURNS

- Miniature 11-turn 3mm surface mount cermet trimmer
- Sealed to withstand standard board wash processing
- Top flush adjustment for pick and place
- Standard trimmer footprint to EIA and EIAJ

Stocked in the following OHMIC Values:

10K = **407-8764** 20K = **407-8772**

Voltage rating	500V	Contact resistance variation	3%
Resistance tolerance	±20%	Dielectric strength (sea level)	600V ac
Temperature coefficient	±-100ppm/°C	Operating temperature	-65°C to + 150°C

343303

Order Code	Price Each 1+	25+	50+	100+
All Values ●				

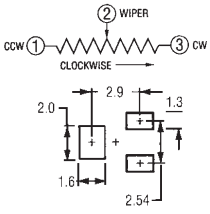
0.25 Watt – 3214 Series – 4mm 5 Turn Sealed

BOURNS

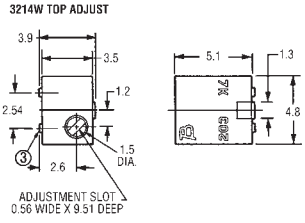
- 5-turn sealed 4mm surface mount trimmer.
- Top flush adjustment for pick and place.
- Standard trimmer footprint to EIA and EIAJ.

Supplied on 16mm embossed tape (reel=250pcs)

H=5.1, W=4.8, D=3.9



PCB layout



Voltage rating	300V	End resistance	1%
Resistance tolerance	±10%	Contact resistance variation	3%
Temperature coefficient	±100ppm/°C	Dielectric strength (sea level)	600V ac
		Operating temperature	-65°C to + 150°C

Stocked in the following OHMIC Values:

3214W
1K = **988-248** 5K = **988-261** 20K = **988-285** 100K = **988-303** 500K = **988-327**
2K = **988-250** 10K = **988-273** 50K = **988-297** 200K = **988-315** 1M = **988-339**

207269

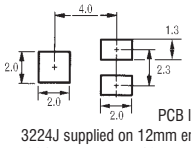
Order Code	Price Each 5+	50+	100+	250+	500+	1K+
All Values ●						

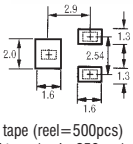
0.25 Watt – 3224 Series – 4mm Square Sealed

BOURNS

3224J
H=3.7,
W=4.8,
D=5.0

3224W
H=5.3,
W=4.8,
D=3.9





PCB layouts

3224J supplied on 12mm embossed tape (reel=500pcs)
3224W supplied on 16mm embossed tape (reel=250pcs)

- Compact 11 turn cermet trimmer
- Sealed to withstand industrial cleaning solvents

Voltage rating	300V	End resistance	1%
Resistance tolerance	±10%	Contact resistance variation	3%
Temperature coefficient	±100ppm/°C	Dielectric strength (sea level)	600V ac
		Operating temperature	-65°C to + 150°C

Stocked in the following OHMIC Values:

3224J
1K = **514-809** 5K = **514-822** 20K = **514-846** 50K = **514-858** 100K = **514-860**
2K = **514-810** 10K = **514-834**

3224W
1K = **514-871** 5K = **514-974** 10K = **514-986** 20K = **514-998** 100K = **515-012**
2K = **514-883**

207206

Style	Order Code	Price Each 1+	50+	100+	250+	500+
3224J	All Values ●					
3224W	All Values ●					

RoHS ● Compliant ▲ Non-compliant

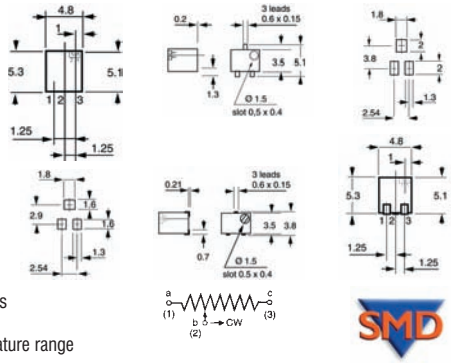
0.25 Watt - TSM4 Series - 4mm Square Sealed

(Formerly TSM53 Series)

TSM4YL (TSM53YL)

TSM4YJ (TSM53YJ)

H = 5.3, W = 4.8, D = 3.5



- 13 turn cermet trimmers
- Fully sealed to **IP67**
- Wide operating temperature range

Voltage rating	200V	End resistance	1Ω
Resistance tolerance	±10%	Contact resistance variation	1% or 3Ω
Temperature coefficient	±100ppm/°C	Dielectric strength (sea level)	600V
		Operating temperature	-65°C to + 155°C

Stocked in the following OHMIC Values:

TSM4YL (TSM53YL)

100R = **114-1356** 1K = **114-1359** 10K = **114-1362** 100K = **114-1366** 500K = **114-1368**
200R = **114-1357** 2K = **114-1360** 20K = **114-1364** 200K = **114-1367** 1M = **114-1369**
500R = **114-1358** 5K = **114-1361** 50K = **114-1365**

TSM4YJ (TSM53YJ)

100R = **114-1342** 1K = **114-1345** 10K = **114-1348** 100K = **114-1352** 500K = **114-1354**
200R = **114-1343** 2K = **114-1346** 20K = **114-1349** 200K = **114-1353** 1M = **114-1355**
500R = **114-1344** 5K = **114-1347** 50K = **114-1350**

TSM4ZJ

100R = **879-2437** 1K = **879-2461** 10K = **879-2496** 50K = **879-2518** 200K = **879-2534**
200R = **879-2445** 2K = **879-2470** 20K = **879-2500** 100K = **879-2526** 500K = **879-2542**
500R = **879-2453** 5K = **879-2488**

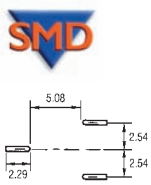
TSM4ZL

100R = **879-2569** 500R = **879-2585** 2K = **879-2607** 50K = **879-2640** 500K = **879-2674**
200R = **879-2577** 1K = **879-2593** 10K = **879-2623**

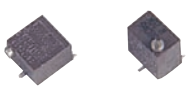
207319

		Price Each					
Style	Order Code	1+	50+	100+	250+	500+	1K+
TSM4YL	All Values ●						
TSM4YJ	All Values ●						
TSM4ZJ	All Values ●						
TSM4ZL	All Values ●						

0.25 Watt – 3269 Series – 6.35mm Square

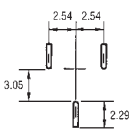


PCB layout

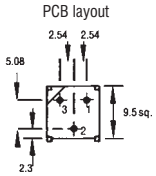


3269P
H=5.08,
W=6.35,
D=6.35

3269W
H=7.11,
W=4.32,
D=6.35



PCB layout



- 12 turn cermet trimmers
- Surface mount version of the 3266 Series leaded 6.35mm multi-turn cermet trimmer
- Sealed to withstand industrial cleaning solvents.

Voltage rating	300V	End resistance	1%
Resistance tolerance	±10%	Contact resistance variation	3%
Temperature coefficient	±100ppm/°C	Dielectric strength (sea level)	600V ac
		Operating temperature	-65°C to + 150°C

Stocked in the following OHMIC Values:

3269P

1K = **935-2902** 10K = **935-2910** 50K = **935-2945** 100K = **935-2929**
2K = **935-2937**

3269W

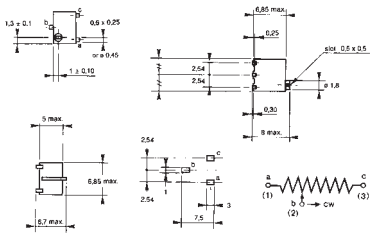
1K = **935-2953** 5K = **935-3003** 20K = **935-2996** 100K = **935-2970**
2K = **935-2988** 10K = **935-2961** 50K = **935-3011**

207207

		Price Each			
Style	Order Code	1+	50+	100+	500+
3269P	All Values ●				
3269W	All Values ●				

0.25 Watt - TS63Y Series - 6.35mm Square Sealed

PCB layout



H = 6.85 W = 5.0
D= 6.85

- 13 (±2) turn cermet trimmers
- Fully sealed to **IP67**
- Low contact resistance variation

Voltage rating	250V	End resistance	1Ω
Resistance tolerance	±10%	Contact resistance variation	2% or 2Ω
Temperature coefficient	±100ppm/°C	Dielectric strength	1000V
		Operating temperature	-55°C to + 155°C

Stocked in the following OHMIC Values:

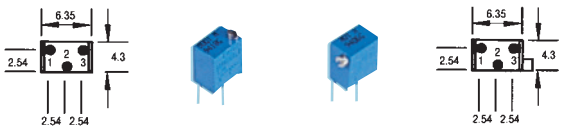
500R = **114-1490** 2K = **114-1493** 10K = **114-1495** 50K = **114-1497** 1M = **114-1499**
1K = **114-1492** 5K = **114-1494** 20K = **114-1496** 100K = **114-1498**

207317

	Price Each				
Order Code	1+	50+	100+	500+	1K+
All Values ●					

Multi-Turn Trimmers - Leaded

0.25 Watt – 3266 Series



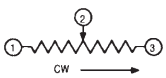
Drilling plans

3266W
H=6.9,
Pin dia=0.5

3266X
H=6.9,
Pin dia=0.5

Drilling plans

- 12 turn trimmers
- Sealed to withstand industrial cleaning solvents
- Moulded with built-in 'stand-offs'



Power rating @ 70°C	250mW	End resistance	5Ω max
Voltage rating	300V	Contact resistance variation	3% or 3Ω
Resistance tolerance	±10%	Dielectric strength (sea level)	600V ac
Temperature coefficient	±100ppm/°C	Operating temperature	-55°C to + 150°C

Stocked in the following OHMIC Values:

3266W

10R = **935-2627** 200R = **935-2694** 5K = **935-2759** 100K = **935-2660**
20R = **935-2686** 500R = **935-2740** 10K = **935-2651** 200K = **935-2724**
50R = **935-2732** 1K = **935-2643** 20K = **935-2716** 500K = **935-2775**
100R = **935-2635** 2K = **935-2708** 50K = **935-2767** 1M = **935-2678**

3266X

100R = **935-2783** 1K = **935-2791** 10K = **935-2805** 100K = **935-2813**
200R = **935-2821** 2K = **935-2830** 20K = **935-2848** 200K = **935-2856**
500R = **935-2864** 5K = **935-2872** 50K = **935-2880** 500K = **935-2899**

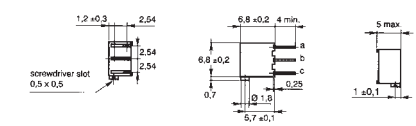
207396

		Price Each				
Style	Order Code	1+	50+	100+	500+	1K+
3266W	All Values ●					
3266X	All Values ●					

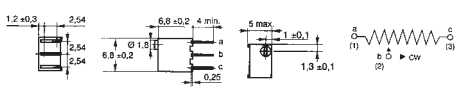
0.25 Watt – T63 Series

T63XB

Drilling plans



T63YB



H=6.8 Pin dia.=0.45

- 13 (±2) turn cermet trimmers
- Low contact resistance variation
- Sealed to **IP67**
- Wide operating temperature range

Power rating @ 85°C	250mW	Resistance tolerance	±10%
End resistance	1ohm	Dielectric strength	1000V
Voltage rating	250V	Temperature coefficient	±100ppm/°C
Contact resistance variation	2% or 2Ω	Operating temperature	-55°C to +155°C

Available in the following OHMIC Values:

T63XB

500R = **114-1428** 1K = **114-1431** 2K = **114-1432** 5K = **114-1433** 10K = **114-1434**

0.25 Watt – T63 Series - continued

20K = **114-1435** 100K = **114-1437** 200K = **114-1438** 500K = **114-1439** 1M = **114-1440**
50K = **114-1436**

T63YB

100R = **114-1441** 1K = **114-1445** 10K = **114-1448** 100K = **114-1451** 500K = **114-1453**
200R = **114-1443** 2K = **114-1446** 20K = **114-1449** 200K = **114-1452** 1M = **114-1455**
500R = **114-1444** 5K = **114-1447** 50K = **114-1450**

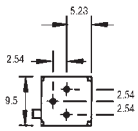
207310

Style	Order Code	Price Each 1+	50+	100+	500+	1K+
T63XB	All Values ●					
T63YB	All Values ●					

0.5 Watt – 3296 Series

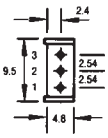
BOURNS

3296W
H=4.83, Pin dia=0.5



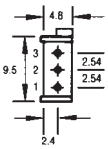
Drilling plans

3296P
H=11.5, Pin dia=0.5

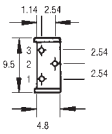


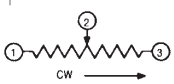
Drilling plans

3296X
H=10.3, Pin dia=0.5



3296Y
H=11.5, Pin dia=0.5





- 25 turn trimmers
- Sealed to withstand industrial cleaning solvents
- Moulded with built-in 'stand-offs'

Power rating @ 70°C	500mW	End resistance	2ohm max
Voltage rating	300V	Contact resistance variation	1% or 3Ω whichever >
Resistance tolerance	±10%	Dielectric strength (sea level)	900V ac
Temperature coefficient	±100ppm/°C	Operating temperature	-55°C to +150°C

Stocked in the following OHMIC Values:

3296P

100R = **935-3020** 1K = **935-3038** 10K = **935-3046** 100K = **935-3054** 500K = **935-3143**
200R = **935-3070** 2K = **935-3089** 20K = **935-3097** 200K = **935-3100** 1M = **935-3062**
500R = **935-3119** 5K = **935-3127** 50K = **935-3135**

3296W

10R = **935-3151** 200R = **935-3224** 5K = **935-3291** 100K = **935-3194** 1M = **935-3208**
20R = **935-3216** 500R = **935-3283** 10K = **935-3186** 200K = **935-3259** 2M = **935-3267**
50R = **935-3275** 1K = **935-3178** 20K = **935-3240** 500K = **935-3313** 5M = **935-3321**
100R = **935-3160** 2K = **935-3232** 50K = **935-3305**

3296X

10R = **935-3330** 200R = **935-3402** 2K = **935-3410** 20K = **935-3429** 200K = **935-3437**
20R = **935-3399** 500R = **935-3453** 5K = **935-3461** 50K = **935-3470** 500K = **935-3488**
50R = **935-3445** 1K = **935-3356** 10K = **935-3364** 100K = **935-3372** 1M = **935-3380**
100R = **935-3348**

3296Y

10R = **935-3496** 200R = **935-3569** 5K = **935-3631** 100K = **935-3534** 1M = **935-3542**
20R = **935-3550** 500R = **935-3623** 10K = **935-3526** 200K = **935-3593** 2M = **935-3607**
50R = **935-3615** 1K = **935-3518** 20K = **935-3585** 500K = **935-3658** 5M = **935-3666**
100R = **935-3500** 2K = **935-3577** 50K = **935-3640**

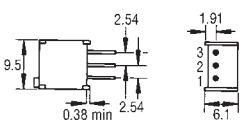
207398

Style	Order Code	Price Each 1+	50+	100+	500+	1K+	2K5+
3296P	All values●						
3296W	All values●						
3296X	All values●						
3296Y	All values●						

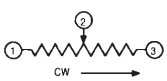
0.5 Watt – 3299W Series

BOURNS

H=10.3, Pin dia=0.51



Drilling plan



- 25 turn low noise high performance cermet trimmers
- Sealed to withstand industrial cleaning solvents
- Moulded with built in 'stand-off's'.

Power rating @ 70°C	500mW	End resistance	2ohm max.
Voltage rating	300V	Contact resistance variation	1% or 3Ω whichever >
Resistance tolerance	±10%	Dielectric strength (sea level)	900V ac
Temperature coefficient	±100ppm/°C	Operating temperature	-55°C to +125°C

Stocked in the following OHMIC Values:

3299W

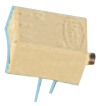
10R = **935-3674** 200R = **935-3747** 2K = **935-3755** 20K = **935-3763** 200K = **935-3771**
20R = **935-3739** 500R = **935-3798** 5K = **935-3801** 50K = **935-3810** 500K = **935-3828**
50R = **935-3780** 1K = **935-3690** 10K = **935-3704** 100K = **935-3712** 1M = **935-3720**
100R = **935-3682**

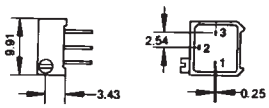
207173

Style	Order Code	Price Each 1+	50+	100+	500+	1K+	2K5+
3299W	All Values ●						

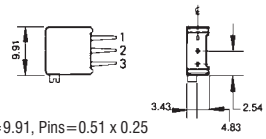
0.5 Watt – 64 Series

VISHAY
Vishay Spectrol

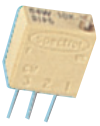


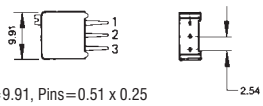


64P H=4.83, Pins=0.51 x 0.25

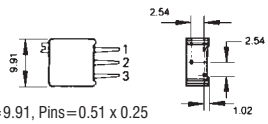


64X H=9.91, Pins=0.51 x 0.25

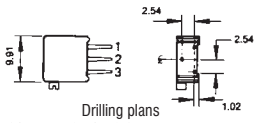




64W H=9.91, Pins=0.51 x 0.25



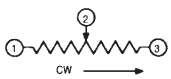
64Y H=9.91, Pins=0.51 x 0.25



Drilling plans

64Z H=9.91, Pins=0.51 x 0.25

- 21 (±2) turn trimmer top and side adjusting
- Sealed to withstand industrial cleaning solvents
- Manufactured to meet **MIL-R-22097** specification



Power rating @ 70°C	500mW	Contact resistance variation	2Ω or 2% whichever >
Voltage rating	300V	Dielectric strength	1000V ac
Resistance tolerance	±10%	Resistance to solder heat	350°C for 3 seconds
Temperature coefficient	±100ppm/°C	Operating temperature	-55°C to +125°C
End resistance	1ohm		

Stocked in the following OHMIC Values:

64P

100R = **960-8303** 1K = **960-8338** 10K = **960-8362** 100K = **960-8397** 500K = **960-8419**
200R = **960-8311** 2K = **960-8346** 20K = **960-8370** 200K = **960-8400** 1M = **960-8427**
500R = **960-8320** 5K = **960-8354** 50K = **960-8389**

64X

100R = **960-8435** 1K = **960-8460** 10K = **960-8494** 100K = **960-8524** 500K = **960-8540**
200R = **960-8443** 2K = **960-8478** 20K = **960-8508** 200K = **960-8532** 1M = **960-8680**
500R = **960-8451** 5K = **960-8486** 50K = **960-8516**

64W

100R = **960-8567** 1K = **960-8591** 10K = **960-8621** 100K = **960-8656** 500K = **960-8672**
200R = **960-8575** 2K = **960-8605** 20K = **960-8630** 200K = **960-8664** 1M = **960-8680**
500R = **960-8583** 5K = **960-8613** 50K = **960-8648**

64Y

100R = **960-8699** 1K = **960-9610** 10K = **960-8745** 50K = **960-8761** 200K = **960-8788**
200R = **960-8702** 2K = **960-8729** 20K = **960-8753** 100K = **960-8770** 1M = **960-8796**
500R = **960-8710** 5K = **960-8737**

64Z

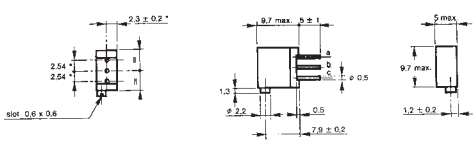
100R = **960-8800** 1K = **960-8834** 10K = **960-8869** 100K = **960-8893** 500K = **960-8915**
200R = **960-8818** 2K = **960-8842** 20K = **960-8877** 200K = **960-8907** 1M = **960-8923**
500R = **960-8826** 5K = **960-8850** 50K = **960-8885**

207300

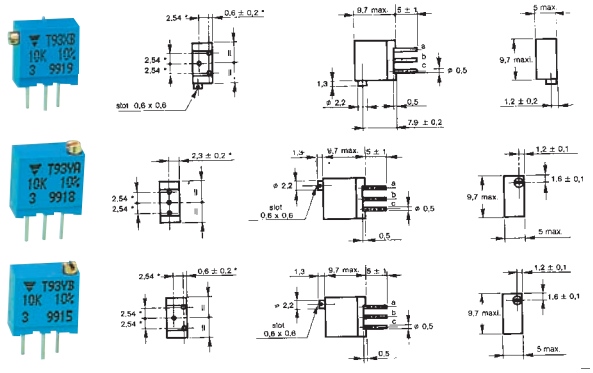
Style	Order Code	Price Each 1+	50+	100+	500+	1K+
64P	All Values ●					
64X	All Values ●					
64W	All Values ●					
64Y	All Values ●					
64Z	All Values ●					

0.5 Watt - T93 Series

VISHAY



RoHS ● Compliant ▲ Non-compliant



- 22 turn cermet trimmers
- Wide operating temperature range
- Sealed to **IP67**

Power rating @ 85°C	500mW	End resistance	1ohm
Voltage rating	250V	Contact resistance variation	2% or 2Ω
Resistance tolerance	±10%	Dielectric strength	1000V
Temperature coefficient	±100ppm/°C	Operating temperature	-55°C to +155°C

Stocked in the following OHMIC Values

T93XA

100R = **114-1370** 1K = **114-1373** 10K = **114-1377** 50K = **114-1379** 200K = **114-1381**
200R = **114-1371** 2K = **114-1374** 20K = **114-1378** 100K = **114-1380** 500K = **114-1382**
500R = **114-1372** 5K = **114-1376**

T93XB

100R = **114-1383** 1K = **114-1386** 20K = **114-1391** 100K = **114-1393** 500K = **114-1395**
200R = **114-1384** 5K = **114-1389** 50K = **114-1392** 200K = **114-1394** 1M = **114-1396**
500R = **114-1385** 10K = **114-1390**

T93YA

100R = **114-1397** 1K = **114-1401** 10K = **114-1404** 100K = **114-1408** 500K = **114-1410**
200R = **114-1398** 2K = **114-1402** 20K = **114-1406** 200K = **114-1409** 1M = **114-1411**
500R = **114-1400** 5K = **114-1403** 50K = **114-1407**

T93YB

100R = **114-1412** 1K = **114-1415** 10K = **114-1419** 100K = **114-1422** 500K = **114-1424**
200R = **114-1413** 2K = **114-1416** 20K = **114-1420** 200K = **114-1423** 1M = **114-1425**
500R = **114-1414** 5K = **114-1418** 50K = **114-1421**

207318

		Price Each				
Style	Order Code	1+	50+	100+	500+	1K+
T93XA	All Values ●					
T93XB	All Values ●					
T93YA	All Values ●					
T93YB	All Values ●					

High Precision Trimming Potentiometer

NEW

VISHAY

1240P 1240W 1280G

- Smooth and unidirectional resistance with leadscrew adjustment
- Load life stability: 0.1%
- Electrostatic discharge (ESD) up to 25 000V

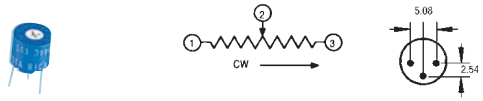
No. of turns	Track Resistance	Power Rating (mW)	Temperature Coefficient	Resistance tolerance	Mftrs. List No.	Order Code
1240P Series						
21	2 kohm	250	± 10ppm/°C	± 5%	Y00532K00000J0L	186-7873
21	5 kohm	250	± 10ppm/°C	± 5%	Y00535K00000J0L	186-7874
1240W Series						
21	100 ohm	250	± 10ppm/°C	± 5%	Y4053100R000J0L	186-7875
21	10 kohm	250	± 10ppm/°C	± 5%	Y405310K0000J0L	186-7876
21	1 kohm	250	± 10ppm/°C	± 5%	Y40531K00000J0L	186-7877
21	2 kohm	250	± 10ppm/°C	± 5%	Y40532K00000J0L	186-7879
21	500 ohm	250	± 10ppm/°C	± 5%	Y4053500R000J0L	186-7881
21	5 kohm	250	± 10ppm/°C	± 5%	Y40535K00000J0L	186-7882
1280G Series						
26	100 ohm	250	± 15ppm/°C	± 10%	Y0056100R000K0L	186-7883
26	10 kohm	250	± 15ppm/°C	± 10%	Y005610K0000K0L	186-7884
26	20 kohm	250	± 15ppm/°C	± 10%	Y005620K0000K0L	186-7885
26	500 ohm	250	± 15ppm/°C	± 10%	Y0056500R000K0L	186-7886

624234

Series		Price Each			
	Order Code	1+	10+	50+	100+
1240P	All Values ●				
1240W	All Values ●				
1280G	All Values ●				

0.5 Watt – 3339P Series

BOURNS



H=6.35, Dia=7.62, Pin dia=0.43

Drilling plan

- 4 turn top adjusting cermet trimmer
- Precise wiper setting
- Single turn package
- Meets requirements of **MIL-R-22097**

Power rating @ 85°C	500mW	End resistance	1% or 2ohm whichever >
Voltage rating	300V	Contact resistance variation	3% or 3Ω whichever >
Resistance tolerance	±10%	Dielectric strength (sea level)	600V ac
Temperature coefficient	±100ppm/°C	Operating temperature	-55°C to +150°C

Stocked in the following OHMIC Values:

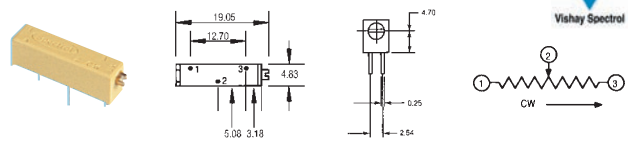
100R = **935-4212** 1K = **935-4220** 5K = **935-4271** 10K = **935-4239** 20K = **935-4255**
500R = **935-4263** 2K = **935-4247**

207190

	Price Each			
Order Code	1+	50+	100+	250+
All Values ●				

0.5 Watt – 43P Series

VISHAY Vishay Spectrol



43P (standard)
H=6.35, Pin dia=0.5

Drilling plan, top view

- 20 turn cermet trimmers completely sealed against dust and humidity
- Manufactured to meet **MIL-R-22097** specifications.

Power rating @ 25°C	500mW	End resistance	1Ω max
Voltage rating	250V	Contact resistance variation	2% or 1Ω whichever >
Resistance tolerance	±10%	Dielectric strength	1000V ac
Temperature coefficient	±100ppm/°C	Operating temperature	-55°C to +125°C

Stocked in the following OHMIC Values:

43P (Standard)

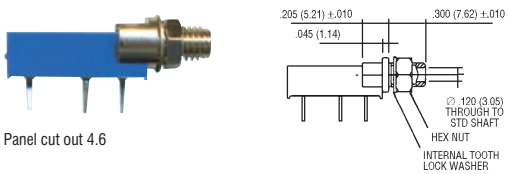
20R = **960-8931** 200R = **960-8966** 2K = **960-8990** 20K = **960-9024** 200K = **960-9059**
50R = **960-8940** 500R = **960-8974** 5K = **960-9008** 50K = **960-9032** 500K = **960-9067**
100R = **960-8958** 1K = **960-8982** 10K = **960-9016** 100K = **960-9040** 1M = **960-9075**

207311

		Price Each				
Style	Order Code	1+	25+	50+	100+	250+
43P (standard)	All Values ●					

0.5W–43P – Panel Mount

VISHAY Vishay Spectrol



Panel cut out 4.6

- Panel mounting version of the popular 43P
- Pin outs and specification are the same as the 43P

Stocked in the following OHMIC Values

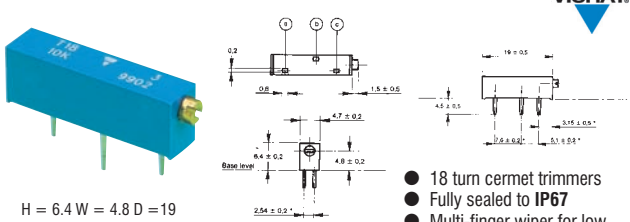
5K = **960-9679** 100K = **960-9717** 500R = **960-9644** 20K = **960-9695** 500K = **960-9733**
10K = **960-9687** 100R = **960-9628** 1K = **960-9652** 200K = **960-9725** 1M = **960-9741**
50K = **960-9709** 200R = **960-9636** 2K = **960-9660**

207264

	Price Each				
Order Code	1+	25+	50+	100+	250+
All Values ●					

0.75 Watt - T18 Series

VISHAY



H = 6.4 W = 4.8 D =19
Pin Dia = 0.5

- 18 turn cermet trimmers
- Fully sealed to **IP67**
- Multi-finger wiper for low contact resistance

Power rating @ 70°C	750mW	End resistance	1ohm
Voltage rating	250V	Contact resistance variation	2% or 2Ω
Resistance tolerance	±10%	Dielectric strength	1000V
Temperature coefficient	±100ppm/°C	Operating temperature	-55°C to +125°C

Stocked in the following OHMIC Values:

100R = **114-1456** 200R = **114-1457** 500R = **114-1458** 1K = **114-1459** 2K = **114-1460**

Multi-Turn Trimmers - Leaded - continued

0.75 Watt - T18 Series - continued

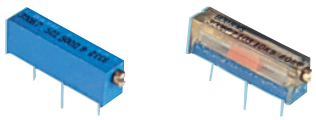
5K = **114-1461** 20K = **114-1463** 100K = **114-1465** 500K = **114-1468** 1M = **114-1469**
10K = **114-1462** 50K = **114-1464** 200K = **114-1467**

207320

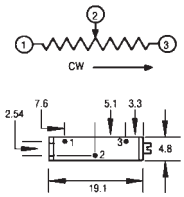
Order Code	Price Each 1+	25+	50+	100+	250+
All Values ●					

1.25 Watt – 3006 Series

BOURNS



3006P (standard) 3006P-7 (transparent)
H=6.35, Pin dia=0.5



Drilling plan, top view

- 15 turn cermet trimmers
- Sealed to withstand industrial cleaning solvents
- Version with transparent housing allows visual wiper setting

Power rating @ 25°C	1.25W (0.75W @ 70°C)	End resistance	2 Ω max
Voltage rating	400V	Contact resistance variation	1% or 1Ω whichever >
Resistance tolerance	±10%	Dielectric strength (sea level)	1000V ac
Temperature coefficient	±100ppm/°C	Operating temperature	-55°C to +125°C

Stocked in the following OHMIC Values:

3006P (standard)

10R = **935-2260** 500R = **935-2376** 5K = **935-2384** 20K = **935-2341** 200K = **935-2350**
50R = **935-2368** 1K = **935-2287** 10K = **935-2295** 50K = **935-2392** 500K = **935-2406**
100R = **935-2279** 2K = **935-2333** 10K = **935-2295** 100K = **935-2309** 1M = **935-2317**
200R = **935-2325**

3006P-7 (transparent)

10R = **935-2414** 1K = **935-2422** 5K = **935-2503** 20K = **935-2473** 100K = **935-2449**
200R = **935-2457** 2K = **935-2465** 10K = **935-2430** 50K = **935-2511** 200K = **935-2481**
500R = **935-2490**

207399

Style	Order Code	Price Each 1+	50+	100+	500+	1K+
3006P (standard)	All Values ●					
3006P-7 (transparent)	All Values ●					

H-83P Adaptor

BOURNS

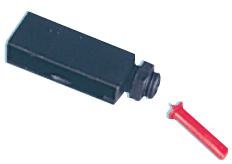
- Front panel mounting adaptor
- For use with Bourns 3006P Series multiturn trimmers and similar.

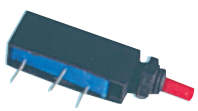
L=29.7, W=9.5, D=9.53

207412

	Order Code	Price Each 1+	100+
H-83-P	148-805		

Low Cost Adaptor





With trimmer and extension spindle fitted

Overall: L = 29.2, H = 9.3, W = 5 Thread: L = 6, Dia. = 6 Max panel thickness = 3

- Panel mount adaptor
- Moulded in black nylon 6
- For use with 19.1mm trimmer

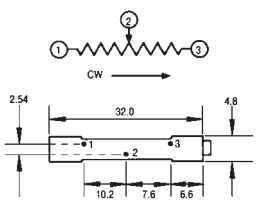
207427

Order Code	Price Each 1+	25+	100+	500+
149-877				

1.0 Watt – 3059Y Series

BOURNS

H=8.0, Pin dia=0.8



Drilling plan, top view
2 x 3.4 holes, 25.4 Fixing centres

- 22 turn cermet trimmers
- To **MIL-R-22097** requirements.

Power rating @ 70°C	1W	End resistance	2Ω max
Voltage rating	400V	Contact resistance variation	1% or 1Ω whichever >
Resistance tolerance	±10%	Dielectric strength (sea level)	900V ac
Temperature coefficient	±100ppm/°C	Operating temperature	-55°C to +150°C

Stocked in the following OHMIC Values:

100R = **935-2520** 2K = **935-2562** 20K = **935-2570** 100K = **935-2554**
500R = **935-2589** 5K = **935-2597** 50K = **935-2600** 500K = **935-2619**
1K = **935-2538** 10K = **935-2546**

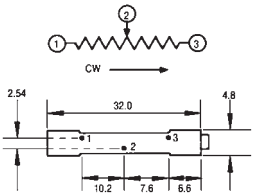
207400

Order Code	Price Each 1+	50+	100+	500+	1K+
All Values ●					

1.0 Watt - 70Y Series

VISHAY
Vishay Spectrol

H=8.0, Pin dia=0.8



Drilling plan, top view

- 20 turn cermet trimmers
- To **MIL-R-22097** requirements.

Power rating @ 85°C	500mW	End resistance	2Ω max
Voltage rating	400V	Contact resistance variation	3% or 3Ω whichever >
Resistance tolerance	±10%	Dielectric strength (sea level)	1000V ac
Temperature coefficient	±100ppm/°C	Operating temperature	-55°C to +150°C

Stocked in the following OHMIC Values:

100R = **960-9083** 2K = **960-9113** 20K = **960-9148** 200K = **960-9172**
500R = **960-9091** 5K = **960-9121** 50K = **960-9156** 500K = **960-9180**
1K = **960-9105** 10K = **960-9130** 100K = **960-9164** 1M = **960-9199**

207415

Order Code	Price Each 1+	25+	100+	250+	1K+
All Values ●					

Trimmer Tools

Single

Spectrol

Bourns

Double ended tools suitable for adjusting most types of single and multi turn trimmers.
H91 for use with 3224 SMD trimmer

207342

	Order Code	Price Each 1+	50+	250+	500+
SpectrolSPECTROL	145-507				
Bourns H90BOURNS	109-151				
Bourns H91BOURNS	869-144				

Single Turn Potentiometers

Cermet vs Conductive Plastic (CP) Elements
Cermet Elements generally have:
- Higher power rating than CP
- Higher temperature stability than CP
- Higher temperature stability than CP
- Can be produced in a wider range of ohmic values than CP

Plus:
- They are very resistant to high humidity conditions
- Tighter tolerances are available on nominal resistance

Conductive Plastic Elements generally have a:
- Longer Life than Cermet
- Lower Electrical noise than Cermet

Please refer to individual product specifications for further information.

387202

9mm Snap-in

ALPS

- Compact design horizontal or vertical mounting
- Integral bracket for direct PCB mounting.

Power rating 0.05W
Voltage rating 50V a.c.
Resistance tolerance ±20%
Mechanical rotation 280°

Please note the Alps taper designation is opposite to standard European versions, i.e. Linear is B taper, Logarithmic is A.

207240

RoHS ● Compliant ▲ Non-compliant

Horizontal	Order Code	Price Each 1+	10+	25+	50+
Vertical					
Logarithmic					
10K single	**119-1724●**				
Linear					
10K single	**119-1725●**				

9mm Snap-In

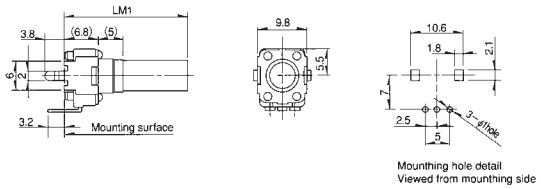
ALPS

With Collar

- Vertical snap in design
- Metal collar to support shaft and improve stability
- Enclosed and dust proof

Power rating	50mW
Voltage rating	50V a.c.
Resistance tolerance	±20%
Mechanical rotation	300°

Mftrs. List No. RK09D Series



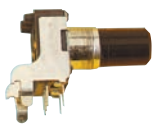
207258

Value	Taper	Order Code	Price Each 1+	10+	50+	100+	250+
10kohm	B (Lin)	**119-1741●**					
100kohm	B (Lin)	**119-1742●**					

9mm Snap-In

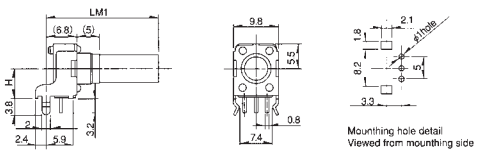
ALPS

With Collar



- Horizontal mounting snap in design
- Metal collar to support shaft and improve stability
- Enclosed and dust proof

Power rating	50mW (single) 0.03W (dual)
Voltage rating	50V a.c.
Resistance tolerance	±20%
Mechanical rotation	280°



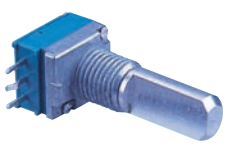
Mftrs. List No. RK09D111 Series

207261

Value	Taper	Order Code	Price Each 1+	10+	50+	100+	250+
6.5mm Mounting Height							
10K	B (Lin)	**No Order Code**					
10K	A (Log)	**No Order Code**					
10mm Mounting Height							
10K	A (Log)	**No Order Code**					

9 mm sq Metal Shaft

ALPS



- Compact size PCB mounting
- Ideal for volume, tone and balance control in audio equipment.

Body size = 9.5 x 9.5 D = 7.05 (dual D = 9.55)
Bush= M7 x 0.75 L = 20

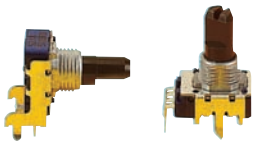
Power rating	50mW	Resistance tolerance	±20%
Voltage rating	50V a.c.		RK09711110K = 119-1710

207231

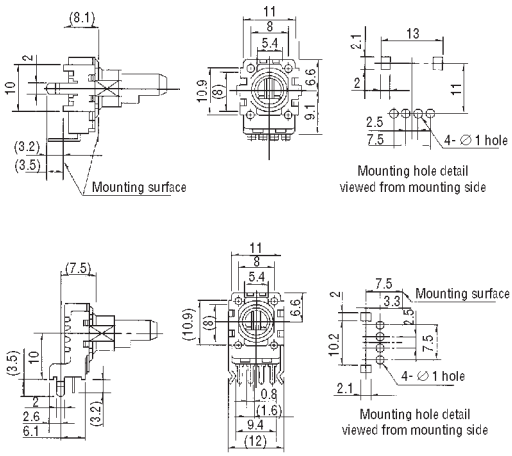
	Order Code	Price Each 1+	10+	25+	50+
Linear					
Flatted shaft 10K single	**119-1710●**				

11mm Snap-In

ALPS



Horizontal Vertical
Bush M9 x 0.75



- Horizontal and vertical mounting
- Sealed units ideal for flow soldering
- Available in two mounting heights
- Bush mounting for overall stability

Power rating	50mW	Resistance tolerance	±20%
Voltage rating	50V a.c.20V d.c.	Mechanical rotation	300°

Mftrs. List No. RKIIK Series

207260

Value	Taper	Order Code	Price Each 1+	10+	50+	100+	250+
Horizontal 10mm Mounting Height							
10kohm	A (Log)	**119-1744●**					
Vertical Mounting							
10kohm	A (Log)	**119-1745●**					
10kohm	B (Lin)	**119-1746●**					

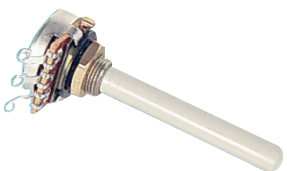
0.4 Watt (Linear), 0.2 Watt (Logarithmic) – 23 Series Carbon

Tyco Electronics

Low cost high quality range of carbon logarithmic and linear potentiometers, having 5mm spacing between pins, suitable for panel mounting applications. The plastic spindle has a flat along its full length. Versions available with single carbon track, single track with DPST switch and double ganged carbon track.

Power rating @ 40°C	400mW (logarithmic)400mW 400mW (linear)	Mechanical rotation	300° nom.
		Terminal resistance	5Ω max.
Voltage rating	500V	Dielectric strength	1000V ac peak
Resistance tolerance	±20%	Operating temperature	-10°C to +70°C
Electrical rotation	267° nom.		

Carbon Track



L=10.7 (body), 50.0 (spindle, inc. bush)
Dia=20.4 (body), 6.35 (spindle)
Mounting bush=7.4 x M9.5
Panel cut-out=9.6 dia

Stocked in the following OHMIC Values:

23 LIN

1K = **117-4082**	4K7 = **350-060**	22K = **350-084**	100K = **350-102**	470K = **350-126**
2K2 = **350-059**	10K = **350-072**	47K = **350-096**	220K = **350-114**	1M = **350-138**

23 LOG

1K = **350-140**	4K7 = **350-163**	22K = **350-187**	100K = **350-205**	470K = **350-229**
2K2 = **117-4084**	10K = **350-175**	47K = **350-199**	220K = **350-217**	1M = **350-230**

207166

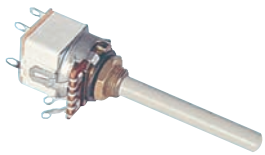
Style	Order Code	Price Each 1+	25+	100+	250+	500+
23 LIN	**All Values ●**					
23 LOG	**All Values ●**					

Single Turn Potentiometers - continued

With DPST Switch

Tyco Electronics

NEW



L=23.0 (body), 51.0 (spindle, inc bush)
Dia=20.4 (body), 6.35 (spindle) Mounting bush=7.4 x M9.5 Spindle material=plastic

Switch rating 250V ac @ 4A Electrical rotation 232°
Mftrs. List No. Linear Track 23ESAxxxMMF50AF, Logarithmic Track 23ESBxxxMMF50AF where xxx = resistance and multipier

207414

Resistance	Order Code	Price Each 1+	25+	100+	250+	500+
Linear						
2K2	**776-221** ●					
4K7	**106-476** ●					
10K	**106-477** ●					
22K	**189-8444** ●					
47K	**189-8446** ●					
100K	**106-478** ●					
470K	**189-8445** ●					
1000K	**106-479** ●					
Logarithmic						
10K	**106-481** ●					
47K	**189-8447** ●					
100K	**189-8443** ●					

Double Ganged

Tyco Electronics

L=21.0 (body), 50.0 (spindle inc bush)
Dia=20.4 (body), 6.35 (spindle)
Mounting bush=7.4 x M9.5
Spindle material = plastic

Mftrs List No. Linear Track 27ESAxxxMMF50NF, Logarithmic Track 27ESBxxxMMF50NF where xxx = resistance and multiplier
Mftrs List No. Linear Track 27ESAxxxMMF50N, Logarithmic Track 27ESBxxxMMF50N where xxx = resistance and multiplier

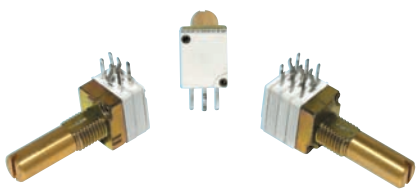
207185

Resistance	Order Code	Price Each 1+	25+	100+	250+	500+
Linear						
4K7	**117-3888** ●					
5K	NEW **189-8454** ●					
10K	**117-3890** ●					
10K	NEW **189-8452** ●					
100K	**117-3987** ●					
100K	NEW **189-8448** ●					
Logarithmic						
10K	**117-3892** ●					
10K	NEW **189-8453** ●					
47K	**117-3988** ●					
100K	**117-3989** ●					
100K	NEW **189-8451** ●					

P9A Series

0.1W (Linear) & 0.05W (Logarithmic)

VISHAY Vishay Spectrol



- Panel & PCB mounting conductive plastic potentiometers
- Single or Dual gang versions
- Ultra compact
- Ideal for professional audio applications

Body H = 12.5, W, = 12.5, D = 7.1 (Single Gang), 9.6 (Dual Gang)
Shaft L = 20, Dia = 6, Bush (metal) = M7 x 0.75
Pin thickness = 3

Dielectric Strength - sea level	300VAC	Temperature coefficient	±500ppm/°C
Electrical rotation	270° ±10°	Power rating	10mW (Linear) @ 70°C
End Resistance	3ohm		50mW (Log) @ 70°C
Mechanical rotation	300°±5°		50 (Dual Linear) per module
Operating temperature	-55°C to 100°C		25 (Dual Log) per module
Resistance tolerance	±20%		

Stocked in the following OHMIC Values:

Single Linear **Single Logarithmic**

1K = **879-1287** 10K = **879-1295** 50K = **879-1309** 1K = **879-1317** 10K = **879-1325** 50K = **879-1333**

Dual Linear **Dual Logarithmic**

1K = **879-1341** 10K = **879-1350** 50K = **879-1368** 1K = **879-1376** 10K = **879-1384** 50K = **879-1392**

385824

Style	Order Code	Price Each 1+	10+	50+	100+
Single Linear	**All Values** ●				
Single Log	**All Values** ●				
Dual Linear	**All Values** ●				
Dual Log	**All Values** ●				

0.25 Watt – 3310 Series

BOURNS

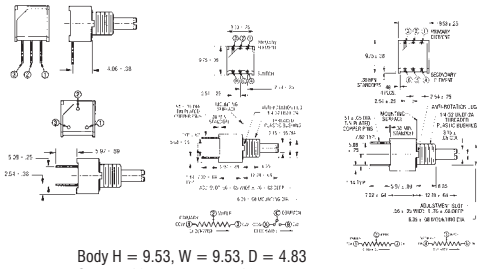
3310C

3310Y

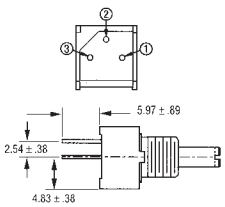
3310H-003

3310H-001

3310P



Body H = 9.53, W = 9.53, D = 4.83
Shaft = 12.7 (inc bush) 3.18
Bush = ¼-32 UNEF-2A



- Linear potentiometer for PCB mounting
- Compact size saving valuable board space
- Withstands industrial washing.

Power rating @ 70°C	250mW	End resistance	2Ω
Voltage rating	200V	Contact resistance Variation	1% or 1Ω
Resistance tolerance	±20%	Dielectric strength (sealed)	900V
Temperature coefficient	1000ppm/°C	Operating temperature	-55°C to +125°C

Stocked in the following OHMIC Values:

3310C

1K = **935-3836** 5K = **935-3895** 20K = **935-3879** 100K = **935-3852** 500K = **935-3917**
2K = **935-3860** 10K = **935-3844** 50K = **935-3909** 200K = **935-3887**

3310Y Single gang vertical

1K = **115-6139** 5K = **115-6141** 20K = **935-3992** 100K = **935-3984** 500K = **115-6142**
2K = **115-6140** 10K = **935-3976** 50K = **935-4000**

3310H-001 Dual gang vertical

1K = **115-6143** 10K = **935-3925** 20K = **115-6144** 100K = **935-3933** 1M = **935-3941**

3310H-003 Single gang with switch vertical

10K = **935-3950** 100K = **935-3968**

3310P

1K = **115-6132** 10K = **115-6134** 50K = **115-6136** 100K = **115-6137** 500K = **115-6138**
5K = **115-6133**

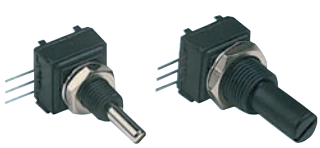
207210

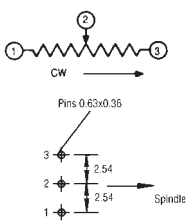
Style	Order Code	Price Each 1+	100+	500+	1K+
3310C	**All Values** ●				
3310P	**All Values** ●				
3310Y	**All Values** ●				
3310H-001	**All Values** ●				
3310H-003	**All Values** ●				

1W – 249 Series – PCB Mounted Cermet

Linear

VISHAY Vishay Spectrol





Body H=12.7, W=12.7, D=7.6
Spindle= ¾" (inc. bush) x ⅛" dia. Bush= ¼" x 32 UNEF
Spindle= ⅞" (inc. bush) x ¼" dia. Bush= ⅜" x 32 UNEF

- Panel and PCB mounting cermet
- 1 watt rating with space saving design
- Metal or plastic shafts, ⅛" (3.17mm) or ¼" (6.35mm) diameter.

Power rating @ 70°C	1W	Mechanical rotation	295°±5°
Resistance tolerance	±20%	Dielectric strength	750V rms
Temperature coefficient	±100ppm/°C	Operating temperature	-55°C to +125°C
Electrical rotation	265°±5°		

Stocked in the following OHMIC Values:
249-8-08 ⅛dia. metal shaft

RoHS ● Compliant ▲ Non-compliant

500R = **960-9202** 2K5 = **960-9229** 10K = **960-9245** 50K = **960-9261** 100K = **960-9270**
1K = **960-9210** 5K = **960-9237** 25K = **960-9253**

249-7-10 ¼ dia. plastic shaft
500R = **960-9296** 2K5 = **960-9318** 10K = **960-9342** 50K = **960-9369** 500K = **960-9385**
1K = **960-9300** 5K = **960-9326** 25K = **960-9350** 100K = **960-9377**

Mftrs. List No. 249-8-08 + value, 249-7-10 + value

207226

Order Code	Price Each 1+	25+	50+	100+	500+
All Values ●					

P10 Series 3/8" Potentiometer

Cermet - Fully Sealed

- Miniature compact
- Industrial Grade
- 10,000 cycles rotational life

Resistance tolerance	± 10%
Temperature Coefficient	± 150ppm/°C
Operating Temperature	-55°C to +125°C

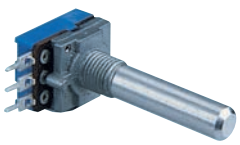
Resistance	Voltage Rating	Power rating @ 70°C	Mftrs. List No.	Order Code
1K	22.4V	500mW	P10XXAI102KB30	171-4012
20K	100V	500mW	P10XXAI203KB30	171-4013
50K	158V	500mW	P10XXAI503KB30	171-4014
200K	250V	280mW	P10XXAI204KB30	171-4015
500K	250V	130mW	P10XXAI504KB30	171-4017
1M	250V	60mW	P10XXAI105KB30	171-4018

536563

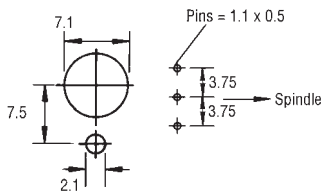
Order Code	Price Each 1+	10+	50+	100+
All Values ●				

54 Series PCB Mounting

Carbon Linear – 0.2 Watt



Body H=15.8, W=12.5, D=82
Spindle=30 (inc bush) 6 dia
Bush=8 x M7 thread
Mounting height above board=12.5



Panel cut-out

- Miniature carbon linear potentiometers
- Suitable for either PCB or panel mounting
- Ideal for use in applications where space is at a premium
- Carbon element contained within a sealed housing

Power rating @ 40°C	200mW	Mechanical rotation	300° nom.
Voltage rating	350V ac or 500V dc	Temperature coefficient	±500ppm/°C
Resistance tolerance	±20%	Operating temperature	-25°C to ±70°C

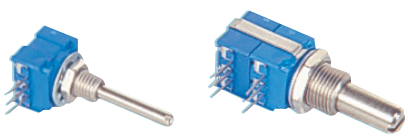
Subject to design change

Stocked in the following OHMIC Values:
1K = **117-4085** 10K = **117-4088** 22K = **117-4089** 47K = **117-4090** 470K = **117-4093**
4K7 = **117-4087**

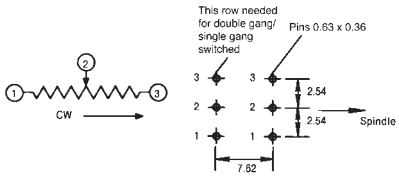
207167

Style	Order Code	Price Each 1+	50+	100+	500+
PP54LIN	**All Values** ●				

1Watt (Cermet Linear), 0.5 Watt (Double Gang Conductive Plastic Linear) – 50 Series PCB Mounting



Body H = 13.25, W = 12.5, D = 8.9 (219-125 = 16.5)
Bush 107-661, 107-662 = 8 x 6 dia: spindle = 25 (inc bush) x 3 dia
107-663, 107-664, 219-125 = ⅜" x ⅜" dia: spindle = ⅞" (inc bush) x ¼" dia



Drilling plan

- Linear cermet PCB mounting
- Choice of bush and shaft size
- Double gang version in conductive plastic

Power rating @ 70°C	1W (219-125 = 0.5W)	Mechanical rotation	295°±5°
Voltage rating	350V ac (or limited by power dissipation whichever <)	Linearity	5%
		Terminal resistance	2Ω
Resistance tolerance	±10%	Contact resistance variation	4% (219-125=2%)
Temperature coefficient	±150ppm/°C (219-125 =±1000ppm/°C)	Dielectric strength (sea level)	1000VAC
		Operating temperature	+1°C to +125°C
Electrical rotation	270°±5°		

Stocked in the following OHMIC Values:
8 x 6 Bush ⅜ x ⅜" Bush
1K = **935-7688** 10K = **935-7661** 10K = **935-7696** 10K (double gang) = **935-7670**

51AAD-B28-A15L = 935-7661 51ABD-B28-B15/B15L = 935-7670
51SAD-U25-A10L = 935-7688 51SAD-U25-A15L = 935-7696

207182

Order Code	Price Each 1+	25+	50+	100+
935-7688 ●				
935-7661 ●				
935-7696 ●				
935-7670 ●				

P11 Series Single and Double Gang

Body H = 13, W = 12.5,
D = 11.1 (single), 16.18 (double gang)

- P11 linear or logarithmic cermet
- PA11 logarithmic conductive plastic
- Solder lug terminations

Power rating @ 70°C	500mW (Linear)	Electrical rotation	270°±5°
	500mW (Logarithmic)	Mechanical rotation	300°±5°
	500mW (PA11)	End resistance	2ohm
Resistance tolerance	±10%(Cermet)	Contact resistance variation (linear)	2% or +3Ω whichever> (PA11 = 1%)
	±10%(Cond. Plastic)	Dielectric strength	1500Vrms
Temperature coefficient	±500ppm/°C (Cermet)	Operating temperature	-55°C to +125°C
	±500ppm/°C (Cond.Plastic)		

Stocked in the following OHMIC Values:

P11 Cermet - Single Gang Linear
100R = **114-1595** 1K = **114-1597** 10K = **114-1599** 100K = **114-1602** 1M = **114-1605**
500R = **114-1596** 5K = **114-1598** 50K = **114-1601** 500K = **114-1604**

P11 Cermet - Double Gang Linear
5K = **114-1606**

P11 Cermet - Single Gang Logarithmic
1K = **114-1608** 5K = **114-1609** 10K = **114-1610** 50K = **114-1611**

PA11 Conductive Plastic - Double Gang Logarithmic
10K = **114-1613**

207316

Style	Order Code	Price Each 1+	10+	50+	100+	500+
P11 Cermet						
Single Gang Linear	**All Values** ●					
Double Gang Linear	**All Values** ●					
Single Gang Logarithmic	**All Values** ●					
PA11 Conductive Plastic						
Double Gang Logarithmic	**Values 10K** ●					

Long Life Cermet Potentiometer

P11L Series

NEW

- Dielectric strength up to 1500 Vrms
- Cermet element with 2 million operating cycles
- 12.5 mm square single turn panel control

Power rating @ 70°C	100 mW (Linear)	Mechanical rotation	300°C ± 5°C
Resistance tolerance	± 10%	End resistance	2 Ω
Temperature coefficient	± 150ppm/°C	Operating temperature	-55°C to +125°C
Electrical rotation	270°C ± 10°C	Linearity	± 3 % (± 2 % available)

Stocked in the following OHMIC Values:

Single Gang
1K = **189-3273** 5K = **189-3274** 10K = **189-3275** 50K = **189-3276**

Double Gang
1K = **189-3277** 5K = **189-3278** 10K = **189-3279** 50K = **189-3280**

Single Turn Potentiometers - continued

Long Life Cermet Potentiometer - continued

Double Gang - continued

635900

Style	Order Code	Price Each 1+	10+	50+	100+
Single Gang	All Values●				
Double Gang	All Values●				

P11P Series

NEW

VISHAY

- High dielectric strength potentiometer up to 5000 V_{rms}
- 12.5 mm square single turn panel control
- P11P: Cermet element

Power rating @ 70°C	1W (Linear)	Mechanical rotation	300° ± 5°
Resistance tolerance	± 10%	End resistance	2 Ω
Temperature coefficient	± 150ppm/°C	Operating temperature	-40°C to +100°C
Electrical rotation	270° ± 10°		

Stocked in the following OHMIC Values:

Shaft 15.8mm 500R = **183-7223** 5K = **183-7225** 50K = **183-7227** 100K = **183-7228**
100R = **183-7222** 1K = **183-7224** 10K = **183-7226**

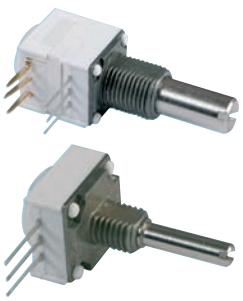
Shaft 22.2mm 500R = **183-7232** 5K = **183-7234** 50K = **183-7236** 100K = **183-7237**
100R = **183-7231** 1K = **183-7233** 10K = **183-7235**

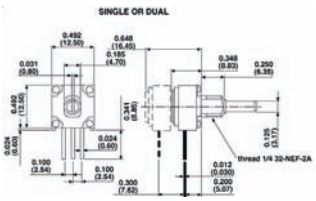
613590

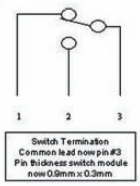
Order Code	Price Each 1+	10+	50+	100+	500+
All Values●					

0.5 Watt - 148 Series - Panel & PCB Mounted Conductive Plastic Linear, Single, Double Gang & Single Switched Potentiometers

VISHAY Vishay Spectrol







Body H = 12.5, W, = 12.5, D = 8.83 (Double Gang & Single Switched 16.45)
Switch module pin thickness = 0.9 x 0.3
Shaft = ¾" (inc bush) x ⅛" dia., Bush = ¼" x 32 UNEF
Shaft = ⅞" (inc bush) x ¼" dia., Bush = ⅜" x 32 UNEF

148 series are suitable for applications requiring frequent adjustment, which include: Volume control in Audio Applications, Voltage Adjustment in Power Supplies, Instrumentation Adjustment, Industrial Equipment; including brightness control in illuminated display panels & Medical Equipment.

- New Switch Contact - Common lead is now Pin 3
- Choice of shaft sizes
- High Rotational Life of 50,000 cycles
- Quiet Electrical output
- Robust Construction
- Tin leads (previously gold)
- Supplied with metal lock washer & Nut

Power rating @ 70°C	500mW	Operating temperature	-40°C to +120°C
Resistance toleorance	±10%	Temperature Coeffiecient	±1000ppm/°C
Mechanical rotation	300° ± 5°	End resistance	4ohm max.
Electrical rotation	240° ±10° (with rotary switch) 270° ±10° (without rotary switch)	Dielectric Strenght - sea level	750VAC

Stocked in the following OHMIC Values:

148-SXN ⅛" dia. shaft single gang
10K = **855-7292** 50K = **855-7306**

148-SXG ¼" dia. shaft single gang
5K = **855-7284** 10K = **855-7276**

148-DXG ¼" dia. shaft double gang
1K = **855-7225** 5K = **855-7233**

148-SSG ¼" dia. shaft single gang switched
1K = **855-7241** 10K = **855-7250**
5K = **855-7268**

388662

Style	Order Code	Price Each 1+	25+	50+	100+	250+
⅛" single gang	All Values●					
¼" single gang	All Values●					
¼" double gang	All Values●					
¼" single gang switched	All Values●					

P11S Series

Cermet

VISHAY

Body H = 13, W = 12.5,
D = 11.1 (single), 16.18 (double gang)

Bushing = Height 3.125mm, Dia 6.35mm, Length 6.35mm

- Miniature module size : 12.5 mm square - low current compatibility
- Multiple assemblies - up to seven modules
- Up to twenty-one indent positions

Power rating @ 70°C	1W (Linear) 500W (Logarithmic)	Mechanical rotation	300°±5°
		End resistance	2ohm
Resistance tolerance	± 20%	Contact resistance variation (linear)	2% or +3Ω whichever>
Temperature coefficient	± 100ppm/°C	Dielectric strength	1500Vrms
Electrical rotation	270°±5°	Operating temperature	-55°C to +125°C

Stocked in the following OHMIC Values:

P11S Cermet - Single Gang Linear
100R = **151-7293** 1K = **151-7294** 50K = **151-7306** 500K = **151-7304** 1M = **151-7301**
500R = **151-7308** 10K = **151-7298** 100K = **151-7300**

P11S Cermet - Double Gang Linear
5K = **151-7303**

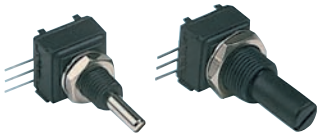
P11S Cermet - Single Gang Logarithmic
1K = **151-7295** 5K = **151-7307** 10K = **151-7299** 50K = **151-7305**

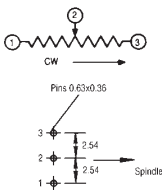
496762

Style	Order Code	Price Each 1+	10+	50+	100+	500+
Single Gang Linear	All Values●					
Double Gang Linear	All Values●					
Single Gang Logarithmic	All Values●					

0.5W – 248 Series PCB Mounted Conductive Plastic

VISHAY Vishay Spectrol





Body H=12.7, W=12.7, D=7.6
Spindle= ¾" (inc. bush) x ⅛" dia., Bush= ¼" x 32 UNEF
Spindle= ⅞" (inc. bush) x ¼" dia., Bush= ⅜" x 32 UNEF

- Panel and PCB mounting conductive plastic
- Space saving short body
- Metal or plastic shafts, ⅛" (3.17mm) or ¼" (6.35mm) diameter.

Power rating @ 70°C	500mW	Mechanical rotation	295° ± 5°
Resistance toleorance	±20%	Dielectric strength	750V rms
Temperature coefficient	±1000ppm/°C	Operating temperature	-55°C to +125°C
Electrical rotation	265° ± 5°		

Stocked in the following OHMIC Values:

248-8-08 ⅛" dia. metal shaft linear
500R = **960-9393** 2K5 = **960-9415** 10K = **960-9431** 50K = **960-9458**
1K = **960-9407** 5K = **960-9423** 25K = **960-9440** 100K = **960-9466**

248J-8-08 ⅛" dia. metal shaft logarithmic
10K = **960-9474** 50K = **960-9482** 100K = **960-9490**

248J-7-10 ¼" dia. Plastic shaft linear
500R = **960-9504** 2K5 = **960-9520** 10K = **960-9547** 50K = **960-9563**
1K = **960-9512** 5K = **960-9539** 25K = **960-9555** 100K = **960-9571**

248J-7-10 ¼" dia plastic shaft logarithmic
10K = **960-9580** 50K = **960-9598** 100K = **960-9601**

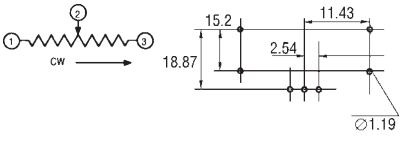
Mftrs. List No. 248-8-08 + value, 248J-8-8-08 + value, 248-7-10 + value, 248J-7-10 + value

207225

Style	Order Code	Price Each 1+	25+	50+	100+	500+
⅛" Linear	All Values●					
⅛" Logarithmic	All Values●					
¼" Linear	All Values●					
¼" Logarithmic	All Values●					

0.75 Watt – PC Series – PCB Mounted Conductive Plastic Linear

BOURNS



Drilling plan

RoHS ● Compliant ▲ Non-compliant

H=8.31, W=23.4, D=22.2,
Spindle = ¾" (inc bush) x ¼" dia
Bush=6.35 x M9

- Slimline conductive plastic potentiometers
- With or without central reference position

Power rating @ 70°C	750mW	Linearity	±5%
Voltage rating	350V (or limited by power dissipation whichever<)	Terminal resistance	5Ω
Resistance toloerance	±20%	Dielectric strength (sea level)	1000V ac
Electrical rotation	270° ±5°	Operating temperature	+1°C to + 125°C
Mechanical rotation	300° ±5°		

Stocked in the following OHMIC Values:

Central Reference position 1K = **935-8285** 5K = **935-8307** 10K = **935-8293**

Central Referance position 10K = **935-8323**

Mftrs. List No. PCW1JB24KAB + Value (Standard), PCW1JB24KCB + Value (Central reference position)

207181

Style	Order Code	Price Each 1+	25+	50+	100+
Standard	**All Values** ●				
Central reference position	**All Values** ●				

1.5 Watt - Cermet (PRV6), 0.75 Watt

- Mechanical Life 50,000 cycles
- IP67 Fully Sealed & Panel Sealed
- Linear & Logerithmic

Electrical travel	270°	End resistance	1Ω
Mechanical travel	300°	Contact resistance variation	2% or 3Ω
Resistance tolerance	±10%	Dielectric strength (sea level)	1750V
Temperature coefficient	±100ppm/°C (PRV6)	Operating temperature	-55°C to +125°C

(Delivered with nut & crinkled washer)

Stocked in the following OHMIC Values:

Linear

1K = **879-5690** 5K = **879-5703** 10K = **879-5711** 50K = **879-5720** 100K = **879-5738**

Logarithmic

5K = **879-5754** 10K = **879-5762** 50K = **879-5770**

386031

Style	Order Code	Price Each 1+	5+	10+	25+	50+
Linear	**All Values** ●					
Logarithmic	**All Values** ●					

Submersible Cermet Potentiometer

P13SM Series

NEW

FEATURES

- High power rating 1.5 W at 70 °C
- Stainless steel shaft and bushing to endure sea salt water immersion
- Fully sealed IP68 on panel
- Tight temperature coefficient (± 75 ppm/°C typical)

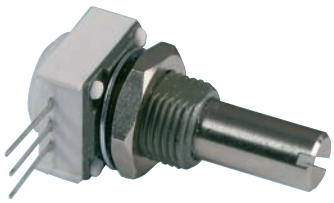
resistance ohm	Power W	Shaft Diameter mm	Voltage V	Mftrs. List No.	Order Code
Shaft Length = 16 mm					
470	1.5	6	26.5	P13SMNFGS471MA	209-8071
1	1.5	6	38.7	P13SMNFGS102MA	209-8072
4.7	1.5	6	84	P13SMNFGS472MA	209-8073
10	1.5	6	122.5	P13SMNFGS103MA	209-8074
47	1.5	6	265	P13SMNFGS473MA	209-8075
Shaft Length = 25 mm					
470	1.5	6	26.5	P13SMNFLS471MA	209-8077
1	1.5	6	38.7	P13SMNFLS102MA	209-8078
4.7	1.5	6	84	P13SMNFLS472MA	209-8079
10	1.5	6	122.5	P13SMNFLS103MA	209-8080
47	1.5	6	265	P13SMNFLS473MA	209-8081
Shaft Length = 50 mm					
470	1.5	6	26.5	P13SMNFRS471MA	209-8082
1	1.5	6	38.7	P13SMNFRS102MA	209-8083
4.7	1.5	6	84	P13SMNFRS472MA	209-8084
10	1.5	6	122.5	P13SMNFRS103MA	209-8085
47	1.5	6	265	P13SMNFRS473MA	209-8086

656145

Resistance /Ω	Order Code	Price Each 1+	5+	10+	+	+
Shaft length 16mm						
470	**209-8071**●					
1	**209-8072**●					
4.7	**209-8073**●					
10	**209-8074**●					
47	**209-8075**●					
Shaft length 25mm						
470	**209-8077**●					
1	**209-8078**●					
4.7	**209-8079**●					
10	**209-8080**●					
47	**209-8081**●					
Shaft length 50mm						
470	**209-8082**●					
1	**209-8083**●					
4.7	**209-8084**●					
10	**209-8085**●					
47	**209-8086**●					

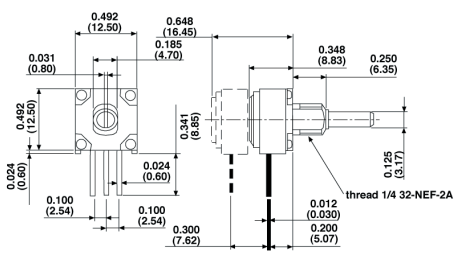
1W – 149 Series – PCB Mounting Cermet Linear

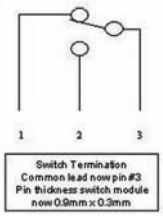
Single, Double Gang & Single Switched



Body H = 12.5, W, = 12.5, D = 8.83 (Double Gang & Single Switched 16.45), Switch module pin thickness = 0.9 x 0.3, Shaft = ¾" (inc bush) x ⅛" dia., Bush = ¼" x 32 UNEF, Shaft = ⅞" (inc bush) x ¼" dia., Bush = ⅜" x 32 UNEF

SINGLE OR DUAL





- New Switch Contact - Common lead is now Pin 3
- Linear cermet PCB or wire terminating
- Square design with metal shafts
- Rotational Life of 25,000 cycles
- Smooth feel
- Temperature stable
- Tin leads (previously gold)
- Supplied with metal lock washer & Nut

149 series are ideal for applications similar to 148 series requiring frequent adjustment.

Power rating @ 70°C	1W
Resistance tolerance	±10%
Temperature coefficient	±150ppm/°C
Electrical rotation	270° ±10° (without rotary switch) 240° ±10° (with rotary switch)
Dielectric Strength - sea level	750VAC
Mechanical rotation	300°±5°
End Resistance	4ohm max.
Operating temperature	40°Cto +150°C

Stocked in the following OHMIC Values:

149-SXN ⅛" shaft single gang

100R = **855-7519** 100K = **855-7543** 2K5 = **855-7578** 500R = **855-7608** 50K = **855-7624**
1K = **855-7527** 1M = **855-7551** 25K = **855-7586** 5K = **855-7616** 500K = **855-7632**
10K = **855-7535** 250R = **855-7560** 250K = **855-7594**

149-SXG ¼" shaft single gang

100R = **855-7373** 100K = **855-7403** 2K5 = **855-7438** 5K = **855-7462** 500K = **855-7497**
1K = **855-7381** 1M = **855-7411** 25K = **855-7446** 50K = **855-7470** 500R = **855-7500**
10K = **855-7390** 250R = **855-7420** 250K = **855-7454**

149-DXG ¼" dia. shaft double gang

1K = **855-7314** 10K = **855-7322** 5K = **855-7330**

149-SSG ¼" dia. shaft single gang switch

1K = **855-7349** 10K = **855-7357** 5K = **855-7365**

388689

Style	Order Code	Price Each 1+	25+	50+	100+	250+
⅛" SXN	**All Values** ●					
¼" SXG	**All Values** ●					
¼" double gang	**All Values** ●					
¼" single gang switched	**All Values** ●					

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Single Turn Potentiometers - continued

Bourns Linear Potentiometer

NEW

BOURNS

6 Pin

Features
- CW or CCW rotary switch
- Linear tapers
- PC board and bushing mount
- Splash seal
- Metal bushing and shaft

Applications
- Test and measurement equipment
- Avionics controls
- Communications equipment
- Medical laboratory equipment

Resistance kohm	Power mW	Mounting	Tolerance	Shaft Diameter mm	Shaft Length mm	Gangs	Turns	Order Code
10	500	Panel	± 20%	6.35	22.23	1	1	210-1649
10	500	Panel	± 20%	6.35	22.23	1	1	210-1650

657707

Mftrs. List No.	Order Code	Price Each 1+	25+	50+	100+	+
56AAD-C28-B15/R80Li¿½	**210-1649** ●					
56AAD-C28-B15/R81Li¿½	**210-1650** ●					

Bourns Linear Potentiometer

NEW

BOURNS

11 Pin

Features
- Push-pull Switch
- Linear tapers
- PC board and bushing mount
- Splash seal
- Metal bushing and shaft

Applications
- Test and measurement equipment
- Avionics controls
- Communications equipment
- Medical laboratory equipment

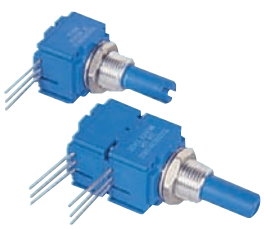
Resistance kohm	Power mW	Mounting	Tolerance	Shaft Diameter mm	Shaft Length mm	Gangs	Turns	Order Code
5	500	Panel	± 20%	6.35	22.23	1	1	210-1644
10	500	Panel	± 20%	6.35	22.23	1	1	210-1645
5	500	Panel	± 20%	3.18	22.23	1	1	210-1647
10	500	Panel	± 20%	3.18	22.23	1	1	210-1648

657711

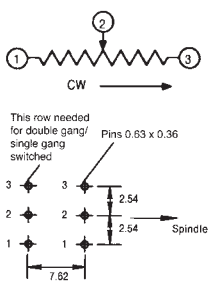
Mftrs. List No.	Order Code	Price Each 1+	25+	50+	100+	+
54AAD-C28-B13/P50L	**210-1644** ●					
54AAD-B28-B15/P50L	**210-1645** ●					
54CAD-E28-B13/P50L	**210-1647** ●					
54CAD-E28-B15/P50L	**210-1648** ●					

1W (Linear), 0.5W (Logarithmic) – 91 Series PCB Mounted Conductive Plastic Single & Double Gang

BOURNS



H=17.5, W=15.9, D=12.7
(Double gang=22.8)
Spindle=22.2 (inc bush x 6.35 dia)
Bush= ⅜ x 32UNEF



Drilling plan

Power rating @ 70°C	Linear 1W Logarithmic 0.5W	Contact resistance variation	1% or 3Ω whichever>
		Dielectric strength (sea level)	1000V ac
Voltage rating	350V ac (or limited by power dissipation whichever<)	Electrical rotation	240°
Resistance tolerance	±20%	Mechanical rotation	300° ± 5°
Temperature coefficient	±1000ppm/°C	Operating temperature	+1°C to +125°C
Terminal resistance	2Ω		

Stocked in the following OHMIC Values:

Linear

2K5 = **935-7742** 5K = **935-7750** 25K = **935-7777** 100K = **935-7793**
1K = **935-7734** 10K = **935-7769** 50K = **935-7785** 250K = **935-7807**

Logarithmic

1K = **935-7815** 10K = **935-7823** 100K = **935-7831**

Double Gang

10K Linear = **935-7840** 10K Logarithmic = **935-7858**

Mftrs. List No. Single Gang: 91A1A-B28-B + Value (Linear), 91A1A-B28-D – Value (logarithmic)
Double Gang: 91A2A-B28-B + Value (Linear), 91A2A-B28-D – Value (logarithmic)

207402

Style	Order Code	Price Each 1+	10+	50+	100+	500+
Linear	**All Values** ●					
Logarithmic	**All Values** ●					
Double Gang	**All Values** ●					

1 Watt – 91 - Square Single-Turn Panel Control

BOURNS

- Single-Turn, In-Line PC Pins
- Virtually infinite electrical circuit isolation
- **Metal shaft slotted / flatted**

Body Width & Depth = 15.88mm,
Body Height = 22.86mm,
Shaft Length (Slotted) = 22.23mm / (Flatted) = 11.13mm,
Lead Length = 15.29mm

Power rating @ 70°C	1W	Independent Linearity	± 5%
Dielectric Withstanding Voltage:		Resistance tolerance	± 20%
Sea Level	1.5kV a.c minimum	Operating Temperature Range	-40°C to +125°C
70,000 Feet	500V a.c minimum		

Slotted Shaft

Stocked in the following OHMIC Values:

5K = **177-0110** 50K = **177-0112** 100K = **177-0113**

Flatted Shaft

Stocked in the following OHMIC Values:

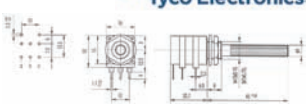
5K = **177-0114** 50K = **177-0115** 10K = **177-0116**

548864

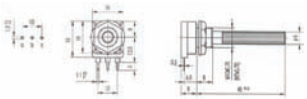
Order Code	Price Each 1+	10+	50+	100+	500+
Slotted shaft					
All Values ●					
Flatted shaft					
All Values ●					

CP16 Series

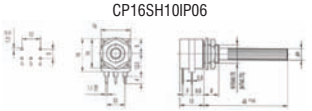
Tyco Electronics



CP16DH10IP6



CP16SH10IP06



CP16SH10IP6

Switched

Dual Gang

- Spindle operated carbon potentiometers
- High reliability
- Linear or logarithmic track
- Single, single switched or dual gang options
- For applications where high insulation resistance and voltage proof are key requirements
- Ideal component for domestic appliances and control systems where safety is of prime importance

Power rating @ 50°C	200mW (linear) 10mW (logarithmic)	Voltage rating	125V
		Mechanical rotation	300° ± 5°
Resistance tolerance	±20%	Operating temperature	-25°C to 70°C

Stocked in the following OHMIC Values:

Single Gang - Linear

100R = **122-7584** 10K = **122-7586** 47K = **122-7588** 220K = **122-7590** 1M = **122-7591**
1K = **122-7585** 22K = **122-7587** 100K = **122-7589**

Single Gang - Logarithmic

4K7 = **122-7593** 10K = **122-7594** 470K = **122-7595**

Single Gang Switched - Linear

4K7 = **122-7596** 10K = **122-7597** 470K = **122-7598**

Single Gang Switched - Logarithmic

10K = **122-7599**

Dual Gang - Linear

4K7 = **122-7600** 10K = **122-7601** 470K = **122-7602**

RoHS ● Compliant ▲ Non-compliant

Dual Gang - Logarithmic

10K = **122-7603** 470K = **122-7605**

451828

	Order Code	Price Each 1+	10+	50+	200+
Single gang - linear	**All Values** ●				
Single gang - logarithmic	**All Values** ●				
Single gang switched - llinear	**All Values** ●				
Single gang switched - logarithmic	**All Values** ●				
Dual gang - linear	**All Values** ●				
Dual gang - logarithmic	**All Values** ●				

P160 Series

16mm Rotary Potentiometer - Audio Applications

Smooth

Splined

- Conductive plastic element
- 100,000 cycle life
- Metal shaft / bushing
- Specifically designed for audio applications
- Splined / Smooth shaft versions available

Voltage Rating 200VAC
Operating Temperature -20°C to +70°C

Smooth Shaft

Resistance	Order Code	Price Each 1+	10+	50+	100+	250+
Logarithmic						
10kohm	**168-4812**●					
25kohm	**168-4815**●					
100kohm	**168-4817**●					
250kohm	**168-4819**●					
500kohm	**168-4821**●					
1Mohm	**168-4823**●					
Linear						
10kohm	**168-4813**●					
25kohm	**168-4816**●					
100kohm	**168-4818**●					
250kohm	**168-4820**●					
500kohm	**168-4822**●					

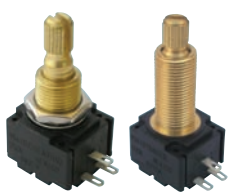
Splined Shaft

528627

Resistance	Order Code	Price Each 1+	10+	50+	100+	250+
Logarithmic						
10kohm	**176-0787**●					
25kohm	**176-0788**●					
100kohm	**176-0789**●					
250kohm	**176-0790**●					
500kohm	**176-0791**●					
1Mohm	**176-0792**●					
Linear						
10kohm	**176-0793**●					
25kohm	**176-0794**●					
100kohm	**176-0795**●					
250kohm	**176-0796**●					
500kohm	**176-0797**●					

Model 95

Premium Guitar Potentiometer



- Single-turn conductive polymer potentiometer
- Very low noise
- Knurled or plain metal shaft
- Audio taper

Power rating	250mW
Voltage rating	350V
Electrical rotation	225° (±5°)
Mechanical rotation	300° (±5°)
Resistance tolerance	± 20%
Operating temperature	-40°C to +125°C
IP rating	IP40
Rotational life	100000 cycles

527023

Logarithmic	Order Code	Price Each 1+	10+	50+	100+	250+
Knurled Shaft						
250kohm	**154-6724**●					
500kohm	**154-6725**●					
Plain Shaft						
500kohm	**154-6726**●					
Knurled Shaft - Long Bushing						
250kohm	**154-6728**●					
500kohm	**154-6729**●					

P231 Series

24mm Rotary Potentiometer - Audio Applications

- Conductive plastic element
- 100,000 cycle life
- Metal shaft / bushing
- Specifically designed for audio applications

Voltage Rating 500V
Operating Temperature -20°C to +70°C

0.25 Watt

Resistance	Order Code	Price Each 1+	10+	50+	100+	250+
10kohm	**168-4824**●					
25kohm	**168-4827**●					
100kohm	**168-4829**●					
250kohm	**168-4831**●					
500kohm	**168-4833**●					
1Mohm	**168-4835**●					

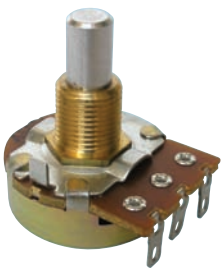
0.5 Watt

528629

Resistance	Order Code	Price Each 1+	10+	50+	100+	250+
10kohm	**168-4825**●					
25kohm	**168-4828**●					
100kohm	**168-4830**●					
250kohm	**168-4832**●					
500kohm	**168-4834**●					

PDB241-GTR Series

24 mm Guitar Potentiometer



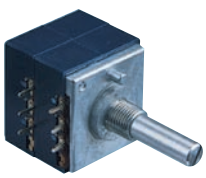
- Carbon potentiometer
- Low torque
- Knurled or plain metal shaft
- Audio taper

Power rating	250mW
Voltage rating	250V
Mechanical rotation	300° (±5°)
Resistance tolerance	± 20%
Operating temperature	-10°C to +70°C
Rotational life	15000 cycles

527054

Logarithmic	Order Code	Price Each 1+	10+	50+	100+	250+
Knurled Shaft						
250kohm	**154-6730**●					
500kohm	**154-6731**●					
Plain Shaft						
250kohm	**154-6732**●					
500kohm	**154-6733**●					

27 mm sq - Dual Logarithmic



Bush=M8 x 0.75

- High quality audio potentiometers for volume control in amplifiers and associated audio equipment
- Available with d.c. motor for remote control applications.

Mftrs. List No: RK27112A00A6=119-1722
RK27112A00A6=119-1722

Power rating	50mW
Voltage rating	30V a.c.
Resistance tolerance	±20%
Motor tolerance	to d.c.
Motor current at end slip	@ d.c.

207238

Logarithmic	Order Code	Price Each 1+	10+	25+	50+
20K dual	**119-1722**●				
50K dual with centre detent	**119-1723**●				

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Single Turn Potentiometers - continued

1Watt – P16 Series Cermet

Integrated Potentiometer and Knob

- Compact linear cermet potentiometer, uniquely integrated into the knob
- Single turn potentiometer
- Hermetically sealed and fitted with a panel seal to **IP67**
- Supplied with nut and washer

L=23.0 (overall)
Dia=16.0 (knob)
Panel cut-out=10.1 dia with 8mm double flat

Power rating @ 40°C	1W	Limiting element voltage	750V RMS
Voltage rating	350V ac	Dielectric strength	2500V RMS
Electrical rotation	270° ±10°	Operating temperature	-40°C to +85°C (plastic knob)
Mechanical rotation	300°± 5°		-40°C to +125°C (metal knob)

Stocked in the following OHMIC Values:

P16 NP (plastic knob) 20%	P16 N (metal knob) 20%	P16 NP (plastic knob) 10%	P16 N (metal knob) 10%
470R = **114-1614**	470R = **114-1676**	470R = **135-7135**	470R = **135-7122**
1K = **114-1617**	1K = **114-1678**	1K = **135-7126**	1K = **135-7114**
2K2 = **114-1618**	2K2 = **114-1680**	2K2 = **135-7132**	2K2 = **135-7119**
4K7 = **114-1619**	4K7 = **114-1681**	4K7 = **135-7136**	4K7 = **135-7123**
10K = **114-1620**	10K = **114-1682**	10K = **135-7127**	10K = **135-7115**
22K = **114-1621**	22K = **114-1683**	22K = **135-7133**	22K = **135-7120**
47K = **114-1622**	47K = **114-1684**	47K = **135-7137**	47K = **135-7124**
100K = **114-1623**	100K = **114-1686**	100K = **135-7129**	100K = **135-7117**
220K = **114-1625**	220K = **114-1687**	220K = **135-7134**	220K = **135-7121**
470K = **114-1626**	470K = **114-1688**	470K = **135-7138**	470K = **135-7125**
1M = **114-1627**	1M = **114-1689**	1M = **135-7131**	1M = **135-7118**

Mftrs. List No. P16N or P16NP + Value

207385

All Values ●				
Metal Knob (P16N) 20%	1+	10+	25+	100+
All Values ●				
All Values ●				
	1+	10+	25+	100+
All Values ●				
Metal Knob (P16N) 10%	1+	+	+	+
All Values ●				

0.5Watt – PA16 Series Conductive Plastic

Integrated Potentiometer and Knob

A revolutionary concept in panel mounted potentiometers. This unique design consists of a knob driving and incorporating a cermet potentiometer. Only the mounting hardware and terminals are situated on the back side of the panel reducing to a minimum the required clearance.

- Version for professional audio applications
- Compact (integrated)
- Fully sealed and panel sealed

L=23.0 (overall)
Dia=16.0 (knob)
Panel cut-out=10.1 dia with 8mm double flat

Power rating @ 40°C	500mW	Mechanical rotation	300°± 5°
Voltage rating	350 ac	Dielectric strength	2500V RMS
Electrical rotation	270° ±10°	Operating temperature	-40°C to +85°C

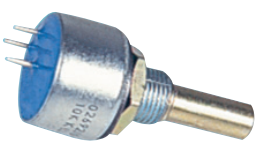
Stocked in the following OHMIC Values:

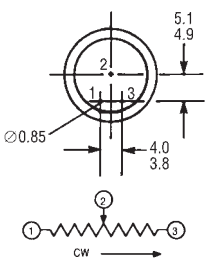
PA16 NP (plastic knob)	4K7 = **151-7316**	22K = **151-7313**	100K = **151-7311**
1K = **151-7309**	10K = **151-7310**	47K = **151-7317**	220K = **151-7315**
2K2 = **151-7312**			

496772

	Price Each			
Order Code	**1+**	**10+**	**25+**	**100+**
All Values ●				

2 Watt – MCU Series Cermet





L = 12.7 (body), 25 (spindle, inc bush)
Dia = 19 (body), 6.35 (spindle)
Mounting bush = ⅜" x 32 UNEF

Power rating @ 70°C	2W	Terminal resistance	<3Ω
Voltage rating	315V dc	Insulation resistance	>MΩ
Resistance tolerance	±10%	Operating temperature	-55°C to +125°C
Mechanical rotation	270°		

Stocked in the following OHMIC Values:

10R = **117-4096**	220R = **117-4100**	4K7 = **117-4105**	100K = **117-4109**
22R = **117-4097**	470R = **117-4102**	10K = **117-4106**	220K = **117-4110**
47R = **117-4098**	1K = **117-4103**	22K = **117-4107**	470K = **117-4111**
100R = **117-4099**	2K2 = **117-4104**	47K = **117-4108**	1M = **117-4112**

Mftrs List No. MCU + Value

207387

	Price Each				
Order Code	1+	25+	50+	100+	500+
All Values ●					

PRV4 Series

Linear 2W & Logarithmic 1W

- Full sealing
- Robust nickel plated brass shaft
- Use of faston 2.86 connections
- Cermet element

Electrical travel	270°	End resistance	4Ω
Mechanical travel	300°	Contact resistance variation	1% or 3Ω
Resistance tolerance	±± 20%	Dielectric strength (sea level)	1500V
Temperature coefficient	±± 200ppm/°C	Operating temperature	-55°C to +125°C

Stocked in the following OHMIC Values:

Linear

1K = **151-7320** 5K = **151-7321** 10K = **151-7322** 50K = **151-7323**

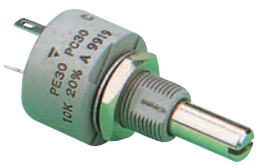
Logarithmic

5K = **151-7327**

496923

		Price Each				
Style	**Order Code**	1+	5+	10+	25+	50+
Linear	**All Values** ●					
Logarithmic	**All Values** ●					

3 Watt - PE30 Series Cermet



- High power rating
- Low temperature coefficient

L = 11.5 (body), Spindle L = 25 slotted (inc bush)
Dia. = 19.7 (body), 6.0 (spindle)

Power rating @ 70°C	3W	Mechanical rotation	300° ±5°
Resistance tolerance	±10%	Dielectric strength	2500V
Temperature coefficient	±100ppm/°C	Operating temperature	-55°C to +125°C
Electrical rotation	270°±10°		

Stock in the following OHMIC Values:

PE30 AM (FL)- Spindle length = 25mm (from mounting surface) slotted

1K = **171-4080**	100R = **114-1579**	4K7 = **114-1586**	100K = **114-1590**
4K7 = **171-4081**	220R = **114-1580**	10K = **114-1587**	220K = **114-1591**
10K = **171-4082**	470R = **114-1581**	22K = **114-1588**	470K = **114-1592**
22K = **171-4083**	1K = **114-1584**	47K = **114-1589**	1M = **114-1593**
47K = **171-4084**	2K2 = **114-1585**		

PE30 AL (FR)- Spindle length = 50mm (from mounting surface) plain round

220R = **171-4085**	2K2 = **114-1632**	10K = **114-1634**	100K = **114-1638**
1K = **114-1631**	4K7 = **114-1633**	22K = **114-1635**	220K = **114-1639**

Mftrs. List No.PE30AM (FL) + Value, PE30AL (FR) + Value

207323

	Price Each				
Order Code	1+	10+	25+	50+	100+
All Values ●					

6180 Series ⅞" Diameter Single Turn Conductive Plastic Precision Potentiometer

Tolerance	± 10%
Input voltage	400V
Power rating	1W
Dielectric strength	750V
Insulation resistance	
Operating temperature	-65°C to +125°C

L=11.6 (body), 12.67 (spindle), 9.53 (bush)
Dia.=22.2 (body), 6.3424 (spindle)
Mounting bush=3/8-32 UNEF Thread

Stocked in the following OHMIC Values:

1K = 152-0665 5K = 152-0667 10K = 152-0666

495981

	Price Each				
Order Code	1+	5+	10+	25+	100+
All Values ●					

RoHS ● Compliant ▲ Non-compliant

1 Watt – 6639 Series Conductive Plastic

BOURNS

- High quality conductive plastic potentiometers
- Essentially infinite resolution and excellent rotational life

L=11.3 (body), 22.2 (spindle, inc bush)
Dia.=22.2 (body), 6.35 (spindle) Mounting bush= ⅜"x32 UNEF

Power rating @ 70°C	1W	Mechanical rotation	360° continuous
Voltage rating	300V ac (or limited by power dissipation whichever <)	Rotational life	10000000 cycles
		Output smoothness	0.1% max.
Resistance tolerance	±15%	Insulation resistance	MΩ
Linearity	±2%	Operating temperature	-65°C to +125°C
Electrical rotation	340° ±3°		

Stocked in the following OHMIC Values:

1K = **935-7700** 5K = **935-7726** 10K = **935-7718**

Mftrs. List No. 66395-001+Value

207183

Order Code	Price Each 1+	10+	25+	50+	100+
All Values ●					

1 Watt – 6630 - Precision Potentiometer

BOURNS

- Lower profile than Model 6639
- Essentially infinite resolution
- Excellent rotational life
- High quality, rugged construction
- Recommended for HMI applications
- Optional anti-rotation lug
- Optional mechanical stop

Body Dia. = 22.23mm,
Shaft Length = 22.23mm,
Lead Length = 9.65mm

Power rating @ 70°C	1W	Output smoothness	0.1% max
Linearity	± 2%	Resistance tolerance	± 15%

Continuous Rotation - Slotted Shaft

Stocked in the following OHMIC Values:

1K = **177-0097** 5K = **177-0098** 10K = **177-0099**

Rotation Stops - Slotted Shaft

Stocked in the following OHMIC Values:

1K = **177-0101** 5K = **177-0102** 10K = **177-0103**

Continuous Rotation - Flatted Shaft

Stocked in the following OHMIC Values:

1K = **177-0104** 5K = **177-0105** 10K = **177-0106**

Rotation Stops - Flatted Shaft

Stocked in the following OHMIC Values:

1K = **177-0107** 5K = **177-0108** 10K = **177-0109**

548786

Rotation	Order Code	Price Each 1+	10+	25+	50+	100+
Slotted shaft	**Order Code**					
Continuous	**All Values** ●					
With stops	**All Values** ●					
Flatted shaft	**Order Code**					
Continuous	**All Values** ●					
With stops	**All Values** ●					

1 Watt - 357 Blue Series Conductive Plastic

VISHAY Vishay Spectrol

- Single turn conductive plastic potentiometers
- Continuous 360° rotation or 340° with stops
- Glass field thermoplastic housing

L = 8.77mm (body), 22.22mm (spindle inc bush),
Dia. = 22.22 (body), 6.34 (spindle)
Mounting bush=3/8" x 32 UNEF

Power Rating	1W	Resistance Tolerance	± 20%
Linearity	±2%	Electrical Rotation	340° ±3°
Output Smoothness	0.1% max	Mechanical Rotation	360°
Rotational Life	5000000 cycles	Shaft Material	Stainless Steel

Stocked in the following OHMIC values

Continuous rotation - slotted shaft

2K = 114-4766 5K = 114-4768 10K = 114-4764 20K = 114-4767 50K = 114-4769

With rotation stops - slotted shaft

1K = 114-4770 5K = 114-4774 10K = 114-4771 20K = 114-4773 50K = 114-4775
2K = 114-4772

Continuous rotation - plain shaft

1K = 135-7044 5K = 135-7048 10K = 135-7045 20K = 135-7047 50K = 135-7051
2K = 135-7046

With rotation stops - plain shaft

1K = 135-7052 2K = 135-7054 5K = 135-7056 10K = 135-7053 50K = 135-7057

628116

Rotation	Order Code	Price Each 1+	5+	10+	25+	50+
Slotted shaft	**Order Code**					
Continuous	**All Values** ●					
With stops	**All Values** ●					
Plain shaft						
Continuous	**All Values** ●					
With stops	**All Values** ●					

Model 157

Bush Mount

VISHAY Vishay Spectrol

- High quality conductive plastic precision industrial potentiometer
- Rugged one piece metal housing
- Long rotational life

L = 13.1, (body), 11.13 (spindle)
Dia = 22.22, (body) 19.05 (recess), 3.17 (spindle)

Power rating @	1W	Mechanical rotation	360° continuous
Dielectric strength	1000V ac40°C	Rotational life	10000000 cycles
Resistance tolerance	±20%	Output smoothness	0.1% max.
Linearity (independent)	±2% (standard)	Insulation resistance	MΩ
Temperature coefficient	±600ppm/°C	Operating temperature	-55°C to + 125°C

Stocked in the following OHMIC Values:

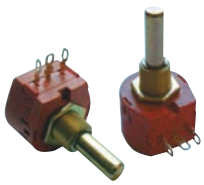
1K = **135-7039** 5K = **135-7042** 10K = **135-7040** 20K = **135-7043**

492823

Order Code	Price Each 1+	10+	25+	50+	100+
All Values ●**135-7039**●					

TW Series – 1 Watt ±10%

Tyco Electronics



- High power wirewound potentiometer
- Proven reliability and excellent linearity
- Robust construction

SMD

Voltage rating	200V
Temperature coefficient	± 100ppm/°C
Operating temperature	-55°C to +125°C
Power rating at 40°C	1W
Mechanical life	10000 operations

L=17.5, Dia=22.6

Stocked in the following OHMIC Values:

25R = **150-2914** 100R = **150-2911** 500R = **150-2921** 2K5 = **150-2916** 10K = **150-2913**
50R = **150-2919** 250R = **150-2915** 1K = **150-2912** 5K = **150-2922** 25K = **150-2917**

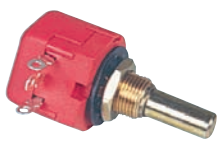
494434

Order Multiple=1

Order Code	Price Each 1+	10+	25+	50+
All Values ●				

1 Watt – ABW1 Series Wirewound

TT electronics



Power rating @ 40°C	1W
Voltage rating	300V dc
Resistance tolerance	±10%
Spindle length	40mm from face
Electrical rotation	265° ±5°
Mechanical rotation	285°±5°
Terminal resistance	0.2ohmor 0.01% whichever≥Ω
Insulation resistance	
Isolation voltage	1000Vac
Operating temperature	-40°C to +90°C

L = 17.45 (body), Spindle = 25.4 (inc bush)
Dia = 23.0 (body), 6.35 (spindle)
Mounting bush = ⅜" x 32 TPI

Stocked in the following OHMIC Values:

50R = **121-9016** 250R = **121-9019** 1K = **121-9021** 5K = **121-9023** 25K = **121-9025**
100R = **121-9018** 500R = **121-9020** 2K5 = **121-9022** 10K = **121-9024** 50K = **121-9026**

Mftrs List No. ABW1 + Value

207422

Order Code	Price Each 1+	25+	50+	100+
Values 50R to 10K ●				
Values 25K to 50K ●				

IMPROVED BACK ORDER DELIVERY

Receive email updates with the exact status, due date and despatch information of all your back order items **farnell.com**

Single Turn Potentiometers - continued

1 Watt – CLR1106 Series Wirewound

TT electronics colvern

Power rating @ 20°C	1W
Voltage rating	250V dc
Resistance tolerance	±10%
Electrical rotation	265°±15°
Mechanical rotation	290° ±10°
Terminal resistance	0.2Ωor 0.01% whichever>
Isolation voltage	1000Vdc
Operating temperature	-25°C to +70°C

L = 17.5 (body)
Spindle L (inc bush) = 15.9 slotted (CLR1106/9S), 19.1 slotted (CLR1106/11S)
Dia = 23.1 (body), 6.35 (spindle)
Mounting bush = ⅜" x 32 UNEF

Stocked in the following OHMIC Values:

CLR1106 9S

50R = **351-003** 250R = **351-027** 1K = **351-040** 2K5 = **351-064** 10K = **351-088**
100R = **351-015** 500R = **351-039** 2K = **351-052** 5K = **351-076**

CLR1106 11S

100R = **351-118** 500R = **351-131** 2K = **351-155** 5K = **351-179** 10K = **351-180**
250R = **351-120** 1K = **351-143**

Mftrs List No. CLR1106/9S + Value CLR1106/11S + Value

207391

Style	Order Code	Price Each 1+	25+	50+	100+	250+
CLR1106 9S	**All Values** ●					
CLR1106 11S	**All Values** ●					

3 Watt – CLR4001 Series Wirewound

TT electronics colvern

Power rating @ 20°C	3W
Voltage rating	500V
Resistance tolerance	±10%
Electrical rotation	275°± 5°
Mechanical rotation	295°± 5°
Terminal resistance variation	0.2Ω or 0.01% whichever >
Isolation voltage	750V dc
Operating temperature	-40°C to +70°C

L=19.2 (body),
Spindle L (inc bush) = 19.1 slotted (CLR4001/11S), 38.1 (CLR4001/22)
Dia = 40 (body), 6.35 (spindle)
Mounting bush = ⅜" x 32 UNEF

Stocked in the following OHMIC Values:

CLR4001/11S

50R = **121-0913** 500R = **121-0917** 2K = **121-0921** 5K = **121-0923** 25K = **121-0925**
100R = **121-0914** 1K = **121-0918** 2K5 = **121-0922** 10K = **121-0924** 50K = **121-0926**
250R = **121-0916**

CLR4001/22

1K = **121-0927** 5K = **121-0930** 10K = **121-0931** 50K = **121-0933** 100K = **121-0934**
2K = **121-0928**

Mftrs. List No. CLR4001/11S + Value CLR4001/22 + Value

207392

Style	Order Code	Price Each 1+	25+	50+	100+	250+
CLR4001/11S	**Values 50R to 10K** ●					
CLR4001/11S	**Values 25K to 50K** ●					
CLR4001/22	**Values 1K to 10K** ●					
CLR4001/22	**Values 50K to 100K** ●					

Multi-Turn Potentiometers

MW12B Series

10 Turn Wirewound

ETI SYSTEMS

Power rating	1W
Resistance tolerance	± 3%
Temperature coefficient	± 20ppm/°C
Angle rotation (electrical and mechanical)	3600°
Linearity	±0.25%
Life expectancy	1000000 turns
Operating temperature	-55°C to +105°C

1/4" - 32 NEF thread

MW10B-10L (bottom terminations)

Stocked in the following OHMIC Values:

1K = **153-5849** 10K = **153-5850** 5K = **153-5851**

Order Code	Price Each 1+	5+	10+	+
All Values ●				

MW10B-10R (end terminations - opposite shaft)

Stocked in the following OHMIC Values:

1K = **153-5852** 5K = **153-5854** 10K = **153-5853**

500866

Order Code	Price Each 1+	5+	10+	+
All Values ●				

91 Series Panel Controls

BOURNS

- Virtually infinite electrical circuit isolation
- Conductive plastic element

Power rating @ 70°C	500mW
Resistance	10kohm
Temperature Coefficient	± 1000ppm/°C
Tolerance	± 20%
Electrical rotation	240° ±5°
Linearity	±0.05%
Contact variation resistance	±0.01Ω
Operating temperature	-40°C to +125°C
Voltage rating	1.5kV

H=22.86, W=15.88, D=15.88

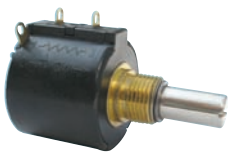
Shaft Type	Shaft Length	Shaft Diameter	Order Code
Slotted	19.1	6.35	168-8404
Slotted	22	6.35	168-8405
Flatted	22	6.35	168-8407
Slotted	22	6	168-8408

528783

Order Code	Price Each 1+	25+	50+	100+	250+
168-8404 ●					
168-8405 ●					
168-8407 ●					
168-8408 ●					

1 Watt, 3 Turn – 3547 Series

BOURNS



Diameter, body	22.479mm
Length, body	19.812mm
Diameter, shaft	6.34mm
Length, shaft	11.2mm
Thread size	3/8" 32-UNEF
Length, bush thread	6.396mm

- 3 turn precision wirewound potentiometers
- High rotational life

Power rating @ 70°C	1W	Temperature coefficient	± 50ppm/°C
Resistance tolerance	± 3%	Operating temperature	-55°C to +125°C

Bush Mount

Stocked in the following OHMIC Values:

Wirewound - Single Gang

1K = **147-0237** 5K = **147-0238** 10K = **147-0239**

494210

Order Code	Price Each 1+	5+	10+
All Values ●			

1Watt, 3 Turn – 533 - Series

VISHAY Vishay Spectrol

L = 19.1, (body), 20.6 (spindle, inc bush)
Dia = 22.2, (body) 6.35 (spindle)
Mounting bush = ⅜"x32 UNEF

- Three turn precision wirewound potentiometers
- Glass filled thermoplastic housing
- Gold plated terminals

Power rating @ 70°C	1W
Resistance tolerance	±5%
Effective rotation	1080°(+10%)
Mechanical rotation	1080°(+10%)
Temperature coefficient	±20ppm/°C
Linearity	±0.25%
Terminal resistance	1Ω
Dielectric strength	1000V ac
Operating temperature	-55°C to +125°C

Stocked in the following OHMIC Values:

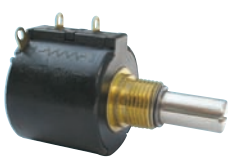
Value	Resolution	Order Code
1K	0.06%	114-4776
5K	0.04%	114-4779
10K	0.03%	114-4778

333662

Order Code	Price Each 1+	5+	10+	25+	50+
	ALL ORDER CODES STOCK GUARANTEED				
All Values ●					

1.5 Watt, 5 Turn – 3548 Series

BOURNS



Diameter, body	22.479mm
Length, body	19.812mm
Diameter, shaft	6.34mm
Length, shaft	11.2mm
Thread size	3/8" 32-UNEF
Length, bush thread	6.396mm

- 5 turn precision wirewound potentiometers
- High rotational life

Power rating @ 70°C	1.5W	Temperature coefficient	±± 50ppm/°C
Resistance tolerance	±± 3%	Operating temperature	-55°C to +125°C

Bush Mount

Stocked in the following OHMIC Values:

Wirewound - Single Gang

RoHS ● Compliant ▲ Non-compliant

1K = **147-0240** 5K = **147-0241** 10K = **147-0242**

494208

Order Code	Price Each 1+	5+	10+
All Values ●			

1.5 Watt, 5 Turn – 535 - Series

- Five turn precision wirewound potentiometers
- Glass filled thermoplastic housing
- Gold plated terminals

L = 19.1, (body), 20.6 (spindle, inc bush)
Dia = 22.2, (body) 6.35 (spindle)
Mounting bush = ⅜" x 32 UNEF

Power rating @ 70°C	1.5W
Resistance tolerance	±5%
Effective rotation	1800°(±10°)
Mechanical rotation	1800°(±10°)
Temperature coefficient	±20ppm/°C
Linearity	±0.25%
Terminal resistance	1Ω
Dielectric strength	1000V ac
Operating temperature	-55°C to +125°C

Stocked in the following OHMIC Values:

Value	Resolution	Order Code	Value	Resolution	Order Code
1K	0.04%	114-4780	10K	0.03%	114-4781
5K	0.03%	114-4782	50K	0.02%	114-4783

333663

Order Code	Price Each 1+	5+	10+	25+	50+
All Values ●					

7280 Series ⅞" Diameter Multi-Turn Wirewound Precision Potentiometer

Tolerance	± 5%
Power rating	2W
Dielectric strength	1000V
Insulation resistance	
Operating temperature	-55°C to +125°C
No. of turns	10

L=11.6 (body), 12.67 (spindle), 9.53 (bush)
Dia.=22.2 (body), 6.35 (spindle)
Mounting bush=3/8-32 UNEF Thread

Stocked in the following OHMIC Values:

1K = **152-0668** 5K = **152-0675** 10K = **152-0669** 20K = **152-0674** 100K = **152-0670**
2K = **152-0673**

495984

Order Code	Price Each 1+	5+	10+	25+	50+
All Values ●					

8140 Series ⅞" Diameter Multi-Turn Hybrid Precision Potentiometer

Tolerance	± 10%
Power rating	2W
Dielectric strength	1000V
Insulation resistance	
Temperature coefficient	+100ppm/°C to +150ppm/°C
Operating temperature	-40°C to +125°C
No. of turns	10

L=11.6 (body), 12.67 (spindle), 9.53 (bush)
Dia.=22.2 (body), 6.35 (spindle)
Mounting bush=3/8-32 UNEF Thread

Stocked in the following OHMIC Values:

1K = **152-0676** 2K = **152-0678** 5K = **152-0679** 10K = **152-0677**

495990

Order Code	Price Each 1+	5+	25+	50+	100+
All Values ●					

3 Watt, 10 Turn – 3540S Series

L = 19.0 (body), 20.6 (spindle, inc bush)
Dia = 22.2 (body), 6.35 (spindle)
Mounting bush = ⅜" x 32 UNEF

Power rating @ 40°C	2W (2W @ 70°C)		whichever <)
Voltage rating	447V ac (or limited by power dissipation	Resistance tolerance	±5%
		Temperature coefficient	±50ppm/°Cmax
Electrical Angle	(3600°+10°–0°)	Terminal resistance	1ohm or 1Ω whichever >
Mechanical Angle	(3600°+10°–0°)	Dielectric strength (sea level)	1000V ac
Linearity	±0.25%	Operating temperature	-55°C to +125°C

Rotational life (no load) 1 million revolutions

Stocked in the following OHMIC Values:

Ohmic Value	Resolution	Order Code	Ohmic Value	Resolution	Order Code	Ohmic Value	Resolution	Order Code
100R	0.055%	170-0931	1K	0.027%	170-0933	50K	0.011%	170-0937
200R	0.042%	170-0932	5K	0.021%	170-0934	100K	0.008%	170-0938
500R	0.031%	935-5561	10K	0.019%	170-0936			

Mftrs. List No. 3540S + Value

207401

Order Code	Price Each 1+	10+	25+	50+	100+
NEW 170-0931●					
NEW 170-0932●					
935-5561●					
NEW 170-0933●					
NEW 170-0934●					
NEW 170-0936●					
NEW 170-0937●					
NEW 170-0938●					

2 Watt, 10 Turn – 3549 Series

	Wirewound	Hibritron®
Power rating @ 70°C	2W	2W
Resistance tolerance	± 3%	± 10%
Temperature coefficient	± 50ppm/°C	± 100ppm/°C
Operating temperature	-55°C to +125°C	-55°C to +125°C

- 10 turn precision wirewound and Hibritron® element potentiometers
- High rotational life
- Servo mounting and dual gang options

	Bush Mount - Single Gang	Bush Mount - Dual Gang	Servo Mount - Single Gang
Diameter, body	22.479mm	22.479mm	22.225mm
Length, body	19.812mm	40.259mm	25.22mm
Diameter, shaft	6.34mm	6.34mm	3.17mm
Length, shaft	12.7mm	12.7mm	8mm
Thread size	3/8" 32-UNEF	3/8" 32-UNEF	-
Length, bush thread	6.396mm	6.396mm	-

Bush Mount

Wirewound - Single Gang

Stocked in the following OHMIC Values:

100R = **147-0217** 10K = **147-0221** 200R = **147-0223** 20K = **147-0225** 5K = **147-0227**
1K = **147-0219** 100K = **147-0222** 2K = **147-0224** 500R = **147-0226** 50K = **147-0228**

Order Code	Price Each 1+	5+	10+
All Values ●			

Wirewound - Dual Gang

Stocked in the following OHMIC Values:

5K = **147-0244**

Order Code	Price Each 1+	5+	10+
All Values ●			

Hibritron® - Single Gang

Stocked in the following OHMIC Values:

1K = **147-0230** 10K = **147-0233**

Order Code	Price Each 1+	5+	10+
All Values ●			

Servo Mount

Wirewound - Single Gang

Stocked in the following OHMIC Values:

1K = **147-0234** 5K = **147-0235** 10K = **147-0236**

494163

Order Code	Price Each 1+	5+	10+
All Values ●			

2 Watt, 10 Turn – 534 - Series

Metric

Imperial

2 Watt, 10 Turn – 534 - Series - continued

- 10 turn precision wirewound potentiometers
- Glass filled thermoplastic housing
- Gold plated terminals

L = 19.1, (body), 20.6 (spindle, inc bush)
Dia = 22.2, (body) 6.0 or 6.35 (spindle)
Mounting bush = ⅜" x 32 UNEF imperial
M9 x 0.75 metric

Power rating @ 70°C	2W	Linearity	±0.2%
Resistance tolerance	±5%	Terminal resistance	1Ω
Effective rotation	3600°(+10%)	Dielectric strength	1000V ac
Mechanical rotation	3600°(+10%)	Operating temperature	-55°C to + 125°C
Temperature coefficient	±20ppm/°C		

Stocked in the following OHMIC Values:

Imperial – ¼" dia. shaft

Ohmic value	Resolution	Order Code	Ohmic value	Resolution	Order Code
100R	0.06%	114-4784	5K	0.02%	114-4793
200R	0.04%	114-4787	10K	0.02%	114-4786
500R	0.03%	114-4792	20K	0.02%	114-4791
1K	0.03%	114-4785	50K	0.01%	114-4794
2K	0.02%	114-4788	100K	0.01%	114-4795

Metric – 6mm dia. shaft

Ohmic value	Resolution	Order Code	Ohmic value	Resolution	Order Code
100R	0.06%	114-4796	5K	0.02%	114-4803
200R	0.04%	114-4799	10K	0.02%	114-4798
500R	0.03%	114-4802	20K	0.02%	114-4801
1K	0.03%	114-4797	50K	0.01%	114-4804
2K	0.02%	114-4800	100K	0.01%	114-4805

333665.343091

Order Code	Price Each 1+	5+	10+	25+	50+
Imperial – ¼" dia. shaft					
Values 100R to 20K ●					
Value 50K ●					
Value 100K ●					
Metric – 6mm dia. shaft					
Values 100R to 20K ●					
Value 50K ●					
Value 100K ●					

MW22 Series

Multi Turn Wirewound Precision Potentiometer

- 3, 5 and 10 turn versions available
- Wirewound element in a high temperature thermo plastic housing
- Recommended for medical equipment (non-life support), test and lab equipment, industrial applications
- Bushing mount standard

Number of turns	3	5	10
Power rating	700mW	1W	2W
Resistance tolerance	±5%	±5%	±5%
Temperature coefficient	±80ppm/°C	±20ppm/°C	±80ppm/°C
Linearity	±0.25%	±0.25%	±0.25%
Angle rotation*	1080°	1800°	360°
Life expectancy	1,000,000 turns		
Operating temperature	-55°C to +105°C		

* Mechanical and electrical

L. = 19.05, Shaft length = 20.83,
Dia. = 22.35, Shaft dia. = 6.35

3 Turn

Stocked in the following OHMIC Values:

100R = **130-7126** 500R = **130-7131** 2K = **130-7127** 10K = **130-7124**
200R = **130-7129** 1K = **130-7123** 5K = **130-7130** 20K = **130-7128**

5 Turn

Stocked in the following OHMIC Values:

1K = **153-5855** 5K = **130-7133** 10K = **130-7132** 20K = **153-5856**

10 Turn

Stocked in the following OHMIC Values:

100R = **130-7116** 1K = **130-7114** 5K = **130-7120** 20K = **130-7119** 100K = **130-7117**
500R = **130-7122** 2K = **130-7118** 10K = **130-7115** 50K = **130-7121**

452154

	Order Code	Price Each 1+	10+	25+	50+
3 Turn	**All Values** ●				
5 Turn	**All Values** ●				
10 Turn	**Values 100R - 20K** ●				
	Values 50K - 100K ●				

2 Watt, 10 Turn – 3590S Series

L = 18.6 (body), 20.6 (spindle, inc bush)
Dia = 22.2 (body), 6.35 (spindle)
Mounting bush = ⅜" x 32 UNEF

Power rating @ 40°C	2W2W	Electrical Angle	(3600° + 10° -10°)3600
Voltage rating	450V ac (or limited by power dissipation whichever <)50	Mechanical Angle	(3600° +10° -0°)50
		Linearity	±0.25%
		Terminal resistance	0.1% or 1Ω whichever>
			-55125
Resistance tolerance	±5%	Dielectric strength (sea level)	1500V ac
Temperature coefficient	50ppm/°C max	Operating temperature	-55°C to +125 °C

Stocked in the following OHMIC Values:

Rotational life (no load) 1 million revolutions

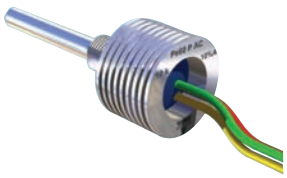
Ohmic Value	Resolution	Order Code	Ohmic Value	Resolution	Order Code	Ohmic Value	Resolution	Order Code
200R	0.039%	170-0939	2K	0.023%	351-581	20K	0.019%	170-0943
500R	0.033%	170-0940	5K	0.025%	170-0942	50K	0.013%	935-5618
1K	0.029%	170-0941						

Mftrs. List No. 3590S + Value

207416

Order Code	Price Each 1+	10+	25+	50+	100+
170-0939 ●					
170-0940 ●					
170-0941 ●					
170-0942 ●					
170-0943 ●					

PE60 Series



- Power panel potentiometer
- High power rating
- Cermet element
- Mechanical strength

Body length = 18mm, Shaft = 6mm dia.

Power rating @ 70°C	6W	Mechanical rotation	300° ±5°
Resistance tolerance	± 20%	Dielectric strength	2500V
Temperature coefficient	± 500ppm/°C	Operating temperature	-25°C to +125°C
Electrical rotation	270°±10°		

Stock in the following OHMIC Values:

PE60 FG - Spindle length = 16mm slotted

4R7 = **156-0936** 10R = **156-0937** 100R = **156-0938** 470R = **156-0939**

PE60 FL - Spindle length = 25mm slotted

4R7 = **156-0940** 10R = **156-0941** 100R = **156-0942** 470R = **156-0944**

527113

Order Code	Price Each 1+	10+	25+	50+	100+
All Values ●					

AR Series

10 Turn Wirewound – Precision Potentiometer

- Precision wirewound Potentiometer
- 3 gangs (max)
- Resistance range from 10 ohms to 500K Ohms
- Wide range of standard values
- Rotational Load: Life 2 mil. shaft rev. + 900 hrs. at rated wattage at 40°C

Power Rating	5W
Resistance Tolerance (min)	±1%
Dielectric Strength	1000V rms
Temperature range	-65°C to 85°C (Static) -40°C to 85°C (Dynamic)

Resistance (Ω)	Mftrs. List No.	Order Code	Resistance (Ω)	Mftrs. List No.	Order Code
500ohm	AR500L.25LF	943-1810	50kohm	AR50KL.25LF	943-1888
1kohm	AR1KL.25LF	943-1837	100kohm	AR100KL.25LF	943-1896
2kohm	AR2KL.25LF	943-1845	200kohm	AR200KL.25LF	943-1900
5kohm	AR5KL.25LF	943-1853	300kohm	AR300KL.25LF	943-1918
10kohm	AR10KL.25LF	943-1861	500kohm	AR500KL.25LF	943-1926
20kohm	AR20KL.25LF	943-1870			

411614

Order Code	Price Each 1+	5+	10+	25+	50+
All Values ●					

8 Watt, 10 Turn – 860 Series

- 10 turn wirewound potentiometer
- Moulded glass filled thermoplastic case
- Stainless steel non-magnetic shaft

L=50.8 (body), 20.62 (spindle inc bush)
Dia.=46.02 (body). 6.34 (spindle)
Mounting Bush= ⅜" x 32 UNEF-2A

Power rating	8W @ 40°C ambient derated linearly to zero @ 125°C	Dielectric strength	1000 Volts RMS @ 60 Hz
		Rotational life	500000 shaft revolutions
Temperature range	-55°C to +125°C	Mechanical rotation	3600°+ 4°C -0°C
Tolerance	±3%		

224003

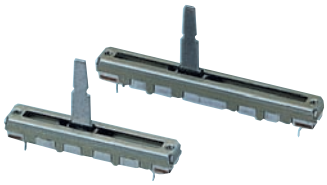
RoHS ● Compliant ▲ Non-compliant

Value	Order Code	Price Each 1+	5+	10+	20+
100R	**157-685**▲				
1K	**157-703**▲				
2K	**157-715**▲				
5K	**157-727**▲				
10K	**157-739**▲				

Slide Potentiometers

Standard Slide Potentiometers

ALPS



- Slide potentiometers available in three lengths
- Low profile PCB mounting for volume, tone and balance control in audio equipment and graphic equalizers.

Travel (mm)	Mounting hole Pitch	Width	Rated Power (W)	Rated Voltage (a.c.)
30	41	8	100	150
45	51	8	125	150
60	71	8	100	150

Resistance tolerance ±20%
N.B the 60mm Travel version are stereo

207230

Travel	Value	Order Code	Price Each 1+	10+	25+	50+
Logarithmic						
30	10K	**119-1726**●				
45	10K	**119-1727**●				
60	10K	**119-1728**●				
Linear						
30	50K	**119-1729**●				
45	50K	**119-1730**●				
60	50K	**119-1732**●				

N Faders Master Controls

ALPS

- Slider potentiometer, hard wire terminations
- Applications include fader for studio mixers.

Resistance Ω	Lever Travel	Fixing Centres	Width	Mftrs. List No.	Order Code
Single					
10K	60	80	16	RS60N11	**119-1712**

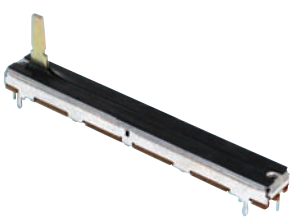
207233

Logarithmic	Order Code	Price Each 1+	10+	25+	50+
Single					
10K 60mm Travel	**119-1712**●				

Slide Potentiometers

BOURNS

PTA/PTB Series



- Carbon element
- Metal housing
- Single and dual gang

Travel (mm)	Resistance kΩ	Mounting hole Pitch	Dimensions W	H	D	Rated Power (W)	Rated Voltage (a.c.)	Mftrs. List No.
	Audio Taper - Single Gang							
45	10	56	60	20.5	9	125	150	PTA4543-2015DP-A103
60	10	71	75	20.5	9	125	150	PTA6043-2015DP-A103
	Audio Taper - Dual Gang							
45	10	56	60	20.5	9	60	150	PTA4544-2015DP-A103
60	10	71	75	20.5	9	60	150	PTA6044-2015DP-A103
60	10	80	88	18	16	125	150	PTB6044-2010BP-A103
100	10	120	128	18	16	250	150	PTB0144-2010BP-A103
	Linear Taper - Single Gang							
45	10	56	60	20.5	9	250	200	PTA4543-2015DP-B103
60	10	80	88	18	16	250	200	PTB6043-2010BP-B103
60	10	71	75	20.5	9	250	200	PTA6043-2015DP-B103
100	10	120	128	18	16	500	200	PTB0143-2010BP-B103

Resistance tolerance ± 20%

Operating temperature -10°C to +50°C

528779

Travel	Value	Order Code	Price Each 1+	10+	25+	50+	100+
Audio Taper - Single Gang							
45	10K	**168-8414**●					
60	10K	**168-8417**●					
Audio Taper - Dual Gang							
45	10K	**168-8416**●					
60	10K	**168-8413**●					
100	10K	**168-8412**●					
Linear Taper - Single Gang							
45	10K	**168-8415**●					
60	10K	**168-8410**●					
60	10K	**168-8411**●					
100	10K	**168-8409**●					

LCP8 Series

Miniature Linear Motion Potentiometer

ETI SYSTEMS

- Conductive plastic element
- Bronze bearings

L = 31.99, W = 7.29, H = 8.18

Power rating	200mW	Linearity	±2%
Resistance tolerance	±15%	Operating temperature	-30°C to +105°C
Temperature coefficient	±400ppm/°C(500Ω = 80ppm/°C)		

452164

Resistance (kΩ)	Order Code	Price Each 1+	10+	25+	50+
LCP8P - Plain shaft					
5	**130-7091**●				
LCP8S - Plain Shaft with internal spring return					
5	**130-7093**●				
10	**130-7092**●				
LCP8P - Threaded shaft					
10	**130-7094**●				

Servo Mount Potentiometers

1 Watt – 358 Series Conductive Plastic

VISHAY

- 7/8" Diameter single turn
- Compact size, advanced design technology
- Offers a cost effective solution to your potentiometer requirements

L=15.6 (body), 22 (spindle)
Dia.=22.7 (body), 6.0/6.35 (spindle)

Power rating @ 70°C	1W	Electrical rotation	340° ±3°
Dielectric withstanding voltage	500V	Rotational life	5000000 cycles
Resistance tolerance	±10%	Insulation resistance	MΩ
Linearity	±0.1%	Operating temperature	-55°C to +125°C

340° Mechanical Rotation (6mm Shaft ∅)

Stocked in the following OHMIC Values:
1K = **130-5998** 2K = **130-5999** 10K = **130-6001** 20K = **130-6002**

340° Mechanical Rotation (6.35mm Shaft ∅)

Stocked in the following OHMIC Values:
1K = **130-5993** 2K = **130-5994** 5K = **130-5995** 10K = **130-5996** 20K = **130-5997**

Continuous Mechanical Rotation (6mm Shaft ∅)

Stocked in the following OHMIC Values:
1K = **130-5982** 2K = **130-5983** 5K = **130-5984** 10K = **130-5985** 20K = **130-5986**

Continuous Mechanical Rotation (6.35mm Shaft ∅)

Stocked in the following OHMIC Values:
2K = **130-5988** 5K = **130-5989** 10K = **130-5990**

452122

Mechanical Rotation	Order Code	Price Each 1+	5+	25+	50+
340°	**All Values** ●				
Continuous	**All Values** ●				

Servo Mount Potentiometers - continued

1 Watt – 6539S Series, Conductive Plastic

BOURNS

- High quality conductive plastic servo mount potentiometer
- Essentially infinite resolution, excellent rotational life

L = 12.7 (body), 9.53 (spindle)
Dia = 22.2 (body), 19.05 (recess), 3.17 (spindle)

Power rating @ 70°C	1W	Rotational life	10000000 cycles
Voltage rating	300V ac (or limited by	Output smoothness	0.1% max
Resistance tolerance	± 15%	Insulation resistance	MΩ
Linearity	±340°	Operating temperature	-65°C to + 125°C
Mechanical rotation	360° continuous		

Stocked in the following OHMIC Values:
1K = **170-0944** 2K = **653-032** 5K = **170-0945** 10K = **238-089**

207191

Order Code	Price Each 1+	10+	25+	50+
170-0944●				
653-032●				
170-0945●				
238-089●				

1 Watt – 157 Series, Motion Transducer

±2% and ±0.5% Linearity

VISHAY Vishay Spectrol

121-3240

121-3250

- High quality conductive plastic precision servo mount potentiometer
- Optional standard ±2% or ±0.5% linearity
- Each potentiometer supplied with mounting kit (three clamps, nuts and instructions)
- Mounting kit also available separately

L = 13.1, (body), 11.13 (spindle) Dia = 22.22, (body)
19.05 (recess), 3.17 (spindle)

Power rating @ 40°C	1W	Mechanical rotation	360° continuous
Dielectric strength	1000V ac	Rotational life	10000000 cycles
Resistance tolerance	±20%	Output smoothness	0.1% max.
Linearity (independent)	±2% (standard)	Insulation resistance	MΩ
	±0.5% (special)	Operating temperature	-55°C to + 125°C
Temperature coefficient	±600ppm/°C		

Stocked in the following OHMIC Values:
Standard 157-21 ±2% linearity
1K = **121-3240** 2K = **121-3241** 5K = **121-3242** 10K = **121-3243**
Standard 157-22 ±0.5% linearity
1K = **121-3244** 2K = **121-3245** 5K = **121-3247** 10K = **121-3248** 20K = **121-3249**
Mftrs. List No. 157-21 + Value, 157-22 + Value

207292

	Order Code	Price Each 1+	10+	25+	50+	100+
157-21 ±2% lin.	**All Values** ●					
152-9002 ±0.5% lin.	**All Values** ●					
Mounting kit	**121-3250**●					

2 Watt, 10 Turn – 534-Blue Series, Wirewound

VISHAY Vishay Spectrol

- Precision wirewound servo mount potentiometer
- Linearity ±2%
- Glass filled thermoplastic housing
- Gold plated terminals
- Each potentiometer supplied with mounting kit and instructions)

Stocked in the following OHMIC Values:

Value	Resolution	Order Code
1K	0.03%	114-4806
5K	0.02%	114-4808
10K	0.02%	114-4809

Power rating @ 70°C	2W	Mechanical rotation	3600° continuous
Dielectric strength	1000V ac	Rotational life	>1000000 cycles
Resistance tolerance	±5%	Insulation resistance	MΩ
Linearity (independent)	±0.2% (standard)	Operating temperature	-55°C to + 125°C
Temperature coefficient	±20ppm/°C		

333666

Order Code	Price Each 1+	5+	10+	25+
All Values●				

Analogue Output Potentiometers

Non-Contacting Analog Rotary Position Sensor

BOURNS

NEW

- Non-contacting magnetic technology
- Highly resistant to vibration/ shock
- Highly resistant to fluid/dust ingress
- Programmable at factory for zero position
- Robust design for industrial applications
- Highly repeatable

Body: H=17.14mm, ∅=22.23mm,
Shaft: L=11.5mm, ∅=3.18mm

Supply voltage	4.5V DC to 5.5V DC	Independent Linearity	±0.5 %
Supply current	20mA max	Resolution	12 bit
Mechanical rotation	Continuous	Operating temperature	-40°C to +125°C
Output signal	Analogue		

660205

Order Code	Price Each 1+	25+	50+	100+
207-0267●				

Hall Effect Sensor

34-THE Series

NEW

VISHAY

- Model dedicated to all applications in harsh environments
- Very long life: 50M cycles for servo, 10M cycles for bushing

Bush
Body = 22.1 mm x 22.2 mm dia
Shaft = 22 mm (incl. bush) x 3.175 mm dia.

Servo
Body = 21.1 mm x 22.2 mm dia
Shaft = 12.7 mm (incl. bush) x 3.175 mm dia.

Operating temperature	-40°C to +85°C	Angle rotation	3600°
Supply voltage	5 V DC	Linearity	± 1 %
Supply current	16 mA	IP rating	IP 50

635901

Type	Mftrs. List No.	Order Code	Price Each 1+	10+	50+	100+
Bush	34THEB1BTA2S22	**189-3281**●				
Servo	34THES1BTA2S22	**189-3283**●				

351-HE Sensor

Hall Effect Technology

VISHAY Vishay Spectrol

- Accurate linearity down to: ± 0.5 %
- All electrical angles available up to: 360° - No dead band
- Long life
- Model dedicated to all applications in harsh environments

Body = 15.8 x 22.7 dia
Shaft = 22 (incl. bush) x 6.35 dia

Supply voltage	4.5 to 5.5V	Independent Linearity	±0.5%
Supply current	10mA max	IP Rating	IP50
Angle rotation	360°	Operating temperature	-45°C to +125°C

527108

Mftrs. List No.	Order Code	Price Each 1+	10+	50+	100+	+
351HE0B4WA1S22	**156-0935**●					

601-HE Series Smart Sensor

Hall Effect Technology

NEW

VISHAY

- Absolute ratiometric output over 360° range with no dead band
- Self-contained package not requiring external electronic interface
- Contactless technology
- Reverse polarity protection
- Non volatile positioning output

H = 44, W = 33, D = 20 (body)
Shaft = 20 (incl. bush) x 6.35 dia

Supply Voltage Range	4.5V to 5.5V	Independant Linearity	± 1%
Supply Current	16mA	IP Rating	IP54
Rotation Speed	120 RPM	Operating Temperature	-45°C to 85°C

621311

Direction	Mftrs. List No.	Order Code	Price Each 1+	10+	50+	100+
	601HE0000B01	**186-2928**●				

RoHS ● Compliant ▲ Non-compliant

981 HE Sensor

Hall Effect Technology

- Accurate linearity down to: ± 0.5 %
- Easy mounting principle
- D-Shaft

Shaft - Length 16.2mm, Dia 15mm

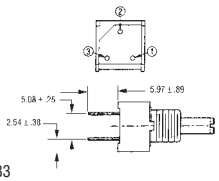
SKU	**1713988**	**1713989**
Mftr. No	981HE0B4WA1F16	981HE2B1WA1F16
Voltage, DC	5V	
Linearity	0.5%	
Rotational Speed	120rpm	
Operating Temperature	-45°C to +125°C	
Supply Current	10mA	
Rotation Mechanical Angle	360°	90°
Features	Cont. rotation & antirotation pin.	Spring return CW

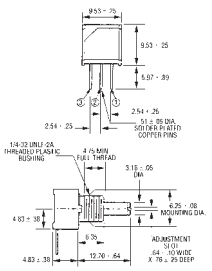
536554

Mftrs. List No.	Order Code	Price Each 1+	10+	50+	100+
981HE0B4WA1F16	**171-3988**				
981HE2B1WA1F16	**171-3989**				

Digital Output Potentiometers

3315 Series Conductive Plastic





Body H=9.53, W=9.53, D=4.83
Shaft=12.7 (inc bush) x 3.18
Bush=¼-32 UNEF-2A

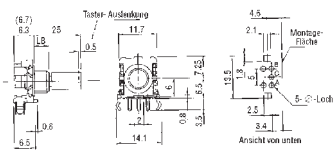
- Miniature package, long operating life for PCB or bush mounting
- On clockwise rotation of the shaft a 2 bit gray code output is produced where channel A leads channel B by 90°.

Contact rating	100mA @ 16Vd.c. or 0.1W	Mechanical rotation	Continuous
Dielectric strength	900V a.c.	Insulation resistance	>MΩ
Maximum operating speed	120 rpm	Operating temperature	-40°C to + 125°C
Rotational life	100000 cycles	Pulses per revolution	6

224004

	Order Code	Price Each 1+	25+	50+	100+
Encoder 6 cycles 3315C	**935-4018**				
Encoder 6 cycles 3315Y	**935-4034**				
Encoder 16 cycles 3315C	**935-4026**				
Encoder 16 cycles 3315Y	**935-4042**				

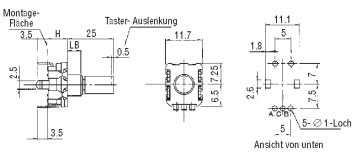
Low Profile 11mm sq



Bush=M7 x 0.75

- Low profile, high precision audio type encoder
- PCB or chassis mounting with momentary switch

Mftrs. List No. EC11B15242= 119-1733
EC11B15244= 119-1734



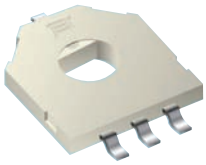
Voltage rating	5V d.c.	Output signal	Channel A leads Channel B by 60°+/-30° clockwise rotation
Maximum current	10mA		
Rotational life	15000 cycles		

207244

	Order Code	Price Each 1+	10+	50+	100+	250+
Horizontal	**119-1733**					
Vertical	**119-1734**					

Rotary Position Sensor

3382 Series - Surface Mount



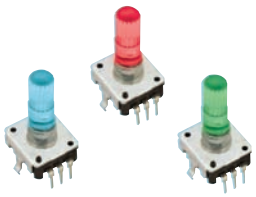
Applications:
- Volume control on audio equipment
- Motion controllers
- Dishwasher control systems
- Automotive temperature range
- Surface mount
- Dustproof
- One million rotational cycles
- Thin profile

H = 2.11, W = 11, D = 12.04mm
Shaft Diameter = 4 mm

537881

Mftrs. List No.	Order Code	Price Each 1+	10+	50+	100+	500+
3382G-1-103G	SMD **171-7387**					

DPL12 Series



- 12mm Rotary Encoder with LED
- Incremental
- Push on switch option
- Various shaft lengths
- LED colour and detent options

Operating Temperature	-40°C to +85°C	Rotational life (cycles)	30000
Operating Temperature	360°	Roational speed	60rpm
No. of Pulses	24	Dielectric strength	300V

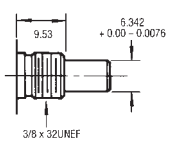
LED Colour	Shaft Length	Shaft ∅	Mftrs. List No.	Order Code
Without Switch - No Detents				
Red	24	6	DPL12VN24A24KR	157-2255
Red	20	6	DPL12VN24A20FR	157-2256
Green	24	6	DPL12VN24A24KG	157-2257
Green	20	6	DPL12VN24A20FG	157-2259
Blue	24	6	DPL12VN24A24KB	157-2261
Blue	20	6	DPL12VN24A20FB	157-2262
Without Switch - 24 Detents				
Red	24	6	DPL12V2424A24KR	157-2263
Red	20	6	DPL12V2424A20FR	157-2264
Green	24	6	DPL12V2424A24KG	157-2265
Green	20	6	DPL12V2424A20FG	157-2266
Blue	24	6	DPL12V2424A24KB	157-2267
Blue	20	6	DPL12V2424A20FB	157-2268
With Switch - No Detents				
Blue / Green	25	6	DPL12SVN24A25K1	157-2269
Blue / Green	21	6	DPL12SVN24A21F1	157-2270
Blue / Orange	25	6	DPL12SVN24A25K2	157-2272
Blue / Orange	21	6	DPL12SVN24A21F2	157-2273
Green / Red	25	6	DPL12SVN24A25K3	157-2274
Green / Red	21	6	DPL12SVN24A21F3	157-2275
With Switch - 24 Detents				
Blue / Green	25	6	DPL12SV2424A25K1	157-2276
Blue / Green	21	6	DPL12SV2424A21F1	157-2278
Blue / Orange	25	6	DPL12SV2424A25K2	157-2279
Blue / Orange	21	6	DPL12SV2424A21F2	157-2280
Green / Red	25	6	DPL12SV2424A25K3	157-2281
Green / Red	21	6	DPL12SV2424A21F3	157-2282

527124

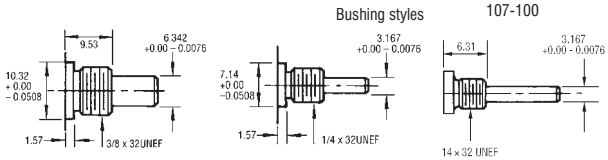
Order Code	Price Each 1+	10+	50+	100+	250+
Without Switch					
All Values					
With Switch					
All Values					

EN Series Rotary Optical Encoder

Body
H=21.21,
W=15.88,
D=18.50,
Spindle L=22.23



Bushing styles 107-100



107-101 (Ball bearing) 107-102 (Ball bearing) 452-348

- Suitable for digital systems where both magnitude and direction of adjustment must be provided
- 2 bit gray code output produced, channel A leads channel B by 90° (clockwise)
- Ideal as a digital panel control or as position sensing devices in applications where long life, high resolution and precise linearity are critical.

Digital Output Potentiometers - continued

EN Series Rotary Optical Encoder - continued

Supply voltage	5V dc ±0.25V dc	Connections	1 Ground
Supply current	26mA max		2 NC
Mechanical rotation	Continuous		3 Output A
Resolution			
(935-8242, 935-8277, 9358250)	128 pulses per revolution		4 +Vcc
(935-8629)	256 pulses per revolution		5 Ouput B
Operating temperature	-40°C to +85°C		

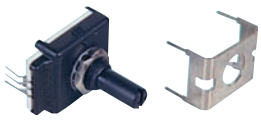
Mftrs. List No. ENA1J-B28-L00128L = 935-8242, ENC1J-D28-L00128L935-8250
ENS1J-B28-L00256L935-8269

207180

Order Code	Price Each 1+	25+	50+	100+
935-8242●				
935-8269●				
935-8250●				

EC Series Digital Contacting Encoder

BOURNS



Body D=27.6, W=22.2, H=7.4
Shaft=19.0 (inc bush) x 6.32 dia,
Bush=M9 x 0.75

- Low cost digital contacting encoders, long operating life and high operating temperature characteristics
- 2 bit gray code output is produced, channel A leads channel B by 90° (clockwise)
- Optional snap-on PCB mounting bracket

Contact rating	10mA @ 10V, or 0.1W	Maximum operating speed	120 rpm
Voltage rating	350V ac (or limited by power dissipation whichever <)	Rotational life	200000 revs
		Mechanical rotation	Continuous
		Insulation resistance	>
Dielectric strength	1000V ac	Operating temperature	+1°C to + 125°C

Cycles Per Revolution	Detents	Mftrs List No.	Order Code
6	24	ECW0J-B24-AC0006	109-111
24	24	ECW1J-B24-AC0024L	120-0080

207187/406088

	Order Code	Price Each 1+	25+	50+	100+
Encoder, 6 cycles	109-111●				
Encoder, 24 cycles	120-0080●				
PCB mounting bracket	219-113				

Absolute Contacting Encoder – ACE

BOURNS

- Low cost panel or PCB mounting
- Absolute contacting encoder giving 8 bit parallel grey code output of each of 128 rotary positions
- May be interfaced directly with a microprocessor
- Removes the need for the pulse counting/direction discrimination software required for incremental encoders
- Technical support for output code truth table

H=27.9, W=22.2,
L=8.8 (body above PCB)
Spindle and bush=19, Bush=M9

Output	8 bit grey code	Rotational life	50000 shaft revolutions
Positions per revolution	128	Mechanical rotation	Continuous360°
Contact rating	10mA @ 10V or 0.1W	Operating temperature	-25°C to + 125°C
Dielectric strength	1000V AC minimum	Max operating speed	120 rpm
Insulation resistance	≥MΩ		

Mftrs. List No: EAW0J-B24-AE0128L

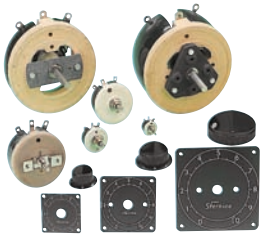
207267

Order Code	Price Each 1+	25+	50+	100+
935-8234●				

Rheostats

12 to 500 Watt - RT Series

VISHAY



- Ceramic core vitreous enamel coated wirewound rheostats
- High power rating up to 500 Watts
- Compact size per rating
- Wide temperature range
- Dial and knob supplied separately

12 Watt	Body L = 18,	Dia. = 22,	Shaft L = 22, (inc bush),	Dia. = 3.0
25 Watt	Body L = 28,	Dia. = 38,	Shaft L = 22, (inc bush),	Dia. = 6.0
55 Watt	Body L = 39,	Dia. = 60,	Shaft L = 25, (inc bush),	Dia. = 6.0
100 Watt	Body L = 56,	Dia. = 85,	Shaft L = 25, (inc bush),	Dia. = 6.0

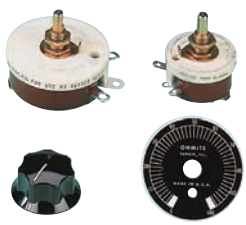
Power rating measured at	25°C	Dielectric strength	
Resistance tolerance	± 10%	12, 25 & 55W	1000Vrms
Mechanical rotation	300°	100W	1500V rms
Operating temperature	-55°C to +320°C	250W	2000V rms
		500W	3500V rms

207325

Value	Order Code	Price Each 1+	5+	10+	25+	50+
12 Watt						
100R	114-1308●					
150R	114-1309●					
220R	114-1310●					
1K	114-1312●					
20JF Knob	121-3369●					
25 Watt						
2R2	114-1313●					
4R7	114-1315●					
10R	114-1316●					
15R	114-1317●					
22R	114-1318●					
47R	114-1319●					
100R	114-1320●					
150R	114-1321●					
220R	114-1322●					
470R	114-1323●					
1K	114-1324●					
1K5	114-1325●					
2K2	114-1327●					
4K7	114-1328●					
29JF Knob	121-3363●					
CG57 Dial	121-3366●					
55 Watt						
10R	114-1329●					
22R	114-1330●					
100R	114-1331●					
330R	114-1332●					
1K	114-1333●					
2K2	114-1334●					
4K7	114-1335●					
10K	114-1336●					
41JF Knob	121-3364●					
CG78 Dial	121-3367●					
100 Watt						
22R	114-1337●					
100R	114-1339●					
1K	114-1341●					
41JF Knob	121-3364●					
CG78 Dial	121-3367●					

Rheostats – Power Wirewound

OHMITE



- High power rheostats, wirewound element on ceramic core
- Robust design, metal graphite contact bush
- Applications include test equipment and laboratory use

Shaft length = 8.7		Bush length=9.5		Panel cut out=9.5	
Dia	RHS 39.6	Depth behind panel	RHS 34.9	Anti rotation hole offset 12.7	
	RJS 58.6		RJS 34.9		

Wattage rating in free air derate up to 50% depending on ventilation

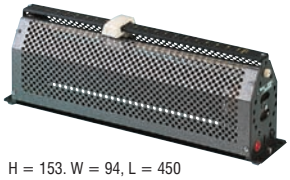
224002

RHS 25 Watt	Order Code	Price Each 1+	10+	25+	50+
50R	105-0163▲				
1K	105-0254▲				
10K	105-0333▲				
RJS 50 Watt					
6R	105-0412▲				
1K	105-0552▲				
2K5	105-0576▲				
Accessories					
Knob	105-0310▲				
Dial Plate	105-1325▲				

RoHS ● Compliant ▲ Non-compliant

High Power Rheostat

Tyco Electronics



H = 153. W = 94, L = 450

- High power variable rheostat for laboratory use
- Pressed steel cover with ceramic adjustment handle
- 4mm socket connections to wire wound element

Resistance (Ω)	Max. Cont Power (W)	Max Current (A)	Internal Element Size	Mftrs List No.	Order Code
5.6	560	10	400 x 60	BFA105R6	157-454
22	550	5	400 x 60	BFA522R	157-466
33	428	4	400 x 60	BFA433R	157-478
120	480	2	400 x 60	BFA2120R	157-480
560	560	1	400 x 40	BFA1560R	157-491

Wire material CuNi44 Resistance tolerance ±10%

207275

Resistance	Order Code	Price Each 1+	5+
5R6	**157-454**●		
22R	**157-466**●		
33R	**157-478**●		
120R	**157-480**●		
560R	**157-491**●		

Potentiometer Accessories

Potentiometer Hardware

121-3371 351-994 352-007 352-019

Nut finish: Nickel plated.

227235

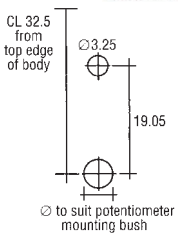
	Mftrs. List No.	Order Code	Price Each 10+	100+	1K+
Brass	N602	**121-3371**●			
Steel	W901	**351-994**●			
Steel	W902	**352-007**●			

Counting Dials

10 Turn Digital - 15 Series

VISHAY Vishay Spectrol

H=44.5, W=25.4, D=22



Panel cut-out

- 10 turn digital counter dial
- Three black dials with white markings
- Supplied with key for tightening the locking set screws

Operating temperature -20°C to +50°C

Mftrs. List No.	Finish	Protective Window	Order Code
15A11B10	Satin Chrome	No	121-9775
15A31B10	Satin Chrome	Yes	121-9780
15A33B10	Black Chrome	Yes	121-9781

207384

Finish	Order Code	Price Each 1+	10+	25+	50+	100+
Without window						
Satin15A11B10	**121-9775**					
With window						
Satin15A31B10	**121-9780**					
Black15A33B10	**121-9781**					

10 Turn

BOURNS

- 10 turn digital counting dial
- Accurate to 1/500th per revolution
- White markings on a black background
- Recessed mounting reducing front panel projection
- Supplied with lock nut and allen key

Body dia=28 max, D=33, Shaft dia=6.35
Projection from front panel=17
Panel cut-out max=28.9 dia, Panel thickness=3.5

Operating temperature -10°C to +60°C

207169

Mftrs. List No.	Order Code	Price Each 1+	10+	25+	50+	100+
CT-26-6A	**107-3849**●					

7/8" (22mm) Dia – 10 Turn

TT electronics BI Technologies

- Precision 10 turn analogue counting dial
- Dial finish has white numerals in black matte
- Black markings on aluminium finish
- Housing finish is a satin chrome

Body dia = 46.0, D = 24.6

416093

Mftrs. List No.	Order Code	Price Each 1+	5+	10+	50+	100+
2696	**943-1942**●					

7/8" (22mm) Dia – 15 Turn

TT electronics BI Technologies

- Precision 15 turn analogue counting dial
- Housing comes in a satin chrome finish
- The dial comes in black numerals on satin chrome
- Positive action locking machanism

Body dia = 46.0, D = 24.6

416094

Mftrs. List No.	Order Code	Price Each 1+	5+	10+	50+	100+
RB	**943-1950**●					

15 Turn

BOURNS

- Full metal precision counting dial
- Excellent legibility black marking on chrome background
- High quality cast and hard chrome housing
- High force click brake
- Replaces the popular H-507-6

Mftrs. List No. H22-6A

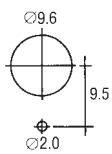
Body dia=22.2, D=24, Shaft dia=6.35

207265

Order Code	Price Each 1+	25+	50+	100+
868-887				

15 Turn - 18 (PR2) Series

VISHAY Vishay Spectrol



Panel cut-out

- No backlash
- Compact-requires minimal panel space
- For use with precision potentiometers or other rotating devices, up to 15 turns
- Designed for metal shaft
- High force 'Click Brake'

Operating temperature -20°C to 85°C

Body dia=46.0, D=25.4 Body dia=22.2, D=22.2

Dia.	Mftrs. List No.	Finish	Order Code
22.2	18A11B10	Satin chrome, black markings	122-4957
22.2	18A21B10	Black chrome, white markings	122-4958

443569

Finish	Order Code	Price Each 1+	10+	25+	50+	100+
Chrome/Black	**122-4957**●					
Black/White	**122-4958**●					

Counting Dials - continued

Model 21

15 Turn

- Round vernier scale
- 1499 turns total
- Satin chrome finish with black markings
- 1/4" bore shaft adapter

Body dia=46.02, D=25.4

494084

Order Code	Price Each 1+	10+	25+	50+	100+
135-7058●					

7/8" (22mm) Dia – 20 TURN

2606 Series

- Precision 20 turn analogue counting dial
- Locking Mechanism is a positive action with detent
- Knob material is a black plastic
- Black numerals on satin chrome

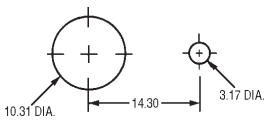
Body dia = 46.0, D = 24.6

411615

Mftrs. List No.	Order Code	Price Each 1+	5+	10+	50+	100+
2606	943-1934●					

20 Turn

- Full metal precision counting dial
- Excellent legibility, black marking on chrome background
- High quality cast and hard chrome housing
- High force click brake



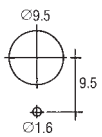
Body Dia=46, D=25, Shaft dia=6.35

Mftrs. List No. H46-6A

207263

Order Code	Price Each 1+	25+	50+	100+
868-899				

10 Turn - 11 Series



Panel cut-out
Shaft dia.=0.25"

- 10 turn analogue counting dial
- Available in satin chrome or black chrome finish
- Suitable for potentiometers with 0.375" dia. 32 TPI UNF-2A bush
- Supplied with allen key

Body dia=25.4, D=22 Operating temperature -20°C to +85°C

Mftrs. List No.	Finish	Order Code
11A11B10	Satin chrome, black markings	114-4732
11A21B10	Black chrome, white markings	114-4811
11A41B10	Satin chrome, white markings	114-4812

207382

Finish	Order Code	Price Each 1+	10+	25+	50+	100+
Chrome/Black	114-4732●					
Black/White	114-4811●					
Chrome/White	114-4812●					

11 Turn - 21P Series

- Precision 11 turn analogue counting dial
- Manufactured from ABS plastic
- Black markings on aluminium finish
- Suitable for potentiometers with 0.375" dia. 32 TPI UNF-2A bush
- Supplied with allen key

Mftrs. List No. 21PA11B10

Body dia = 46.0, D = 24.6

333667

Finish	Order Code	Price Each 1+	10+	25+	50+	100+
Aluminium/Black	114-4810●					

15 Turn - 21 Series

- 15 turn analogue counting dial
- Available in satin chrome or black chrome finish
- Suitable for potentiometer with 0.375" dia. 32 TPI UNF-2A bush
- Supplied with allen key

Operating temperature -20°C to +85°C

Body dia=46.0, D=25.4

Dia.	Mftrs. List No.	Finish	Order Code
46	21A11B10	Satin chrome, black markings	114-4734

207383

Finish	Order Code	Price Each 1+	10+	25+	50+	100+
Chrome/Black46	114-4734●					

Thermistors - NTC

Thermistors are thermally sensitive resistors which display a change in resistance as their temperature changes. Available in two types NTC and PTC.

NTC - Negative temperature coefficient
As the temperature increases the Thermistors resistance decreases. Used mainly for in-rush current limiting. They suppress high inrush current surges which can occur in many electrical items, such as power supplies, motors, transformers, amplifiers.

PTC - Positive temperature coefficient
As the temperature increases the Thermistor resistance increases. Used in many applications including:

- Overload Protection
- Temperature Sensing
- Heating
- Continuous Switching

388687

NTC Thermistors

NEW

NTC chip thermistors offering high thermal sensitivity. Suitable for temperature compensating circuits and other applications requiring a resistance that varies according to ambient temperature.

- 0805 package style
- Suitable for automatic pick and place
- Unmarked components
- Operating temperature: -55 to 125°C

0805 size: L = 2.0, W = 1.25, D = 0.5

Resistance ±5% @ 25°C	Beta Value 25°C to 100°C, ±3%	Mftrs. List No.	Order Code
150Ω	2750	NTC0805J150R	204-2900
220KΩ	2750	NTC0805J220R	204-2901
330KΩ	2750	NTC0805J330R	204-2902
470KΩ	2750	NTC0805J470R	204-2904
680Ω	2750	NTC0805J680R	204-2905
1KΩ	2750	NTC0805J1K0	204-2906
1.5KΩ	3000	NTC0805J1K5	204-2907
2KΩ	3000	NTC0805J2K0	204-2908
2.2KΩ	3000	NTC0805J2K2	204-2909
2.5KΩ	3000	NTC0805J2K5	204-2910
3KΩ	3450	NTC0805J3K0	204-2911
3.3KΩ	3450	NTC0805J3K3	204-2912
4.7KΩ	3450	NTC0805J4K7	204-2913
5KΩ	3450	NTC0805J5K0	204-2914
6.8Ω	3850	NTC0805J6K8	204-2916
10KΩ	4100	NTC0805J10K	204-2917
15KΩ	4100	NTC0805J15K	204-2918
20KΩ	4100	NTC0805J20K	204-2919
22KΩ	4100	NTC0805J22K	204-2920
30KΩ	4100	NTC0805J30K	204-2921
33KΩ	4100	NTC0805J33K	204-2922
47KΩ	4100	NTC0805J47K	204-2923
68KΩ	4100	NTC0805J68K	204-2924
100KΩ	4100	NTC0805J100K	204-2925
150KΩ	4100	NTC0805J150K	204-2926

659461

Order Code	Price Each 10+	100+	500+	1K+	5K+
All Values ●					

NTC, NTH5G Series – Surface Mount

0402 and 0603 Case Sizes

- Ultra compact and miniature NTC chip thermistors
- 0402 and 0603 case sizes
- High accuracy and high stability
- Suitable for most temperature compensation requirements

Operating Temperature: -40°C to + 125°C
Power rating @ 25°C: 100mW

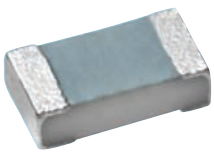
0402 size: L = 1.0, W = 0.5, H = 0.5
0603 size: L = 1.6, W = 0.8, H = 0.8
Supplied on 8mm tape (reel=4k pcs)

Resistance ±5% @ 25°C (Ω)	Beta Value 25°C to 50°C ±3%	Max. Continuous Current @ 25°C (mA)	Mftrs. List No.	Order Code
0402 Case Size				
10K	3380	0.31	NCP15XH103J03RC	952-8067
0603 Case Size				
1K	3650	1	NCP18XQ102J03RB	952-8121
4K7	3950	0.46	NCP18XW472J03RB	952-8113
10K	3380	0.31	NCP18XH103J03RB	952-8105
22K	3950	0.21	NCP18XW223J03RB	952-8130
47K	4050	0.14	NCP18WB473J03RB	952-8075
100K	4250	0.1	NCP18WF104J03RB	952-8083
470K	4500	0.04	NCP18WM474J03RB	952-8091

227222

	Order Code	Price Each 5+	50+	100+	500+	1K+
0402 Case Size	All Values ● RL					
0603 Case Size	All Values ● RL					

Protected NTC Thermistors



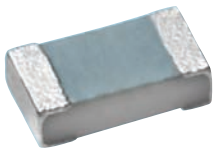
- Suitable for wave or reflow soldering
- NiSn terminations
- Fully glass coated and protected
- Operating Temp: -40°C to +150°C

Resistance @ 25°C	Beta Value 25°C to 100°C, ±1%	Mftrs. List No.	Order Code
0402			
4K7	3595	NTCS0402E3472FMT	176-1137
10K	3490	NTCS0402E3103FLT	176-1138
15K	3965	NTCS0402E3153FHT	176-1139
22K	3590	NTCS0402E3223FMT	176-1140
33K	3670	NTCS0402E3333FMT	176-1141
47K	4075	NTCS0402E3473FXT	176-1142
68K	3910	NTCS0402E3683FHT	176-1143
100K	3950	NTCS0402E3104FHT	176-1144
0603			
2K	3420	NTCS0603E3202FLT	176-1145
2K2	3520	NTCS0603E3222FMT	176-1147
2K7	3600	NTCS0603E3272FMT	176-1148
4K7	3830	NTCS0603E3472FHT	176-1149
10K	3610	NTCS0603E3103FMT	176-1150
15K	3600	NTCS0603E3153FMT	176-1151
22K	3730	NTCS0603E3223FMT	176-1152
33K	3860	NTCS0603E3333FHT	176-1153
47K	3960	NTCS0603E3473FHT	176-1154
68K	3985	NTCS0603E3683FHT	176-1155
100K	4100	NTCS0603E3104FXT	176-1156
0805			
2K2	3680	NTCS0805E4222JMT	118-7086
2K2	3600	NTCS0805E3222JMT	210-3174
4K7	3560	NTCS0805E4472JMT	118-7087
4K7	3500	NTCS0805E3472JMT	210-3176
10K	3620	NTCS0805E4103JMT	118-7088
10K	3570	NTCS0805E3103JMT	210-3177
10K	3940	NTCS0805E3103JHT	210-3178
10K	3430	NTCS0805E3103JLT	210-3179
15K	3528	NTCS0805E4153JMT	118-7091
15K	3700	NTCS0805E3153JMT	210-3180
22K	3800	NTCS0805E3223JHT	210-3181
33K	3960	NTCS0805E4333JHT	118-7092
33K	3920	NTCS0805E3333JHT	210-3182
47K	4090	NTCS0805E4473JXT	118-7093
47K	3960	NTCS0805E3473JHT	210-3183
68K	3740	NTCS0805E4683JMT	118-7094
68K	4100	NTCS0805E3683JXT	210-3184
100K	3650	NTCS0805E4104JMT	118-7095
100K	4100	NTCS0805E3104JXT	210-3185
100K	3590	NTCS0805E3104JMT	210-3186
100K		NTCS0805E3104JZT	210-3188
330K	4015	NTCS0805E4334JXT	118-7096
0805			
330K	3930	NTCS0805E3334JHT	210-3189
470K	4130	NTCS0805E4474JXT	118-7097
470K	4025	NTCS0805E3474JXT	210-3190
470K		NTCS0805E3474JZT	210-3191
680K	4125	NTCS0805E3684JXT	210-3192

547482

Order Code	Price Each 10+	100+	500+	1K+	4K+
SMD All values ●					

Glass Protected NTC Thermistors



FEATURES
- Tolerance 5%
- Suitable for wave or reflow soldering
- NiSn terminations
- Fully glass coated and protected
- Operating Temp: -40°C to +150°C

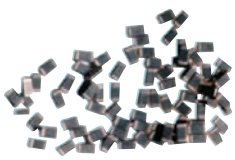
Resistance @ 25°C	Beta Value 25°C to 100°C, ±1%	Power Dissipation mW	Reel Qty.	Mftrs. List No.	Order Code
0603					
2K	3420	125	4000	NTCS0603E3202FLT	176-1145
0805					
2K2	3680 ± 3%	210	4000	NTCS0805E4222JMT	118-7086

660264

Order Code	Price Each 5+	100+	500+	1K+	10K+
SMD All values ●					

NTC SMD Thermistors

ERTJ Series



Features
- Surface Mount Devices in 0402 and 0603 sizes
- Highly reliable multilayer / monolithic structure
- Lead-Free

Applications

Temperature Compensation
- Crystal Oscillators, Semiconductor Devices
- Ink-viscosity (InkJet Printers)
- Display Contrast and backlighting (CCFL)

Temperature Detection
- CPU and Memory Devices
- Battery Cells

Operating Temperature Range -40°C to +125°C

Resistance @ 25°C	Tolerance	Beta Value ±5% (* ±1%)	Mftrs. List No.	Order Code
0402 Case Size, 0.07W				
22ohm	-5% to 5%	2750	ERTJ0EA220J	189-2582
2.2kohm	-5% to 5%	4500	ERTJ0ET222J	189-2583
10kohm	-5% to 5%	3435	ERTJ0EG103JA	189-2584
10kohm	-5% to 5%	4250	ERTJ0ER103J	189-2585
33kohm	-5% to 5%	4250	ERTJ0ER333J	189-2586
47kohm	-5% to 5%	4050	ERTJ0EP473J	189-2588
68kohm	-5% to 5%	4700	ERTJ0EV683J	189-2589
100kohm	-5% to 5%	4050	ERTJ0EP104J	189-2590
100kohm	-5% to 5%	4330	ERTJ0ES104J	189-2591
100kohm	-5% to 5%	4700	ERTJ0EV104J	189-2592
150kohm	-5% to 5%	4700	ERTJ0EV154J	189-2593
220kohm	-5% to 5%	4700	ERTJ0EV224J	189-2594
470kohm	-5% to 5%	4700	ERTJ0EV474J	189-2595
10kohm	-1% to 1%	3435	ERTJ0EG103FA	189-2596
47kohm	-1% to 1%	4050	ERTJ0EP473F	189-2597
100kohm	-1% to 1%	4330	ERTJ0ES104F	189-2598
100kohm	-1% to 1%	4700	ERTJ0EV104F	189-2600
0603 Case Size, 0.12W				
100ohm	-5% to 5%	2800	ERTJ1VA101J	189-2601
4.7kohm	-5% to 5%	4250	ERTJ1VR472J	189-2602
4.7kohm	-5% to 5%	4500	ERTJ1VT472J	189-2603
6.8kohm	-5% to 5%	4250	ERTJ1VR682J	189-2604
10kohm	-5% to 5%	3435	ERTJ1VG103JA	189-2606
10kohm	-5% to 5%	4250	ERTJ1VR103J	189-2607
100kohm	-5% to 5%	4390	ERTJ1VS104JA	189-2608
100kohm	-5% to 5%	4700	ERTJ1VV104J	189-2609
150kohm	-5% to 5%	4700	ERTJ1VV154J	189-2610
10kohm	-1% to 1%	3435	ERTJ1VG103FA	189-2611
100kohm	-1% to 1%	4390	ERTJ1VS104FA	189-2612

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		Order Code	Price Each 1+	50+	100+	500+	1K+
0402 Case Size							
22ohm	ERTJ0EA220J	**189-2582**●					
2.2kohm	ERTJ0ET222J	**189-2583**●					
10kohm	ERTJ0EG103JA	**189-2584**●					
10kohm	ERTJ0ER103J	**189-2585**●					
33kohm	ERTJ0ER333J	**189-2586**●					
47kohm	ERTJ0EP473J	**189-2588**●					
68kohm	ERTJ0EV683J	**189-2589**●					
100kohm	ERTJ0EP104J	**189-2590**●					

NTC SMD Thermistors - continued

ERTJ Series - continued

		Order Code	Price Each 1+	50+	100+	500+	1K+
0402 Case Size							
100kohm	ERTJ0ES104J	**189-2591**					
100kohm	ERTJ0EV104J	**189-2592**					
150kohm	ERTJ0EV154J	**189-2593**					
220kohm	ERTJ0EV224J	**189-2594**					
470kohm	ERTJ0EV474J	**189-2595**					
10kohm	ERTJ0EG103FA	**189-2596**					
47kohm	ERTJ0EP473F	**189-2597**					
100kohm	ERTJ0ES104F	**189-2598**					
100kohm	ERTJ0EV104F	**189-2600**					
0603 Case Size							
100ohm	ERTJ1VA101J	**189-2601**					
4.7kohm	ERTJ1VR472J	**189-2602**					
4.7kohm	ERTJ1VT472J	**189-2603**					
6.8kohm	ERTJ1VR682J	**189-2604**					
10kohm	ERTJ1VG103JA	**189-2606**					
10kohm	ERTJ1VR103J	**189-2607**					
100kohm	ERTJ1VS104JA	**189-2608**					
100kohm	ERTJ1VV104J	**189-2609**					
150kohm	ERTJ1VV154J	**189-2610**					
10kohm	ERTJ1VG103FA	**189-2611**					
100kohm	ERTJ1VS104FA	**189-2612**					

NTC Thermistors - Nickel Barrier

- Multilayer SMD NTC with inner electrodes
- Excellent long-term ageing stability in high-temperature and high-humidity environment
- Superior resistance stability during soldering

0402 size: H = 1.0, W = 0.5, D = 0.6, Terminations W = 0.25 ± 0.15
0603 size: H = 1.6, W = 0.8, D = 0.9, Terminations W = 0.3 ± 0.2
0805 size: H = 2.0, W = 1.25, D = 1.25, Terminations W = 0.5 ± 0.25

Max. Power @ 25°C 180mW (0402 size), 180mW (0603 size), 210mW (0805 size)
Operating temperature -55 to +125°C
Terminations Nickel Barrier

Case Size	Resistance ±5% @ 25°C	Beta Value 25°C to 100°C, ±3%	Mftrs. List No.	Order Code
0402	470Ω	3550	B57211V2471J060	168-8768
0402	10KΩ	4000	B57221V2103J60	129-9910
0402	22KΩ	4575	B57261V2223J060	168-8770
0402	47KΩ	4000	B57221V2473J60	129-9911
0603	220Ω	3550	B57311V2221J60	129-9912
0603	1KΩ	4000	B57321V2102J60	129-9913
0603	4.7KΩ	3650	B57301V2472J060	168-8774
0603	10KΩ	4000	B57321V2103J60	129-9914
0603	10KΩ	4480	B57371V2103J060	168-8775
0603	22KΩ	4480	B57371V2223J060	168-8776
0603	47KΩ	4000	B57321V2473J60	129-9915
0603	47KΩ	4480	B57371V2473J060	168-8778
0603	100KΩ	4480	B57371V2104J060	168-8779
0603	470KΩ	4480	B57371V2474J060	168-8780
0805	470Ω	4000	B57421V2471J62	129-9917
0805	1KΩ	4000	B57421V2102J62	129-9919
0805	2.2KΩ	4000	B57421V2222J062	168-8782
0805	4.7KΩ	4480	B57471V2472J062	168-8783
0805	10KΩ	4480	B57471V2103J062	168-8784
0805	22KΩ	4480	B57471V2223J062	168-8785
0805	47KΩ	4480	B57471V2473J062	168-8786
0805	100KΩ	4480	B57471V2104J062	168-8787
0805	470KΩ	4480	B57471V2474J062	168-8788
1206	1KΩ	3450	B57621C5102J062	168-8791
1206	4.7KΩ	3520	B57621C5472J062	168-8792
1206	10KΩ	3530	B57621C5103J062	168-8793

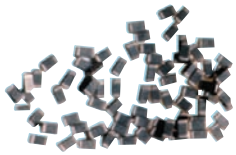
451448

Order Code	Price Each 5+	100+	250+	500+	1K+
All Values 0402					
All Values 0603					
All Values 0805					
	1+	5+	10+		
NTC - Lab Kit					

RL **FREE Re-reeling service.** Only buy what you need and improve assembly efficiency. For more information visit **local website**

NTC SMD Thermistors

NB Series



High quality and low cost devices especially developed for surface mounting applications. They are widely used for temperature compensation but can also achieve temperature control of printed circuits. A nickel barrier metallization provides outstanding qualities of solderability and enables this chip to meet the requirements of the most severe soldering processe Available in 0603, 0805 and 1206 case sizes.

Max. Operating Temperature +150°C

Resistance @ 25°C	Beta Value ±3% (* ±5%)	Mftrs. List No.	Order Code
0603 Case Size, 0.07W			
10kohm ± 5%	3480	NB21J50103JBB	167-2340
10kohm ± 5%	3630	NB21K00103JBB	167-2342
10kohm ± 10%	3480	NB21J50103KBB	167-2341
10kohm ± 10%	3630	NB21K00103KBB	167-2343
12kohm ± 5%	3630	NB21K00123JBB	167-2345
15kohm ± 5%	3630	NB21K00153JBB	167-2346
22kohm ± 5%	3790	NB21L00223JBB	167-2347
22kohm ± 10%	3790	NB21L00223KBB	167-2348
33kohm ± 5%	3950	NB21M00333JBB	167-2349
33kohm ± 10%	3950	NB21M00333KBB	167-2350
47kohm ± 5%	3950	NB21M00473JBB	167-2351
47kohm ± 10%	3950	NB21M00473KBB	167-2352
68kohm ± 5%	4080	NB21N00683JBB	167-2353
100kohm ± 5%	4160	NB21N50104JBB	167-2354
100kohm ± 10%	4160	NB21N50104KBB	167-2355
120kohm ± 5%	4160	NB21N50124JBB	167-2357
150kohm ± 5%	4220	NB21P00154JBB	167-2358
0805 Case Size, 0.12W			
68ohm ± 10%	3470*	NB12KC0680KBB	167-2291
3.3kohm ± 5%	3480	NB12J00332JBB	167-2283
4.7kohm ± 5%	3480	NB12J00472JBB	167-2284
4.7kohm ± 10%	3480	NB12J00472KBB	167-2285
6.8kohm ± 10%	3630	NB12K00682KBB	167-2288
10kohm ± 5%	3630	NB12K00103JBB	167-2286
10kohm ± 10%	3630	NB12K00103KBB	167-2287
12kohm ± 10%	3790	NB12L00123KBB	167-2292
15kohm ± 5%	3790	NB12L00153JBB	167-2293
15kohm ± 10%	3790	NB12L00153KBB	167-2294
22kohm ± 10%	3950	NB12M00223KBB	167-2297
33kohm ± 5%	3950	NB12M00333JBB	167-2298
33kohm ± 10%	3950	NB12M00333KBB	167-2299
47kohm ± 5%	4080	NB12N00473JBB	167-2300
47kohm ± 10%	4080	NB12N00473KBB	167-2301
68kohm ± 10%	3805	NB12L20683KBB	167-2295
68kohm ± 10%	4160	NB12N50683KBB	167-2296
100kohm ± 5%	4220	NB12P00104JBB	167-2302
100kohm ± 5%	4500	NB12SC0104JBB	167-2304
100kohm ± 10%	4220	NB12P00104KBB	167-2303
1206 Case Size, 0.24W			
220ohm ± 10%	3910	NB20MC0221KBA	167-2321
470ohm ± 10%	3910	NB20MC0471KBA	167-2322
4.7kohm ± 5%	3480	NB20J00472JBA	167-2305
4.7kohm ± 10%	3480	NB20J00472KBA	167-2306
6.8kohm ± 10%	3480	NB20J00682KBA	167-2308
8.2kohm ± 5%	3480	NB20J50822JBA	167-2309
10kohm ± 5%	3630	NB20K00103JBA	167-2310
10kohm ± 10%	3630	NB20K00103KBA	167-2311
15kohm ± 10%	3790	NB20L00153KBA	167-2312
18kohm ± 5%	3790	NB20L00183JBA	167-2313
22kohm ± 5%	3790	NB20L00223JBA	167-2314
22kohm ± 10%	3790	NB20L00223KBA	167-2315
33kohm ± 5%	3950	NB20M00333JBA	167-2316
33kohm ± 10%	3950	NB20M00333KBA	167-2317
47kohm ± 10%	3950	NB20M00473KBA	167-2318
68kohm ± 5%	4080	NB20N00683JBA	167-2323
82kohm ± 5%	4080	NB20N00823JBA	167-2324
100kohm ± 5%	4160	NB20N50104JBA	167-2325
100kohm ± 5%	4160	NB20N50104KBA	167-2326
150kohm ± 5%	4220	NB20P00154JBA	167-2327
150kohm ± 10%	4220	NB20P00154KBA	167-2328
220kohm ± 5%	4220	NB20P00224JBA	167-2329
220kohm ± 10%	4220	NB20P00224KBA	167-2330
330kohm ± 5%	4300	NB20Q00334JBA	167-2331
330kohm ± 10%	4300	NB20Q00334KBA	167-2333
470kohm ± 5%	4300	NB20Q00474JBA	167-2334
470kohm ± 10%	4300	NB20Q00474KBA	167-2335
680kohm ± 5%	4400	NB20R00684JBA	167-2338
680kohm ± 10%	4400	NB20R00684KBA	167-2339
1Mohm ± 5%	4400	NB20R00105JBA	167-2336
1Mohm ± 10%	4400	NB20R00105KBA	167-2337

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		Order Code	Price Each 1+	50+	100+	500+	1K+
0603 Case Size							
10kohm	NB21J50103JBB	**167-2340** RL					
10kohm	NB21K00103JBB	**167-2342** RL					
10kohm	NB21J50103KBB	**167-2341** RL					
10kohm	NB21K00103KBB	**167-2343** RL					
12kohm	NB21K00123JBB	**167-2345** RL					
15kohm	NB21K00153JBB	**167-2346** RL					
22kohm	NB21L00223JBB	**167-2347** RL					
22kohm	NB21L00223KBB	**167-2348** RL					
33kohm	NB21M00333JBB	**167-2349** RL					
33kohm	NB21M00333KBB	**167-2350** RL					

		Order Code	Price Each 1+	50+	100+	500+	1K+
0603 Case Size							
47kohm	NB21M00473JBB	**167-2351●** RL					
47kohm	NB21M00473KBB	**167-2352●** RL					
68kohm	NB21N00683JBB	**167-2353●** RL					
100kohm	NB21N50104JBB	**167-2354●** RL					
100kohm	NB21N50104KBB	**167-2355●** RL					
120kohm	NB21N50124JBB	**167-2357●** RL					
150kohm	NB21P00154JBB	**167-2358●** RL					
0805 Case Size							
68ohm	NB12KC0680KBB	**167-2291●** RL					
3.3kohm	NB12J00332JBB	**167-2283●** RL					
4.7kohm	NB12J00472JBB	**167-2284●** RL					
4.7kohm	NB12J00472KBB	**167-2285●** RL					
6.8kohm	NB12K00682KBB	**167-2288●** RL					
10kohm	NB12K00103JBB	**167-2286●** RL					
10kohm	NB12K00103KBB	**167-2287●** RL					
12kohm	NB12L00123KBB	**167-2292●** RL					
15kohm	NB12L00153JBB	**167-2293●** RL					
15kohm	NB12L00153KBB	**167-2294●** RL					
22kohm	NB12M00223KBB	**167-2297●** RL					
33kohm	NB12M00333JBB	**167-2298●** RL					
33kohm	NB12M00333KBB	**167-2299●** RL					
47kohm	NB12N00473KBB	**167-2301●** RL					
68kohm	NB12L20683KBB	**167-2295●** RL					
68kohm	NB12N50683KBB	**167-2296●** RL					
100kohm	NB12P00104JBB	**167-2302●** RL					
100kohm	NB12SC0104JBB	**167-2304●** RL					
100kohm	NB12P00104KBB	**167-2303●** RL					
1206 Case Size							
220ohm	NB20MC0221KBA	**167-2321●** RL					
470ohm	NB20MC0471KBA	**167-2322●** RL					
4.7kohm	NB20J00472JBA	**167-2305●** RL					
4.7kohm	NB20J00472KBA	**167-2306●** RL					
6.8kohm	NB20J00682KBA	**167-2308●** RL					
8.2kohm	NB20J50822JBA	**167-2309●** RL					
10kohm	NB20K00103JBA	**167-2310●** RL					
10kohm	NB20K00103KBA	**167-2311●** RL					
15kohm	NB20L00153KBA	**167-2312●** RL					
18kohm	NB20L00183JBA	**167-2313●** RL					
22kohm	NB20L00223JBA	**167-2314●** RL					
22kohm	NB20L00223KBA	**167-2315●** RL					
33kohm	NB20M00333JBA	**167-2316●** RL					
33kohm	NB20M00333KBA	**167-2317●** RL					
47kohm	NB20M00473KBA	**167-2318●** RL					
68kohm	NB20N00683JBA	**167-2323●** RL					
82kohm	NB20N00823JBA	**167-2324●** RL					
100kohm	NB20N50104JBA	**167-2325●** RL					
100kohm	NB20N50104KBA	**167-2326●** RL					
150kohm	NB20P00154JBA	**167-2327●** RL					
150kohm	NB20P00154KBA	**167-2328●** RL					
220kohm	NB20P00224JBA	**167-2329●** RL					
220kohm	NB20P00224KBA	**167-2330●** RL					
330kohm	NB20Q00334JBA	**167-2331●** RL					
330kohm	NB20Q00334KBA	**167-2333●** RL					
470kohm	NB20Q00474KBA	**167-2335●** RL					
680kohm	NB20R00684JBA	**167-2338●** RL					
680kohm	NB20R00684KBA	**167-2339●** RL					
1Mohm	NB20R00105JBA	**167-2336●** RL					
1Mohm	NB20R00105KBA	**167-2337●** RL					

NTC

Surface mount NTC thermistors suitable for temperature compensation in hybrid circuits especially in data plus telecom systems and in automotive electronics. Supplied on tape and reel in 0603, 0805 and 1206 case sizes, suitable for wave and reflow soldering.

0603 size: H = 1.6, W = 0.8, D = 0.9, Terminations W = 0.3 ± 0.2
0805 size: H = 2.0, W = 1.25, D = 1.25, Terminations W = 0.5 ± 0.25
1206 size: H = 3.2, W = 1.6, D = 1.3, Terminations W = 0.5 ± 0.25

Max. Power @ 25°C 210mW (0603 size), 210mW (0805 size), 300mW (1206 size)
Terminations Silver palladium

Case Size	Resistance ±5% @ 25°C	Beta Value 25°C to 100°C, ±3%	Mftrs. List No.	Order Code
0603	10KΩ	3530	B57619C103J60	387-6585
0805	220Ω	3100	B57620C221J62	679-460
0805	470Ω	3300	B57620C471J62	679-471
0805	1KΩ	3450	B57620C102J62	679-483
0805	10KΩ	3730	B57620C103J62	679-495
0805	100KΩ	4200	B57620C104J62	679-501
1206	1KΩ	3450	B57621C102J62	679-525
1206	4.7KΩ	3520	B57621C472J62	679-537
1206	10KΩ	3530	B57621C103J62	679-549
1206	100KΩ	3950	B57621C104J62	679-550

207338

Order Code	Price Each 1+	100+	250+	500+	1K+
All values 0603					
All values 0805					
All values 1206 ●					

NTC

Dia. = 5.5 max, Lead L = 36, Lead spacing = 5.0

A range of disc NTC thermistors for temperature compensation, measurement and control.

Max Power @ 25°C 450mW

Resistance ±5% @ 25°C	Beta Value 25°C to 100°C, ±3%	Mfts. List No.	Order Code
100Ω	3200	B57164K0101J	975-3400
1KΩ	3730	B57164K102J	975-3419
10KΩ	4300	B57164K103J	975-3435
470KΩ	5000	B57164K474J	975-3451

207343

Resistance @ 25°C	Order Code	Price Each 1+	50+	100+	250+	500+
100Ω	**975-3400●**					
1KΩ	**975-3419●**					
10KΩ	**975-3435●**					
470KΩ	**975-3451●**					

NTC Thermistors For Inrush Current Limiting

P11 and P13 Series

NEW

Applications
- For peripheral communication equipment, e.g. in swich-mode power supplies

Features
- Coating material flame retardant to UL 94 V-0
- Lead spacing 7.5 mm
- High stabiliy of electrical characteristic

	P11	P13
Thermistor Tolerance	± 20%	± 20%
Thermistor Type	NTC	NTC
Max Power	3 W	3.8 W

657713

Resistance Ohms	Mftrs. List No.	Order Code	Price Each 1+	50+	100+	500+	1K+
4	P11/4	**210-1616●**					
5	P11/5	**210-1617●**					
10	P11/10	**210-1618●**					
12	P11/12	**210-1619●**					
16	P11/16	**210-1620●**					
20	P11/20	**210-1621●**					
25	P11/25	**210-1623●**					
3	P13/3	**210-1624●**					
4	P13/4	**210-1625●**					
5	P13/5	**210-1626●**					

NTC - Inrush Current Limiters

A range of disc NTC thermistors for limiting of in-rush currents in communications and industrial applications.

8.5 mm Series	Dia. = 8.5 mm max.,	Lead L = 36 mm,	Lead spacing = 5 mm
9.5 mm Series	Dia. = 9.5 mm max.,	Lead L = 25 mm,	Lead spacing = 5 mm
11.5 mm Series	Dia. = 11.5 mm max.,	Lead L = 25 mm,	Lead spacing = 5 mm
15 mm Series	Dia. = 15 mm max.,	Lead L = 25 mm,	Lead spacing = 7.5 mm
21 mm Series	Dia. = 21 mm max.,	Lead L = 32 mm,	Lead spacing = 7.5 mm
26 mm Series	Dia. = 26 mm max.,	Lead L = 32 mm,	Lead spacing = 7.5 mm

Resistance ±20% @ 25°C	Max. Cont. Current @ 25°C	Beta Value 25°C to 100°C ±3%	Mftrs. List No.	Order Code
8.5 mm Disc				
4.7 ohm	3 A	2800	B57153S479M	168-8794
10 ohm	2 A	2800	B57153S100M	168-8795
15 ohm	1.8 A	2900	B57153S150M	168-8796
33 ohm	1.3 A	3000	B57153S330M	168-8797
9.5 mm Disc				
5 ohm	4.2 A	2800	B57235S509M	975-1866
10 ohm	3 A	2900	B57235S100M	975-1874
11.5 mm Disc				
2.5 ohm	5.5 A	2700	B57236S259M	168-8798
5 ohm	4.5 A	2800	B57236S509M	975-1882
20 ohm	3.3 A	3065	B57236S200M	975-1890

NTC - Inrush Current Limiters - continued

Resistance ±20% @ 25°C	Max. Cont. Current @ 25°C	Beta Value 25°C to 100°C ±3%	Mftrs. List No.	Order Code
8.5 mm Disc				
25 ohm	3 A	3065	B57236S250M	975-1904
50 ohm	1.9 A	3165	B57236S500M	168-8799
80 ohm	1.6 A	3300	B57236S800M	168-8800
15 mm Disc				
1 ohm	9 A	2700	B57237S0109M	168-8801
2.2 ohm	7 A	2800	B57237S229M	975-4148
2.5 ohm	6.5 A	2800	B57237S259M	975-4156
4.7 ohm	5.1 A	2900	B57237S479M	975-4164
5 ohm	5 A	2900	B57237S509M	975-4172
7 ohm	4.2 A	3060	B57237S709M	975-4180
10 ohm	3.7 A	3060	B57237S100M	975-4199
15 ohm	3 A	3000	B57237S150M	975-4202
22 ohm	2.8 A	3300	B57237S220M	975-4210
33 ohm	2.5 A	3300	B57237S330M	975-4229
16 mm Disc				
5 ohm	6.4 A	2965	B57238S509M	170-4471
10 ohm	5 A	3065	B57238S100M	170-4469
15 ohm	4.4 A	3165	B57238S150M	170-4470
21 mm Disc				
2 ohm	12 A	2900	B57364S209M	168-8802
2.5 ohm	11 A	2900	B57364S259M	170-4472
4 ohm	9.5 A	3060	B57364S409M	170-4474
26 mm Disc				
1 ohm	20 A	2800	B57464S109M	173-4776

627902

	Order Code	Price Each 1+	50+	100+	250+	500+
8.5 mm Disc	**All Order Codes●**					
9.5 mm Disc	**All Order Codes●**					
11.5 mm Disc	**All Order Codes●**					
15 mm Disc	**All Order Codes●**					
16 mm Disc	**All Order Codes●**					
21 mm Disc	**All Order Codes●**					
26 mm Disc	**All Order Codes●**					

NTC - NTCLG100 Series

SOD80 package: L=3.7 max, ∅=1.7 max.
SOD27 package: L=4.25 max, ∅=1.85 max,
Leads L=25.4, ∅=0.56

- Small diameter, leaded and surface mount devices
- Quick response to temperature change
- Wide temperature range from -40°C to +300°C
- Resistant to corrosive atmosphere and harsh environments
- High stability over a long life

NTC thermistors in glass envelope suitable for high temperature measurement control, for industrial process control and domestic and automotive applications.

Package	Resistance @ 25°C	Beta Value to 25°C to 85°C	Mfts. List No.	Order Code
SOD-80(SMD)	100KΩ	3977K±1.3%	NTCSMELFE3104JT	116-4821
SOD-27(leaded)	10KΩ	3977K±1.3%	NTCLG100E2103JB	116-4822
SOD-27(leaded)	100KΩ	3977K±1.3%	NTCLG100E2104JB	116-4823

207346

Resistance @ 25°C	Order Code	Price Each 1+	10+	100+	300+	1K+
100KΩ	SMD **116-4821●**					
10KΩ	**116-4822●**					
100KΩ	**116-4823●**					

NTC Accurate Thermistors

High precision resistance and an outstanding ability to reproduce the sensibility index B, make these ranges of products the types of thermistors ideal for temperature measurement applications. These small size and rapid response time thermistors are able to meet the most accurate requirements.

Max. Operating Temperature +150°C

Resistance @ 25°C	Beta Value	Mftrs. List No.	Order Code
NI24 - 2.4mm			
3kohm ± 1%	3960	NI24MA0302F--	167-2391
10kohm ± 1%	4100	NI24NA0103F--	167-2394
100kohm ± 1%	4380	NI24RA0104F--	167-2395
NJ28 - 2.8mm			
2kohm ± 3%	3625	NJ28KA0202H--	167-2396
10kohm ± 3%	3960	NJ28MA0103H--	167-2397
3kohm ± 1%	3960	NJ28MA0302F--	167-2398
5kohm ± 2%	3960	NJ28MA0502G--	167-2399
10kohm ± 1%	4100	NJ28NA0103F--	167-2401
10kohm ± 3%	4100	NJ28NA0103H--	167-2402
50kohm ± 1%	4250	NJ28QA0503F--	167-2404
100kohm ± 1%	4380	NJ28RA0104F--	167-2405
100kohm ± 2%	4380	NJ28RA0104G--	167-2406
100kohm ± 3%	4380	NJ28RA0104H--	167-2407

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		Order Code	Price Each 1+	50+	100+	500+	1K+
NI24 - 2.4mm							
3kohm	NI24MA0302F--	**167-2391●**					
10kohm	NI24NA0103F--	**167-2394●**					
100kohm	NI24RA0104F--	**167-2395●**					
NJ28 - 2.8mm							
2kohm	NJ28KA0202H--	**167-2396●**					
10kohm	NJ28MA0103H--	**167-2397●**					
3kohm	NJ28MA0302F--	**167-2398●**					
5kohm	NJ28MA0502G--	**167-2399●**					
10kohm	NJ28NA0103F--	**167-2401●**					
10kohm	NJ28NA0103H--	**167-2402●**					
50kohm	NJ28QA0503F--	**167-2404●**					
100kohm	NJ28RA0104F--	**167-2405●**					
100kohm	NJ28RA0104G--	**167-2406●**					
100kohm	NJ28RA0104H--	**167-2407●**					

NTC Bead Thermistors

ND Series

- General purpose NTC bead thermistors
- Epoxy-phenolic resin coating
- Suitable for many applications including alarm and temperature measurement

Max. Operating Temperature +155°C

Resistance @ 25°C	Beta Value ±3% (* ±5%)	Mftrs. List No.	Order Code
ND03 - 3.5mm Disc			
330ohm ± 20%	3250*	ND03I00331M--	167-2359
1kohm ± 5%	3480	ND03J00102J--	167-2360
1kohm ± 10%	3480	ND03J00102K--	167-2361
680ohm ± 10%	3480	ND03J00681K--	167-2362
1.5kohm ± 10%	3630	ND03K00152K--	167-2363
4.7kohm ± 5%	3950	ND03M00472J--	167-2364
10kohm ± 5%	4080	ND03N00103J--	167-2365
10kohm ± 10%	4080	ND03N00103K--	167-2366
15kohm ± 5%	4080	ND03N00153J--	167-2367
22kohm ± 5%	4220	ND03P00223J--	167-2369
22kohm ± 10%	4220	ND03P00223K--	167-2371
33kohm ± 5%	4220	ND03P00333J--	167-2372
33kohm ± 10%	4220	ND03P00333K--	167-2373
100kohm ± 5%	4400	ND03R00104J--	167-2374
220kohm ± 5%	4520	ND03S00224J--	167-2375
470kohm ± 5%	4630	ND03T00474J--	167-2376
470kohm ± 10%	4630	ND03T00474K--	167-2377
1Mohm ± 5%	4840	ND03U00105J--	167-2378
1Mohm ± 10%	4840	ND03U00105K--	167-2379
ND06 - 6.3mm Disc			
150ohm ± 10%	3480	ND06J00151K--	167-2380
1kohm ± 10%	3790	ND06L00102K--	167-2382
10kohm ± 5%	4220	ND06P00103J--	167-2383
10kohm ± 10%	4220	ND06P00103K--	167-2384
4.7kohm ± 10%	4220	ND06P00472K--	167-2385
22kohm ± 5%	4300	ND06Q00223J--	167-2386
33kohm ± 10%	4400	ND06R00333K--	167-2387
47kohm ± 5%	4520	ND06S00473J--	167-2388
150kohm ± 10%	4840	ND06U00154K--	167-2389
330kohm ± 10%	4840	ND06U00334K--	167-2390

527866

		Order Code	Price Each 1+	50+	100+	500+	1K+
ND03 - 3.5mm Disc							
330ohm	ND03I00331M--	**167-2359●**					
1kohm	ND03J00102J--	**167-2360●**					
1kohm	ND03J00102K--	**167-2361●**					
680ohm	ND03J00681K--	**167-2362●**					
1.5kohm	ND03K00152K--	**167-2363●**					
4.7kohm	ND03M00472J--	**167-2364●**					
10kohm	ND03N00103J--	**167-2365●**					
10kohm	ND03N00103K--	**167-2366●**					
15kohm	ND03N00153J--	**167-2367●**					
22kohm	ND03P00223J--	**167-2369●**					

RoHS ● Compliant ▲ Non-compliant

		Order Code	Price Each 1+	50+	100+	500+	1K+
ND03 - 3.5mm Disc							
22kohm	ND03P00223K--	**167-2371●**					
33kohm	ND03P00333J--	**167-2372●**					
33kohm	ND03P00333K--	**167-2373●**					
100kohm	ND03R00104J--	**167-2374●**					
220kohm	ND03S00224J--	**167-2375●**					
470kohm	ND03T00474J--	**167-2376●**					
470kohm	ND03T00474K--	**167-2377●**					
1Mohm	ND03U00105J--	**167-2378●**					
1Mohm	ND03U00105K--	**167-2379●**					
ND06 - 6.3mm Disc							
150ohm	ND06J00151K--	**167-2380●**					
1kohm	ND06L00102K--	**167-2382●**					
10kohm	ND06P00103J--	**167-2383●**					
10kohm	ND06P00103K--	**167-2384●**					
4.7kohm	ND06P00472K--	**167-2385●**					
22kohm	ND06Q00223J--	**167-2386●**					
33kohm	ND06R00333K--	**167-2387●**					
47kohm	ND06S00473J--	**167-2388●**					
150kohm	ND06U00154K--	**167-2389●**					
330kohm	ND06U00334K--	**167-2390●**					

NTC

B57560 Series

Lead - length 67mm, Dia. 0.3mm
Bead - length 4.1mm,Dia. 2.3mm

- Sealed glass body
- Durmet wire connections
- Temperature measurement devices designed for high temperature and short response times

Climatic Category (IEC 60068-1)	55/300/56
Temperature range	-55°C to +300°C
Rated temperature	25°C
Dissipation factor (air)	approx. 1.3
Thermal time constant	approx. 15
Heat capacity	approx. 20

234234

Resistance Ω ±1%	Mftrs. List No.	Order Code	Price Each 1+	50+	100+	250+	500+
5K	B57560G502F	**387-8703●**					
10K	B57560G103F	**387-8685●**					
100K	B57560G104F	**387-8697●**					

NTC - NTCLE Series

5% tol. Series
L=4 (typ.), W=3.5 (typ.), D=3 (max)
Lead pitch=2.54, Lead=17 (min)

2% and 1% tol. Series
L=4 (typ.), W=3.4 (max.), D=2.7 (max)
Lead pitch=2.54, Lead L=38 (min)

NTC thermistors for temperature sensing and control, featuring accuracy over a wide temperature range and good stability.

Tolerance on R25 value	±5%, ±2%, ±1%
Rated dissipation	500mW (5% tol. Series), 100mW (2% and 1% tol. Series)
Operating temp. range	-40°C to +125°C (at zero power, continuously) 0°C to 55°C (at max. power)

Colour code on 2322-640-5xxx Series: 2.7kΩ=Red, 4.7kΩ=Green, 10kΩ=Blue, 100kΩ=Brown

Resistance @ 25°C	Beta Value 25°C to 85°C	Mfts. List No.	Order Code
2.2KΩ ±5%	3977K ±0.75%	NTCLE100E3222JB0	118-7025
3.3KΩ ±5%	3977K ±0.75%	NTCLE100E3332JB0	118-7026
4.7KΩ ±5%	3977K ±0.75%	NTCLE100E3472JB0	118-7027
10KΩ ±5%	3977K ±0.75%	NTCLE100E3103JB0	118-7031
33KΩ ±5%	4090K ±1.5%	NTCLE100E3333JB0	118-7032
100KΩ ±5%	4190K ±2%	NTCLE100E3104JB0	118-7033
330KΩ ±5%	4570K ±3%	NTCLE100E3334JB0	118-7034
4.7KΩ ±2%	3977K ±0.75%	NTCLE203E3472GB0	118-7035
10KΩ ±2%	3977K ±0.75%	NTCLE203E3103GB0	118-7036
100KΩ ±2%	4190K ±2%	NTCLE203E3104GB0	118-7037
2.7KΩ ±1%	3977K ±0.75%	NTCLE203E3272FB0	118-7038
2.06	K ±1%3511	NTCLE305E4202SB	184-5541
5	K ±0.5%3984	NTCLE305E4502SB	184-5542
10	K ±0.5%3984	NTCLE305E4103SB	184-5543
10KΩ ±1%	3977K ±0.75%	NTCLE203E3103FB0	118-7039

207347

Tol.		Order Code	Price Each 1+	10+	100+	300+	1K+
±5%	2.2	**118-7025●**					
	3.3	**118-7026●**					
	4.7	**118-7027●**					
	10	**118-7031●**					
	33	**118-7032●**					
	100	**118-7033●**					
	330	**118-7034●**					
±2%	4.7	**118-7035●**					
	10	**118-7036●**					
	100	**118-7037●**					
	2.06	NEW **184-5541●**					
	2.7	**118-7038●**					
	5	NEW **184-5542●**					
	10	**118-7039●**					
	10	NEW **184-5543●**					

NTCLE201 Series

L = 8mm, Dia = 2.4mm, Lead Length = 38mm,
Lead Dia = 0.3mm

Consists of a mini-chip soldered between two insulated (LE300) or non-insulated (LE201) nickel leads and coated with a solid ochre epoxy lacquer.

- Small diameter
- High stability over a long life
- Accuracy of 0.5°C between 0°C and 50°C
- Long and flexible leads for special mounting or assembly requirements

Operating Temperature	Dissipation Max.	Dielectric Voltage	Beta Value
-40°C to +125°C	100 mW	500 V	25°C to 85°C 3977K

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Resistance @ 25°C	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
3 kohm	NTCLE300E3302SB	**188-8077●**					
5 kohm	NTCLE300E3502SB	**188-8078●**					
10 kohm	NTCLE300E3103SB	**188-8081●**					

NTC

B57861 Series
Dia.=2.41 max., L=5 max., Lead L=45
Lead Dia. = 0.25 (insulated)

Miniature NTC thermistors for high precision temperature measurement in measuring and control engineering.

Max Power @ 25°C 60mW

Resistance @ 25°C	25°C to 100°C	PTFE Insulated Mfts. List No.	Order Code
10KΩ ±1%	3988 ±0.3%	B57861S0103F45	129-9926
3KΩ ±1%	3988 ±1%	B57861S302F40	679-422
5KΩ ±1%	3988 ±1%	B57861S502F40	679-434
10KΩ ±1%	3988 ±1%	B57861S103F40	679-446
30KΩ ±1%	3964 ±1%	B57861S303F40	679-458
100KΩ ±1%	4540 ±1%	B57861S104F40	387-8727

207339

Resistance @ 25°C	Order Code	Price Each 1+	10+	100+	250+	500+
10KΩ	**129-9926●**					
3KΩ	**679-422●**					
5KΩ	**679-434●**					
10KΩ	**679-446●**					
30KΩ	**679-458●**					
100KΩ	**387-8727●**					

B57863 Series - NTC

Dia.=2.41 max., L=6.5 max., Lead L=43.5
Lead Dia. = 0.25

- Miniature NTC sensors with bendable wires
- Uni curve sensor
- Fast response
- High temperature accuracy
- Excellent long-term stability

Max Power @ 25°C 60mW Operating temperature -25 to +155°C

Resistance @ 25°C	Beta value 25°C to 100°C	PTFE Insulated Mfts. List No.	Order Code
3KΩ ±1%	3988	B57863S302F40	129-9928
5KΩ ±1%	3988	B57863S502F40	129-9929
10KΩ ±1%	3988	B57863S103F40	129-9930

451465

Order Code	Price Each 1+	10+	100+	250+	500+
All Values ●					

TROUBLESHOOTING TIPS
Chat online to one of our technical engineers at **farnell.com**

Thermistors - NTC - continued

NTC, R-T Curve Matched

Insulated: Dia=2.4 max, Leads L=200
Non-insulated: Dia=2.4 max, Leads L=76

- Small size
- High precision
- Offers advantages in circuit standardisation and replacement without calibration
- Interchangeable
- Exceptional ageing stability
- Available with either insulated or non-insulated leads

'BetaCURVE' matched NTC thermistors have a tight tolerance on their R-T (resistance-temperature) curve over a wide temperature range. Manufacturing and quality assurance techniques maintain tight control of materials and device thermal electrical properties.

Temperature range -55°C to +150°C 1.0mW/°C
Tolerance over temp. range 0°C to +70°C ±0.2°C Time Constant (max. in still air) 10s

2.252kohm Resistance @ 25°C3kohm	0 to 50°C Beta Value	0 to 50°C Beta Max. Deviation
1kΩ5kohm	3263	0.38%
2.252kΩ, 3kΩ, 5kΩ, 10kΩ10kohm	3892	0.32%
30kΩ, 100kΩ30kohm	4143	0.30%
1MΩ100kohm	4582	0.63%

207354

Resistance @ 25°C	Mftrs. List No.	Order Code	Price Each 1+	25+	100+	250+
Non-insulated 76mm Leads						
1kohm	1K2A1B	**970-7239●**				
2.252kohm	2.2K3A1B	**970-7174●**				
3kohm	3K3A1B	**970-7182●**				
5kohm	5K3A1B	**970-7190●**				
10kohm	10K3A1B	**970-7204●**				
30kohm	30K6A1B	**970-7212●**				
100kohm	100K6A1B	**970-7220●**				
Insulated 200mm Leads						
2.252kohm	2.2K3A359I	**970-7247●**				
3kohm	3K3A340I	**970-7255●**				
5kohm	5K3A373I	**970-7263●**				
10kohm	10K3A542I	**970-7271●**				
30kohm	30K6A309I	**970-7280●**				
100kohm	100K6A372I	**970-7298●**				

NTC

L = 19, W (O/D) = 8.5, H = 6.5, Hole dia. = 3.7, Lead L = 32

NTC thermistors for high accuracy surface temperature measurement, for example, on housings and pipes. Good thermal coupling through metal tag. PTFE insulated leads.

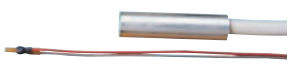
207341

Mftrs. List No.	Order Code	Price Each 1+	50+	100+	250+	500+
B57703M502G40	**120-0455●**					
B57703M103G	**120-0456●**					
B57703M303G40	**111-2823●**					

NTC Probe Assemblies

975-3460
L (overall) = 44,
Dia. (body) = 10,
Tabs = 2.8 x 0.8

120-0457
L = 14, Dia. = 5,
Leads L = 380



Thermistor probe assemblies for temperature measurement.

975-3460: Thermistor in compact stainless steel case, suitable for use in corrosive environments, easy mounting through AMP connectors, for washing machines, water boilers etc.

120-0457: Coated thermistor disc with shrunk sleeve insulation and PTFE insulated leads, suitable for transformers and electric motors.

Resistance	Beta Value	Max. Power @ 25°C	Order Code
1704Ω @ 80°C, 11982Ω @ 25°C, ±2%	3760 ± 1.5%	500mW	975-3460
1800Ω @ 100°C, 32762Ω @ 25°C, ±10%	4300 ± 1.5%	200mW	120-0457

207344

Mftrs. List No.	Order Code	Price Each 1+	10+	50+	100+	250+
B57276K123A30	**975-3460●**					
B57227K333A1	**120-0457●**					

NTC - NTCASCW Series

Body: L=81, Dia=hex 8A/F
Thread: M4, L=5.5,
Leads: L=34, Dia=0.6

- Good insulation and/or good thermal contact with chassis
- Easy mounting
- Wide range of temperature sensing and control applications
- Rugged construction

Disc NTC thermistor is mounted in the head of the M4 aluminium screw.

Resistance @ 25°C	Beta Value 25°C to 85°C	Mfts. List No.	Order Code
1KΩ	3528K ±0.5%	NTCASCWE3102J	118-7098
4.7KΩ	3977K ±0.75%	NTCASCWE3472J	118-7099
10KΩ	3977K ±0.75%	NTCASCWE3103J	118-7100
47KΩ	4090K ±1.5%	NTCASCWE3473J	118-7101

207348

Resistance @ 25°C	Order Code	Price Each 1+	10+	100+	300+	1K+
1KΩ	**118-7098●**					
4.7KΩ	**118-7099●**					
10KΩ	**118-7100●**					
47KΩ	**118-7101●**					

Thermistors - PTC

Posistor® - PRF Series Overheat Sensing

Resistance 470ohm
Tolerance ± 50%
Voltage rating 32V

- Chip PTC overheat sensing in power electronics applications
- Excellent thermal response due to small size

Upper Limit Temperature (Beta Value) °C	Lower Limit Temperature (Beta Value) °C	Operating Temperature (max) °C	Mfts. List No.	Order Code
PRF Series – 0603 Case Size				
145	25	+160	PRF18AS471QB1RB	151-5848
115	25	+130	PRF18BB471RB1RB	151-5851
95	25	+110	PRF18BD471QB1RB	151-5854
95	25	+110	PRF18BD471RB1RB	151-5855
85	25	+100	PRF18BE471RB1RB	151-5859
75	25	+90	PRF18BF471QB1RB	151-5861
65	25	+80	PRF18BG471QB1RB	151-5862
PRF Series – 0805 Case Size				
95	25	+110	PRF21BD471QB1RA	151-5866
85	25	+100	PRF21BE471QB1RA	151-5867

496939

Temperature, upper limit beta value	Order Code	Price Each 1+	50+	100+	250+	500+
0603						
145	**151-5848●**					
115	**151-5851●**					
105	**151-5852●**					
95	**151-5854●**					
95	**151-5855●**					
85	**151-5859●**					
75	**151-5861●**					
65	**151-5862●**					
0805						
95	**151-5866●**					
85	**151-5867●**					

Posistor® - PRF Series Overheat Sensing

- Chip PTC overheat sensing in power electronics applications
- Excellent thermal response due to small size

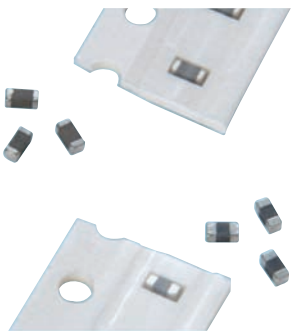
Lower Limit Temperature (Beta Value) °C	Upper Limit Temperature (Beta Value) °C	Operating Temperature (max) °C	Mfts. List No.	Order Code
PRF Series – 0603 Case Size				
65	80	-20°C to +90°C	PRF18BG471QB5RB	196-1271
75	90	-20°C to +100°C	PRF18BF471QB5RB	196-1272
85	100	-20°C to +110°C	PRF18BE471QB5RB	196-1273
95	110	-20°C to +120°C	PRF18BD471QB5RB	196-1274
95	-	-20°C to +110°C	PRF18BD471RB5RB	196-1276
105	120	-20°C to +130°C	PRF18BC471QB5RB	196-1277
115	130	-20°C to +130°C	PRF18BB471RB5RB	196-1278
145	-	-20°C to +160°C	PRF18AS471QB5RB	196-1279
PRF Series – 0805 Case Size				
85	100	-20°C to +100°C	PRF21BE471QB5RA	196-1280
95	110	-20°C to +110°C	PRF21BD471QB5RA	196-1281
105	120	-20°C to +120°C	PRF21BC471QB5RA	196-1282

RoHS ● Compliant ▲ Non-compliant

659662

Temperature, upper limit beta value	Order Code	Price Each 1+	50+	100+	250+	500+
0603						
80	**196-1271●**					
90	**196-1272●**					
100	**196-1273●**					
110	**196-1274●**					
-	**196-1276●**					
120	**196-1277●**					
130	**196-1278●**					
-	**196-1279●**					
0805						
85	**196-1280●**					
95	**196-1281●**					
105	**196-1282●**					

PRG Series



- Overcurrent Protection device with resettable function
- Chip type PTC thermistor for overcurrent which is suitable for countermeasure for short circuit testing as well as current limiting resistors

Features

- Rapid operation protects the circuit in an overcurrent condition such as a short circuit
- Stable resistance after operation due to ceramic PTC
- Possible to use these products as current limiting resistors with overcurrent protection functions

Operating temperature -10°C to +60°C

Resistance Ω	Voltage V	Trip Current mA	Max. Current mA	Length	Width	Depth	Mfts. List No.	Order Code
15	20	140	1600	2	1.25	1.25	PRG21BB150MB1RK	**111-5058**
33	24	85	900	1.6	0.8	0.8	PRG18BB330MB1RB	**111-5055**
47	24	75	630	1.6	0.8	0.8	PRG18BB470MB1RB	**111-5056**
100	24	55	300	1.6	0.8	0.8	PRG18BB101MB1RB	**111-5052**

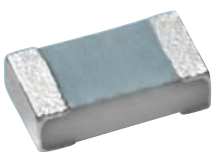
423339

Order Code	Price Each 5+	100+	250+	500+	1K+
All Values ● RL					

RL **FREE Re-reeling service.** Only buy what you need and improve assembly efficiency. For more information visit **local website**

SMD Temperature Sensors

PTS Series



PTS SMD Flat Chip Temperature sensors are the perfect choice for temperature control of electronics operating under varying environmental conditions. The highly controlled platinum thin film manufacturing process guarantees an outstanding stability of temperature characteristics which ensures reliable operation even under harsh conditions. Typical applications include automotive, aviation and industrial electronics.

- Advanced thin film technology
- Short reaction times down to t0.9 ≤2 s (in air)
- Outstanding stability of temperature characteristic

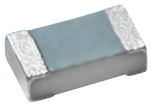
Max. Operating Temperature +155°C
Max. Operating Temperature ± 0.04%
Insulation Resistance
Temperature Coeeficient +3850ppm/K

Resistance	Response Time	Case Size	Mftrs. Mftrs. List No.	Order Code
100ohm	1s	0603	PTS060301B100RP100	156-0916
100ohm	1.5s	0805	PTS080501B100RP100	156-0917
100ohm	2s	1206	PTS120601B100RP100	156-0919
1kohm	2s	1206	PTS120601B1K00P100	156-0921

527100

Order Code	Price Each 1+	50+	100+	250+	500+
156-0916● RL					
156-0917● RL					
156-0919● RL					
156-0921● RL					

Linear PTC Thermistors



- Solderable wraparound terminations
- Alumina substrate base with PTC thin film element
- 0603 and 0805 sizes available
- Available in tape and reel packaging
- Standard tolerance: ± 1 %
- Operation range -55°C to +125°C
- Reel Qty: 1000

Resistance Ω	Operating Voltage V d.c.	Power Dissipation mW	Mftrs.List No.	Order Code
0603				
100R	30	75	TFPT0603L1000FV	176-1099
120R	30	75	TFPT0603L1200FV	176-1100
150R	30	75	TFPT0603L1500FV	176-1101
180R	30	75	TFPT0603L1800FV	176-1102
220R	30	75	TFPT0603L2200FV	176-1103
270R	30	75	TFPT0603L2700FV	176-1104
330R	30	75	TFPT0603L3300FV	176-1105
390R	30	75	TFPT0603L3900FV	176-1106
470R	30	75	TFPT0603L4700FV	176-1107
560R	30	75	TFPT0603L5600FV	176-1108
680R	30	75	TFPT0603L6800FV	176-1111
820R	30	75	TFPT0603L8200FV	176-1112
1K	30	75	TFPT0603L1001FV	176-1113
0805				
100R	40	100	TFPT0805L1000FV	176-1114
120R	40	100	TFPT0805L1200FV	176-1115
150R	40	100	TFPT0805L1500FV	176-1116
180R	40	100	TFPT0805L1800FV	176-1117
220R	40	100	TFPT0805L2200FV	176-1118
270R	40	100	TFPT0805L2700FV	176-1119
330R	40	100	TFPT0805L3300FV	176-1120
390R	40	100	TFPT0805L3900FV	176-1121
470R	40	100	TFPT0805L4700FV	176-1123
560R	40	100	TFPT0805L5600FV	176-1124
680R	40	100	TFPT0805L6800FV	176-1125
820R	40	100	TFPT0805L8200FV	176-1126
1K	40	100	TFPT0805L1001FV	176-1127
1K2	40	100	TFPT0805L1201FV	176-1128
1K5	40	100	TFPT0805L1501FV	176-1129
1K8	40	100	TFPT0805L1801FV	176-1130
2K2	40	100	TFPT0805L2201FV	176-1131
2K7	40	100	TFPT0805L2701FV	176-1132
3K3	40	100	TFPT0805L3301FV	176-1133
3K9	40	100	TFPT0805L3901FV	176-1135
4K7	40	100	TFPT0805L4701FV	176-1136

547478

Order Code	Price Each 1+	50+	250+	500+	1K+
SMD **0603 All Values ●**					
SMD **0805 All Values ●**					

PTC Chip – LT73 Series

- Highly linear PTC response to temperature change
- Each part is individually value marked in black over orange
- Applications include temperature compensation and thermal protection
- TCRs at 3000 ppm and 3900 ppm meet internationally recognised standards

H=2, W=1.25, D=0.5
Terminations W=0.3

Linear PTC chip for thermal sensing. The tiny 0805 size thin film temperature sensor is manufactured by depositing a special alloy, ensuring long life stability. Supplied on 8mm tape.

Resistance tolerance	±5%	Temperature coefficient	3000 or 3900ppm/°C
Rated Power @ 70°C	100 watt to zero @ 120°C	TCR measurement range	+25°C to +75°C
Working voltage	50V max.	TCR tolerance	±10%
Overload voltage	100V max.	Insulation resistance	>
Operating temperature	-40°C to +125°C		

Resistance @ 25°C	Resistance @ 70°C	TCR	Order Code
680ohm	799ohm	±3900ppm/°C	117-4314
1kohm	1135ohm	±3000ppm/°C	117-4311
1kohm	1175ohm	±3900ppm/°C	117-4315
2kohm	2270ohm	±3000ppm/°C	117-4312
2kohm	2351ohm	±3900ppm/°C	117-4317
3kohm	3405ohm	±3000ppm/°C	117-4313
3kohm	3526ohm	±3900ppm/°C	117-4318

207361

Order Code	Price Each 5+	25+	100+	500+	1K+
All Values ●					

PTC

Surface mount PTC thermistors with silver terminations supplied on tape and reel, suitable for **reflow soldering** only. The very small 25V B59701 Series are for limit temperature sensing, and the 80V 120°C B59707 device is suitable for overcurrent protection, time delay and current stabilisation.

B59701: H=2.0, W=1.25, D=0.85, Terminations W=0.75 max.

B59607/59707: H=3.2, W=2.5, D=1.7, Terminations W=0.5 ± 0.25

PTC - continued

	B59701	B59607	B59707
Max. operating voltage	25V (T_A = 0 to 40°C)	30V(T_A = 60°C)	80V(T_A = 60°C)
Rated resistance R_N	≤1KΩ	55Ω	125Ω
Threshold temp. tol. ΔT	±5%	—	—
Resistance	≤5.5KΩ (T_{NAT} -ΔT)	—	—
	≥13.3KΩ (T_{NAT} +ΔT)	—	—
	≥40KΩ (T_{NAT} +15K	—	—
Switching Current	—	90mA, 300mA max.	90mA, 300mA max.

Mftrs. List Nos:					
B59701A70A62	=	387-6690	B59701A110A62	=	730-178
B59701A90A62	=	730-166	B59607A120A62	=	387-6767
B59701A100A62	=	387-6718	B59707A120A62	=	730-245

207355

Voltage max.	T_{NAT} Threshold Temp. (nom.)	Order Code	Price Each 1+	100+	250+
25V	70°C	SMD 387-6690● RL			
25V	90°C	SMD 730-166● RL			
25V	100°C	SMD 387-6718● RL			
25V	110°C	SMD 730-178● RL			
30V	120°C	SMD 387-6767● RL			
80V	120°C	SMD 730-245● RL			

Limit Temperature Sensors - 0402, 0603 and 0805 Cases

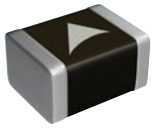
Features:
- Fast and reliable response
- Suitable for reflow soldering
- Suitable for wave soldering (Superior Series only)

Applications:
- DC/DC converters
- Automotive electronics
- Over temperature protection of power components

423501

Tripping Temp.	Mftrs. List No.	Order Code	Price Each 5+	100+	250+	500+
0402 Case Size						
Superior Series						
±5 °C Tolerance						
75°C	B59421A0075A062	NEW 188-6572●				
85°C	B59421A0085A062	NEW 188-6573●				
95°C	B59421A0095A062	NEW 188-6574●				
105°C	B59421A0105A062	NEW 188-6576●				
115°C	B59421A0115A062	NEW 188-6577●				
125°C	B59421A0125A062	NEW 188-6578●				
135°C	B59421A0135A062	NEW 188-6579●				
0603 Case Size						
Standard series						
±5 °C Tolerance						
85°C	B59601A0085A062	SMD 111-2825● RL				
95°C	B59601A0095A062	SMD 111-2826● RL				
105°C	B59601A0105A062	SMD 111-2827● RL				
135°C	B59601A0135A062	SMD 111-2830● RL				
Tight Resistance Series						
±5 °C Tolerance						
55°C	B59603A0055A062	NEW 184-3297●				
70°C	B59602A0055B062	NEW 184-3298●				
85°C	B59603A0085A062	NEW 184-3299●				
105°C	B59603A0105A062	NEW 184-3300●				
Superior Series						
±5 °C Tolerance, ±7 °C Tolerance						
85°C, 100°C	B59641A0085A062	NEW 188-6580●				
95°C, 110°C	B59641A0095A062	NEW 188-6581●				
105°C, 120°C	B59641A0105A062	NEW 188-6582●				
115°C, 130°C	B59641A0115A062	NEW 188-6583●				
125°C, 140°C	B59641A0125A062	NEW 188-6584●				
135°C, 150°C	B59641A0135A062	NEW 188-6585●				
145°C	B59641A0145A062	NEW 188-6586●				
0805 Case Size						
Superior Series						
±5 °C Tolerance						
70°C	B59721A0070A062	NEW 188-6588●				
80°C	B59721A0080A062	NEW 188-6589●				
90°C	B59721A0090A062	NEW 188-6590●				
100°C	B59721A0100A062	NEW 188-6591●				
110°C	B59721A0110A062	NEW 188-6592●				
120°C	B59721A0120A062	NEW 188-6593●				
130°C	B59721A0130A062	NEW 188-6594●				

PTC thermistors - for overcurrent protection



- Can handle power line voltages - maximum volatage 265 V
- Overcurrent protection
- Short-circuit protection
- Compact 1210 package size
- Higher rated currents are achieved by parallel connection of several PTC thermistors
- Short response times
- Suitable for reflow soldering only
- Suitable for automatic placement

Resistance	400R	Voltage Rating, AC	265V
Operating Temperature	+125°C	Voltage Rating, DC	265V
Tripping Current	40mA		

480824

Tripping Temp.	Mftrs. List No.	Order Code	Price Each 5+	100+	250+	500+	1K+
±25% Tolerance							
90°C	B59807A0090A062	SMD 133-7328●					

PTC

A range of leaded disc PTC thermistors designed for over current and short-circuit protection applications, B/F recognised

Lead L=35 (min.), Lead spacing=5.08

Rated Current I_N (mA)	Switching Current I_S (mA)	R_{25} ± 25% Ω	$d_{max.}$ (mm)	Mftrs.List No.	Order Code
V Ref = 24V, V max, = 30V, T ref. = 120°C					
1300	2600	0.45	17.5	B59945C120A70	975-3052
850	1700	0.8	13.5	B59955C120A70	975-3060
600	1200	1.2	11	B59965C120A70	975-3079
450	900	1.8	9	B59975C120A70	975-3087
250	500	4.6	6.5	B59985C120A70	975-3095
120	240	13	4	B59995C120A70	975-3109
V Ref = 63V, V max, = 80V, T ref. = 120°C					
700	1400	1.65	22	B59930C120A70	975-3117
450	900	2.3	17.5	B59940C120A70	975-3125
320	640	3.7	13.5	B59950C120A70	975-3133
250	500	5.6	11	B59960C120A70	975-3141
150	300	9.4	9	B59970C120A70	975-3150
85	170	25	6.5	B59980C120A70	975-3168
50	100	55	4	B59990C120A70	975-3176
V Ref = 110V, V max, = 160V, T ref. = 160°C					
525	1050	3.7	22	B59830C160A70	975-3192
400	800	6	17.5	B59840C160A70	975-3206
250	500	10	13.5	B59850C160A70	975-3214
125	250	25	9	B59870C160A70	975-3230
35	70	150	4	B59890C160A70	975-3257
V Ref = 220V, V max, = 265V, T ref. = 120°C					
650	1300	2.6	26	B59810C120A70	975-3265
200	400	10	13.5	B59850C120A70	975-3273
140	280	15	11	B59860C120A70	975-3281
100	200	25	9	B59870C120A70	975-3290
80	160	35	9	B59872C120A70	975-3303
55	110	65	9	B59875C120A70	975-3311
55	110	70	6.5	B59880C120A70	975-3320
30	60	150	4	B59890C120A70	975-3338

207356

Rated Current I_N	Order Code	Price Each 1+	100+	250+	500+	1K+
V max.=30V						
1300mA	975-3052●					
850mA	975-3060●					
600mA	975-3079●					
450mA	975-3087●					
250mA	975-3095●					
120mA	975-3109●					
V max.=80V						
700mA	975-3117●					
450mA	975-3125●					
320mA	975-3133●					
250mA	975-3141●					
150mA	975-3150●					
85mA	975-3168●					
50mA	975-3176●					
V max.=160V						
525mA	975-3192●					
400mA	975-3206●					
250mA	975-3214●					
125mA	975-3230●					
35mA	975-3257●					
V max.=265V						
650mA	975-3265●					
200mA	975-3273●					
140mA	975-3281●					

RoHS ● Compliant ▲ Non-compliant

Rated Current I_N	Order Code	Price Each 1+	100+	250+	500+	1K+
V max.=265V						
100mA	**975-3290●**					
80mA	**975-3303●**					
55mA	**975-3311●**					
55mA	**975-3320●**					
30mA	**975-3338●**					

PTC

A range of leaded disc thermistors with positive temperature coefficient primarily intended for overload protection of equipment such as motors, transformers, lamps, rechargeable batteries and power supplies.

Switch temperature T_S = 140°C (all types)
Rated temperature range
Low voltage range -40°C to +85°C
Mains voltage range 0 to 70°C

I_{nt} @ 25°C (mA)	I_t @ 25°C (mA)	R_{25} ± 25% (Ω)	I_{max} (A)	d_{max} (mm)	Mftrs.List No.	Order Code
Low Voltage, Vmax = 30V dc (except 478-090 = 60V)						
130	195	25	1.2	4.6	PTCCL05H131EBE	118-7068
270	405	6	2.5	4.6	PTCCL05H271DBE	118-7069
320	480	5	3.5	6.5	PTCCL07H321DBE	118-7070
410	615	3	4.5	6.5	PTCCL07H411DBE	118-7071
470	705	2.5	5	8.5	PTCCL09H471DBE	118-7072
700	1050	1.3	8	10.5	PTCCL11H701DBE	118-7073
920	1380	0.9	11	12.5	PTCCL13H921DBE	118-7074
1170	1755	0.7	13.5	16.5	PTCCL17H112DBE	118-7075
Mains Voltage, Vmax = 265V rms						
11	17	3	0.08	5	PTCCL05H110HBE	118-7076
19	29	1.2	0.14	5	PTCCL05H190HBE	118-7078
28	42	500	0.2	5	PTCCL05H280HBE	118-7079
39	59	260	0.3	5	PTCCL05H390HBE	118-7080
76	115	85	0.55	5	PTCCL05H760HBE	118-7081
110	165	48	0.65	7	PTCCL07H111HBE	118-7082
170	255	22	0.9	8.5	PTCCL09H171HBE	118-7083
320	480	8.4	2.2	12.5	PTCCL13H321HBE	118-7084
700	1050	2.8	5.5	20.5	PTCCL21H701HBE	118-7085

207359

	Trip current @ 25°C	Order Code	Price Each 1+	10+	100+	300+	1K+
Mains Voltage							
PTCCL05H110HBE	17mA	**118-7076●**					
PTCCL05H190HBE	29mA	**118-7078●**					
PTCCL05H280HBE	42mA	**118-7079●**					
PTCCL05H390HBE	59mA	**118-7080●**					
PTCCL05H760HBE	115mA	**118-7081●**					
PTCCL07H111HBE	165mA	**118-7082●**					
PTCCL09H171HBE	255mA	**118-7083●**					
PTCCL13H321HBE	480mA	**118-7084●**					
PTCCL21H701HBE	1050mA	**118-7085●**					

Nickel Thin Film Linear Thermistors

NEW

Features
- Nickel thin film PTC element
- High stability over the entire temperature range
- operating temperature -55°C to 150°C
- ±1% Tolerance

Description
These thermistors are based on a Nickel thin film resistor technology as thermal sensitive material. The device consists of a thin film ceramic chip with two tinned copper clad steel wire leads.

Resistance @ 25°C	Thermistor Type	Mftrs. List No.	Order Code
220R	PTC	TFPTL15L2200FL2B	210-3154
1K5	PTC	TFPTL15L1501FL2B	210-3155
3K9	PTC	TFPTL15L3901FL2B	210-3156
5K	PTC	TFPTL15L5001FL2B	210-3157
100R	PTC	TFPTL10L1000FL2B	210-3158
470R	PTC	TFPTL10L4700FL2B	210-3159
1K	PTC	TFPTL10L1001FL2B	210-3160

660274

Order Code	Price Each 1+	10+	50+	100+	500+
2103154					
2103155					
2103156					
2103157					
2103158					
2103159					
2103160					

PTC

Positive temperature coefficient thermistors designed for temperature measurement and control applications in low voltage circuits. Mounted on tinned brass tags for ease of installation.

Overall length=50.0 min., Lead length=32.0 min. Body length=6.0, Lead diameter=0.5, Tab diameter=8.5, Hole diameter=3.7

Resistance @ 25°C = 100Ω max.
@ T_{NAT} -5°K = 550Ω max.
@ T_{NAT} +5°K = 1330Ω max.
Maximum PTC voltage 2.5V dc
Maximum operating voltage @ 40°C ambient 30V dc
Insulation test voltage 500V/5s
Operating temperature -25°C to +155°C

Mftrs. List Nos: B59901D070A40 = 129-9933, B59901D130A40 = 218-870
B59901D90A40 = 218-832,

207358

Threshold Temp. T_{NAT}	Order Code	Price Each 1+	10+	100+	250+
70°C	**129-9933●**				
90°C	**218-832●**				
130°C	**218-870●**				

Limit Temperature Sensor - PTC

B59801 Series

- Insulated screw-type metal case
- Thread M3
- Tinned leads
- Marked with nominal threshold temperature and type designation
- Characteristics for nominal threshold temperatures T_{NTT} = 90 to 120 °C conform with DIN 44081
- Fast response due to small dimensions

Tripping Temperature °C	Resistance @ 25°C (Ω)	Voltage Rating (V)	Mftrs. List No.	Order Code
80	100	30	B59801D080A40	129-9935
100	100	30	B59801D100A40	129-9937
120	100	30	B59801D120A40	129-9939

L=15, W=8, D = 8, Lead length = 32, Lead dia. = 0.5

452136

Order Code	Price Each 1+	10+	100+	250+
129-9935●				
129-9936●				
129-9937●				
129-9939●				

Immersion Sensor Thermistors

NEW

Features
- Fast time response for fluid immersion applications
- Reduced thermal gradient, due to the use of small tip dimensions and thin isulated wire
- Sensor for permanent contact with water or other liquids

Description
Miniature insulated chip NTC thermistor mounted in a stainless steel housing with brass collar for sealed mounting and twin PVC isulated AWG#30 lead wire connection.

Resistance @ 25°C	Beta Value (K)	Thermistor Type	Mftrs. List No.	Order Code
10K	3984	NTC	NTCAIMMEC90373	210-3193

660282

Mftrs. List No.	Order Code	Price Each 10+	100+	500+	1K+	4K+
NTCAIMMEC90373	2103193					

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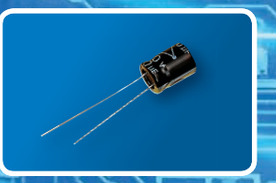
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