

LED DESIGN KITS • CHIP LEDS

OPTEK LED
DESIGN KIT

Kit Contents:

- OPA729, 10- 1 Watt LEDs on Light Bar Assembly
- OPA730, 12- 1 Watt LEDs on Light Ring Assembly
- OPA731, 20- 1 Watt LEDs on Light Flood Assembly
- OPA733R, Single 1 Watt Red LED Spot on Round Assembly
- OPA733Y, Single 1 Watt Yellow LED Spot on Round Assembly
- OPA733G, Single 1 Watt Green LED Spot on Round Assembly
- OPA733B, Single 1 Watt Blue LED Spot on Round Assembly
- OPA733W, Single 1 Watt White LED Spot on Round Assembly
- OPA739, 3- 1 Watt White LEDs on Square Assembly
- OPA740, 10- 1 Watt White LEDs on Light Bar Assembly with Lens
- OPA741, 12- 1 Watt White LEDs on Light Ring Assembly with Lens
- OPA742, Single 1 Watt White LED Light Spot with Lens
- LD350, Blue Dot Power Cube, 350 mA with 110 VAC Power cord.
- LD700, Green Dot Power Cube, 700 mA with 110 VAC Power cord.
- LD1400, Red Dot Power Cube, 1400 mA with 110 VAC Power cord.
- LED Designer Kit Reference Manual - With LED and Assembly Specifications and Data Sheets

To shorten the design process Optek has created a kit containing their latest high power LEDs mounted on Another[®] substrates, power sources, and a reference manual. This kit provides lighting design engineers with the appropriate resources to develop products for a variety of solid-state lighting applications. Circuit boards consist of a highly thermally conductive aluminum alloy substrate, with a special anodized aluminum oxide electrically insulating layer chemically grown on the aluminum core. The result is a low cost, rigid circuit board with unsurpassed thermal efficiency. The completely inorganic construction results in substrate characteristics that maintain their properties even at high continuous operating temperatures. Hi brightness, high power LEDs benefit from Another[®] substrates, allowing excellent heat transfer from the LED package, resulting in more light output and operation at higher power levels. Each item in the kit may be purchased separately.

Mfg. Part No.	Description	Stock No.	Price Each
● OPAKIT-100	Visible Light Emitting Diodes (VLED) Lighting Design Kit	30M4575	650.000

(90541)

POWER LINE
DESIGNER KIT

Just Added



Applications:

- Architectural Accent Lighting
- Under-counter Lighting
- Media Illumination
- Lighting for Large Channel Letters
- Backlighting for Light Boxes
- Point-of-sale Displays

The self-contained Power Line Designer Kit is a flexible and scalable lighting solution using mid-power LEDs to supply high luminous flux without additional heatsinking requirements. The kit includes components and instructions to allow a designer to configure LED placement as needed for uniform illumination in his application.



Mfg. Part No.	Kit Contents	Stock No.	Price Each
● OVPL5W3K	5 PCBs 8" in length, 3 0.5-Watt white LEDs per PCB, on-board regulator, included Wire harness with connector, Hand insertion tool	11N5698	35.000

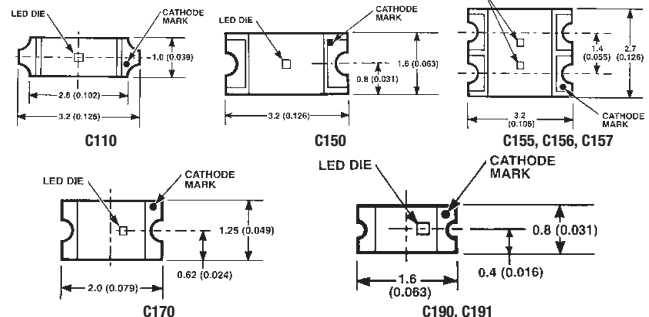
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element14

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(148859)

SURFACE MOUNT CHIP LEDS



Features:

- Small Size
- Industry Standard Footprint
- Operating Temp.: -30°C to +85°C
- Compatible with IR Soldering
- Available in 8mm Tape on 7" Diam. Reel
- Reel Sealed in Zip-Locked Moisture Barrier Bags

Applications:

- Membrane Switch Indicator
- LCD Backlighting
- Pushbutton Backlighting
- Front Panel Indicator
- Symbol Backlighting
- Keypad Backlighting

DIMENSIONS

Mfg. Part No. Suffix	L x W x H	Mfg. Part No. Suffix	L x W x H
C150	3.2 x 1.6 x 1.1mm	C110	3.2 x 1.0 x 1.5mm
C170	2.0 x 1.25 x 0.8mm	C155	3.2 x 2.7 x 1.1mm
C190	1.6 x 0.8 x 0.8mm	C156	3.2 x 2.7 x 1.1mm
C191	1.6 x 0.8 x 0.6mm	C157	3.2 x 2.7 x 1.1mm

Top mount. Diffused lens. Viewing angle: 170°. Test current: 20mA.

TOP MOUNT-C150

Mfg. Part No.	Color	Wave-length (nm)	Luminous Intensity (mcd)	Forward Voltage (V)	Stock No.	1-9	10-49
● HSMH-C150	AlGaAs Red	639	17	1.8	98B5059	0.228	0.120
● HSMS-C150	Red	626	10	2.1	40K0143	0.228	0.120
● HSMD-C150	Orange	604	8	2.2	98B5044	0.228	0.120
● HSMY-C150	Yellow	586	8	2.1	98B5070	0.228	0.120
● HSMG-C150	Green	572	15	2.2	40K0120	0.228	0.120
● HSMB-C150	GaN Blue	466	6	3.8	40K0105	0.833	0.570
● HSMN-C150	InGaN Blue	470	30	3.5	43K7073	0.600	0.411
● HSMH-C150	InGaN Green	525	120	3.5	43K7070	0.833	0.570
● HSMQ-C150	InGaN Sapphire Green	520	145	3.4	27C3129	0.833	0.570
● HSMR-C150	InGaN Sapphire Blue	469	55	3.4	40K0139	0.600	0.411

TOP MOUNT LOW PROFILE-C170

● HSMH-C170	AlGaAs Red	639	17	1.8	21M5390	0.228	0.120
● HSMS-C170	Red	626	10	2.1	40K0144	0.228	0.120
● HSMD-C170	Orange	604	8	2.2	40K0113	0.228	0.120
● HSMY-C170	Yellow	586	8	2.1	40K0151	0.228	0.120
● HSMC-C170	Green	572	15	2.2	40K0110	0.380	0.240
● HSMG-C170	Green	573.5	2.8	2.2	40K0121	0.228	0.120
● HSMB-C170	Blue	466	8	3.8	40K0106	0.833	0.570
● HSMN-C170	InGaN Blue	470	30	3.5	43K7074	0.600	0.411
● HSMH-C170	InGaN Green	525	120	3.5	43K7071	0.833	0.570
● HSMQ-C170	InGaN Sapphire Green	520	145	3.4	40K0137	0.833	0.570
● HSMR-C170	InGaN Sapphire Blue	469	55	3.4	40K0140	0.600	0.411

TOP MOUNT VERY LOW PROFILE-C170

● HSMA-C170	Amber	592	90	1.9	40K0102	0.380	0.240
● HSMC-C170	Red	626	90	1.9	40K0110	0.380	0.240
● HSML-C170	Orange	605	90	1.9	98B5065	0.380	0.240

TOP MOUNT LOW PROFILE-C190

● HSMH-C190	AlGaAs Red	639	17	1.8	40K0127	0.228	0.120
● HSMS-C190	Red	626	10	2.1	40K0145	0.228	0.120
● HSMD-C190	Orange	604	8	2.2	98B5046	0.228	0.120
● HSMY-C190	Yellow	568	8	2.1	40K0152	0.228	0.120
● HSMG-C190	Green	572	15	2.2	40K0122	0.228	0.120
● HSMB-C190	Blue	486	8	3.8	40K0107	0.833	0.570

➤ CONTINUED ➤

CHIP LEDS

SURFACE MOUNT CHIP LEDS (CONT.)

TOP MOUNT VERY LOW PROFILE-C191

Mfg. Part No.	Color	Wave-length (nm)	Luminous Intensity (mcd)	Forward Voltage (V)	Stock No.	1-9	10-49
● HSMH-C191	AlGaAs Red	639	17	1.8	19C7099	0.228	0.120
● HSMH-C191	Orange	604	8	2.2	19C7097	0.228	0.120
● HSMY-C191	Yellow	568	8	2.1	40K0153	0.228	0.120
● HSMG-C191	Green	572	5	2.2	40K0123	0.228	0.120
● HSMA-C191	Amber	592	90	1.9	19C7094	0.380	0.240
● HSMC-C191	Red	626	90	1.9	40K0111	0.380	0.240
● HSML-C191	Orange	605	90	1.9	40K0133	0.380	0.240
● HSMQ-C191	Green	527	145	3.9	27C3132	0.375	...

TOP MOUNT VERY LOW PROFILE-C190

● HSMA-C190	Amber	592	90	1.9	98B5032	0.380	0.240
● HSMC-C190	Red	626	90	1.9	98B5041	0.380	0.240
● HSML-C190	Orange	605	90	1.9	98B5066	0.380	0.240

UNTINTED, UNDIFFUSED C265

● HSMG-C265	Green	570	15	2.2	27C3101	0.122	...
● HSMA-C265	Amber	595	28.5	2.4	43K7069	0.380	0.240
● HSMC-C265	Red	595	75	2.4	83H6795	0.120	...

TOP MOUNT-A101

● HSMA-A101-S00J1	Amber	590	220	2.4	20H7493	0.347	0.219
● HSMC-A101-S00J1	Red	626	220	2.4	07H6670	0.377	0.198

RIGHT ANGLE-C110

Right angle. Non-diffused lens. Viewing angle: 130°. Test current: 20mA.

Mfg. Part No.	Color	Wave-length (nm)	Luminous Intensity (mcd)	Forward Voltage (V)	Stock No.	Price Each	
						1-9	10-49
● HSMH-C110	AlGaAs Red	639	18	1.8	40K0125	0.228	0.120
● HSMS-C110	Red	626	11	2.1	19C7101	0.228	0.120
● HSMH-C110	Orange	604	9	2.2	98B5043	0.228	0.120
● HSMY-C110	Yellow	586	9	2.1	98B5069	0.228	0.120
● HSMG-C110	Green	572	16	2.2	98B5052	0.228	0.120
● HSMB-C110	Blue	486	6.5	3.8	98B5035	0.833	0.570
● HSMA-C110	Amber	592	96	1.9	98B5030	0.428	0.270
● HSML-C110	Orange	605	95	1.9	40K0132	0.428	0.270
● HSMC-C110	Red	626	90	1.9	40K0109	0.428	0.270
● HSMH-C110	InGaP Green	525	126	3.5	27C3107	0.833	0.570
● HSMN-C110	InGaP Blue	470	39	3.5	43K7072	0.600	0.411
● HSMQ-C110	InGaP Sapphire Green	520	150	3.4	40K0136	0.833	0.570
● HSMR-C110	InGaP Sapphire Blue	469	60	3.4	40K0138	0.600	0.411

TOP MOUNT LOW PROFILE-S670

Mfg. Part No.	Color	Footprint (mm)	Wave-length (nm)	Luminous Intensity (mcd)	Stock No.	Price Each	
						1-9	10-49
● HSMC-S670	Red-Orange	2.0 x 1.25 x 0.8	626	50	91F6241	0.467	0.320

BI-COLOR-C155/6/7

Bi-color with diffused lens. Viewing angle: 170°. Test current: 20mA.

Mfg. Part No.	Color	Wave-length (nm)	Luminous Intensity (mcd)	Forward Voltage (V)	Stock No.	Price Each	
						1-9	10-49
● HSMF-C155	Green/Red	572/626	15/10	2.2/2.1	40K0118	0.333	0.140
● HSMF-C156	Green/Yellow	572/568	15/8	2.2/2.1	98B5050	0.333	0.140
● HSMF-C157	Green/Orange	572/604	15/8	2.2/2.2	98B5051	0.333	0.140
● HSMF-C165	Red/Green	570/630	15/10	2.2/2.1	27C3095	0.333	0.140
● HSMF-C166	Yellow/Green	586/572	2.5/4	2.1/2.2	42K5959	0.333	0.140

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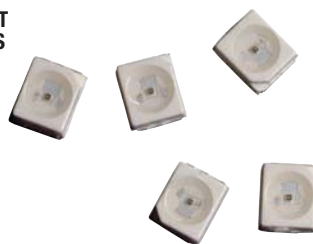


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SURFACE MOUNT LED INDICATORS


AVAGO
TECHNOLOGIES


Applications

- Interior automotive such as instrument panel backlighting, central console backlighting and cabin backlighting
- Electronic signs and signals such as interior full color sign and variable message sign
- Office automation, home appliances and other industrial equipment such as front panel backlighting, push button backlighting and display backlighting

Features

- Standard PLCC-2 package
- High brightness using AlInGaP and InGaP dice technologies
- Super wide viewing angle at 120°
- Compatible with both IR and TTV soldering process

Sold in reel qty. of 2000.

AlGaAs

Mfg. Part No.	Color	Intensity (mcd)	Volt. (V)	Tape Cut		Tape & Reel	
				Stock No.	Price Each	Stock No.	Price Each
● HSMH-A100-L00J1	Red	15	1.9	96H6864	0.259	40K0124	0.060

AlInGaP

● HSMF-A100-L01J1	Green	40	1.9	40K0114	0.512	40K0115	0.118
● HSML-A100-Q00J1	Orange	100	1.9	40K2773	0.276	40K0131	0.064
● HSMC-A100-Q00J1	Red	100	1.9	40K0108	0.276	82C5518	0.064
● HSMZ-A100-R00J1	Red	400	2.2	96H6878	0.594	96H6879	0.165
● HSMJ-A100-Q00J1	Red Orange	100	1.9	96H6865	0.276	40K0128	0.064
● HSMV-A100-R00J1	Red Orange	100	2.2	40K0147	0.570	40K0148	0.159
● HSMF-A100-M02J1	Yellow Green	70	1.9	40K0116	0.489	40K0117	0.113
● HSMA-A100-Q00J1	Yellow/Amber	100	1.9	96H6857	0.276	40K0097	0.064
● HSMU-A100-R00J1	Yellow/Amber	270	2.2	96H6872	0.570	96H6873	0.159

GaP

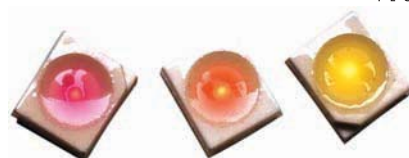
● HSMH-A100-J00J1	Orange	15	2.2	96H6860	0.248	40K0112	0.057
● HSMS-A100-J00J1	Red	15	2.2	40K0141	0.219	40K0142	0.051
● HSMG-A100-J02J1	Yellow Green	18	2.2	96H6863	0.219	40K0119	0.051
● HSMY-A100-J00J1	Yellow/Amber	12	2.2	40K0150	0.248	96H6877	0.057

InGaP

● HSMN-A100-P00J1	Blue	70	3.4	96H6869	1.030	40K0135	0.422
● HSMH-A100-S00J1	Green	350	3.4	40K0134	1.260	...	...

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ENVISION POWER SURFACE MOUNT LEDs


AVAGO
TECHNOLOGIES


Features

- High optical efficiency
- Super wide viewing angle at 120°
- Industry standard PLCC-4 (Plastic Leaded Chip Carrier)
- High reliability LED package
- Available in 8mm carrier tape on 7" reel
- Compatible with both IR and TTV soldering process

Applications

- Automotive
- Electronic signs and signals
- Office automation
- Home appliances
- Industrial equipment

Envision LEDs offers unparalleled performance, engineering and design flexibility options for mid-power LEDs. Agilent and Lumileds™ co-developed Mid-Power LEDs. The Envision Power PLCC-4 SMT LED is an extension of Agilent PLCC-4 SMT LEDs. This package can dissipate heat more efficiently and be driven at higher currents due to its superior package design compared to the conventional PLCC-2 SMT LEDs. This family of LEDs is able to produce higher light output with best Flux performance compared to the conventional PLCC-4 SMT LEDs. The Envision Power PLCC-4 SMT LEDs are designed for higher reliability, better performance, and operate under a wide range of environmental conditions.

Mfg. Part No.	Color	Wave-length (nm)	Intensity Min (mcd)	Tape Cut	
				Stock No.	Price Each
● ASMC-PAB9-TV005	Amber	592	630	21K6585	0.855
● ASMC-PHB9-TW005	Red Orange	617	1000	21K6586	0.855
● ASMC-PRB9-TV005	Red	630	630	21K6587	0.855
● ASMC-QAB2-TAC0E	Amber	594	470	19M9321	1.200
● ASMC-QHB2-TC00E	Red Orange	619	240	19M9322	1.200

(84011)

CHIP LEDS

SMT RED LEDS


AVAGO
TECHNOLOGIES

Mfg. Part No.	Color	Forward Current (mA)	Luminous Intensity (mcd)	Viewing Angle (°)	Stock No.	Price Each
● HLMT-QG00-T0011	Red	100	1000	15	58M7031	0.218
● HSMC-A461-V00M1	Red	70	1750	50	46M5421	0.780

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SURFACE MOUNT PLCC LEDS


AVAGO
TECHNOLOGIES

NEW TECHNOLOGY

PLCC-4 TRICOLOR LED

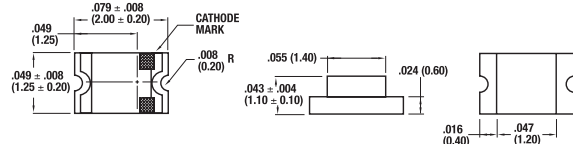
Mfg. Part No.	Color	Luminous Intensity (mcd)	Viewing Angle (°)	Forward Voltage (V)	Stock No.	Price Each
● ASMT-QT80-0AA02	Red/Green/Blue	2.7	120	3.2	89M7166	1.620
● ASMT-QT80-0AA02	Red/Green/Blue	2.6	115	3.2	89M7167	1.740

PLCC-6 TRICOLOR LED

Mfg. Part No.	Color	Luminous Intensity (mcd)	Viewing Angle (°)	Forward Voltage (V)	Stock No.	Price Each
● ASMT-YT80-0AA02	Red/Green/Blue	2.6	115	3.2	89M7168	1.800

(148705)

CMD17-21 SERIES (0805) SURFACE MOUNT LEDS


CML INNOVATIVE TECHNOLOGIES
WHERE INNOVATION COMES TO LIGHT
formerly Chicago Miniature Lamp and S1 Miniature Lighting


- Consistent High Brightness
- Integral Lensing for Narrow Angle Light Description

Features:

Lens color: clear. Current rate: 20mA. Viewing angle: 140°. Also available tape on reel for high-speed insertion.

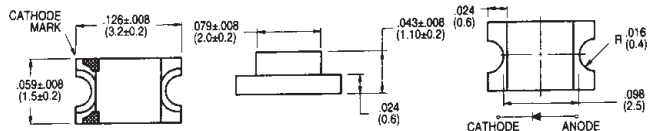
Mfg. Part No.	Color	Luminous Intensity Typ. (mcd)	V _f	Wave-length (nm)	Stock No.	Price Each
● CMD17-21SRC/TR8	Super Red	21.0	1.7	660	93K6510	0.485
● CMD17-21VRC/TR8	H.E. Red	13.0	2.0	640	34C8663	0.277
● CMD17-21VYC/TR8	Yellow	12.0	2.0	585	34C8665	0.277
● CMD17-21VGC/TR8	Green	10.0	2.0	570	34C8661	0.277
● CMD17-21UGC/TR8	Green	15.0	2.1	570	93K6511	0.312
● CMD17-21VRD/TR8*	H.E. Red	6.0	2.0	640	34C8664	0.312
● CMD17-21VYD/TR8*	Yellow	4.0	2.0	585	07J1781	0.176
● CMD17-21VGD/TR8*	Green	7.0	2.1	570	34C8662	0.312

*Diffused lens
(69147)

CMD15-21 AND 22 SERIES (1206 & 1210) SURFACE MOUNT LEDS


CML INNOVATIVE TECHNOLOGIES
WHERE INNOVATION COMES TO LIGHT
formerly Chicago Miniature Lamp and S1 Miniature Lighting

SMD



The CMD15 series surface mount LEDs are designed to permit easy post-reflow solder joint inspection. All types have clear lenses and viewing angle of 140° except mfg. part nos. CMD15-21VRD, VGD, and VYD which are diffused and have viewing angle of 160°. Average forward current: 30ma except for Green which is 25ma. Reverse voltage (@ I_R = 100µA) = 5.0V. Also available in tape on reel for high-speed insertion.

CMD15-21 SERIES

Mfg. Part No.	Color	Luminous Intensity (mcd)	V _f	Wave-length (nm)	Stock No.	Price Each
● CMD15-21SRC/TR8	Super Red	15.0	1.7	660	93K6504	0.471
● CMD15-21VRC/TR8	H.E. Red	6.0	2.0	640	93B3495	0.362
● CMD15-21VYC/TR8	Yellow	6.0	2.0	585	93K6507	0.399
● CMD15-21VGC/TR8	Green	10.0	2.1	570	15M8857	0.326
● CMD15-21UGC/TR8	Blue	45.0	4.9	430	93K6505	3.550
● CMD15-21UGC/TR8	Green	12.0	2.1	565	93B3513	0.435

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CMD15-21 AND 22 SERIES (1206 & 1210) SURFACE MOUNT LEDS (CONT.)

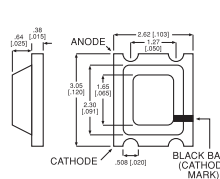
Mfg. Part No.	Color	Luminous Intensity (mcd)	V _f	Wave-length (nm)	Stock No.	Price Each
● CMD15-21VRD/TR8	H.E. Red	4.0	2.0	640	93K6506	0.290
● CMD15-21VGD/TR8	Green	6.5	2.1	570	93B3572	0.290
● CMD15-21VYD/TR8	Yellow	4.0	2.0	585	93K6508	0.290

CMD15-22 SERIES

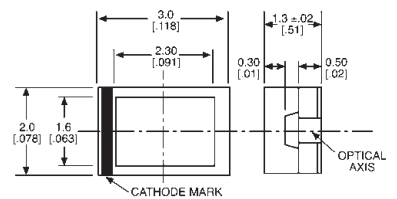
● CMD15-22VRVC/TR8	H.E. Red/GRN	6.0/10.0	2.8/2.1	640/570	93K6509	0.688
● CMD15-22SRUG/TR8	Red/GRN	15.0/12.0	1.7/2.1	660/565	93B3575	0.833

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597 SERIES SURFACE MOUNT LEDS

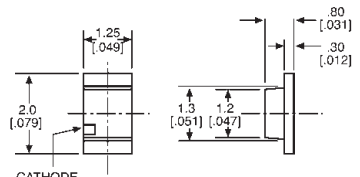

Dialight
Opto-Products


Mfg. Part Nos. 597-3xx1-1xxF

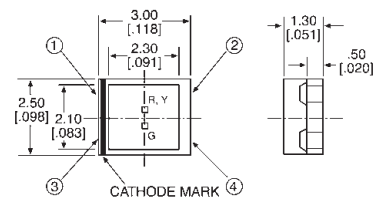


Mfg. Part Nos. 597-3xx1-5xxF

Compatible with automatic placement equipment and infrared reflow processes. Meet EIA-481-1 standard. Help to eliminate mixed technology PC board processing. Compatible with Dialight's Optopipe™ series light pipes. Sold individually on 8mm tape except packages of 20 pieces. Suffix xx2F in mfg. part nos. = Cut Tape; suffix xx7F = full reel quantities of 2000.



Mfg. Part Nos. 597-3xxx-4xxF



Mfg. Part Nos. 597-77x1-5xxF

Mfg. Part No.	Color	Typ. Lum. Intensity (mcd)	V _f (V)	IF (mA)	Stock No.	Price Each
● 597-2001-202F	Red	32	2	10	30K4850	0.616
● 597-2001-213F	Red	32	2	10	30K4851	0.553
● 597-2301-202F	Green	32	2	10	30K4862	0.616
● 597-2301-213F	Green	32	2	10	30K4863	0.553
● 597-2311-402F	Green	5.2	2.1	20	30K4864	0.616
● 597-2311-407F	Green	5.2	2.1	20	30K4865	0.553
● 597-2401-213F	Yellow	32	2	10	30K4867	0.462
● 597-2401-402F	Yellow	3	2.2	20	30K4868	0.616
● 597-2401-407F	Yellow	3	2.2	20	30K4869	0.553
● 597-3001-102F	Red	1.6	2	25	30K4872	0.694
● 597-3001-107F	Red	4	2	20	30K4873	0.622
● 597-3001-207F	Red	10	2	20	30K4876	0.622
● 597-3021-502F	Red	6.3	2	20	30K4891	0.346
● 597-3021-507F	Red	6.3	2	20	30K4892	0.314
● 597-3111-102F	Red	8	1.7	15	30K4893	0.999
● 597-3111-107F	AlGaAs Red	8	1.7	10	30K4894	0.694
● 597-3111-107F	AlGaAs Red	8	1.7	10	30K4894	0.694
● 597-3111-402F	AlGaAs Red	17	1.7	30	30K4899	0.575
● 597-3111-407F	AlGaAs Red	17	1.7	20	30K4900	0.522
● 597-3111-502F	AlGaAs Red	16	1.75	20	30K4901	0.421
● 597-3111-507F	AlGaAs Red	16	1.75	20	30K4902	0.383
● 597-3121-207F	AlGaAs Red	20	1.75	10	30K4904	0.566
● 597-3201-402F	Orange	9	2.2	30	30K4905	0.575
● 597-3222-402F	Yellow	65	1.9	20	30K4924	1.270
● 597-3222-407F	Yellow	65	1.9	20	30K4925	1.150
● 597-3301-102F	Green	10	2.1	20	30K4934	0.694
● 597-3301-107F	Green	12	2	20	30K4935	0.622
● 597-3301-202F	Green	10	2.1	20	30K4936	0.694
● 597-3301-207F	Green	10	2.1	20	30K4938	0.622

➤ CONTINUED ➤

CHIP LEDS

597 SERIES SURFACE MOUNT LEDs (CONT.)

Mfg. Part No.	Color	Typ. Lum. Intensity (mcd)	VF (V)	IF (mA)	Stock No.	Price Each
597-3301-502F	Green	16	2.2	25	30K4944	0.346
597-3301-507F	Green	10	2.1	20	30K4945	0.314
597-3311-402F	Green	7.5	2.1	30	30K4956	0.575
597-3311-407F	Green	7.5	2.2	25	30K4957	0.522
597-3401-102F	Yellow	8	2.1	25	30K4963	0.763
597-3401-107F	Yellow	8	2.1	20	30K4964	0.694
597-3401-202F	Yellow	7	2.1	20	30K4965	0.694
597-3401-207F	Yellow	7	2.1	20	30K4967	0.622
597-3401-402F	Yellow	6	2.2	30	30K4969	0.575
597-3401-407F	Yellow	6	2.2	20	30K4970	0.396
597-3401-502F	Yellow	6.3	2.1	25	30K4971	0.421
597-3401-507F	Yellow	7	2.1	20	30K4972	0.383
597-5004-402F	AlInGaP Red	50	1.9	20	30K4999	1.840
597-5004-407F	AlInGaP Red	50	1.9	20	30K5000	1.670
597-5111-402F	Red	11.7	1.7	20	30K5001	0.575
597-5111-407F	Red	11.7	1.7	20	30K5002	0.522
597-5112-402F	Red	11.7	1.7	20	30K5003	0.537
597-5112-407F	Red	11.7	1.7	20	30K5004	0.484
597-5223-402F	AlInGaP Yellow	65	1.9	20	30K5011	1.840
597-5311-407F	Green	6.4	2.1	20	30K5014	0.522
597-5312-402F	Yellow	11.7	2.1	20	30K5015	0.537
597-5312-407F	Green	6.4	2.1	20	30K5016	0.484
597-5411-402F	Yellow	11.7	2.1	20	30K5017	0.616
597-5411-407F	Yellow	11.7	2.1	20	30K5018	0.553
597-5412-402F	Yellow	11.7	2.1	20	30K5019	0.537
597-5412-407F	Yellow	11.7	2.1	20	30K5020	0.484
597-7701-107F	Red/Green	4/12	2.0/2.0	20	30K5022	0.858
597-7701-202F	Red/Green	16/16	2/2.1	20	30K5023	1.040
597-7701-207F	Red/Green	16/16	2/2.1	20	30K5025	0.936
597-7701-502F	Red/Green	6.3/20	2/2.2	25	30K5027	0.654
597-7701-507F	Red/Green	6.3/20	2/2.2	20	30K5028	0.591
597-7721-102F	Yellow/Green	3/6	2.1/2.0	25	30K5034	1.110
597-7721-107F	Yellow/Green	8/12	2.1/2	20	30K5035	1.010
597-7721-202F	Yellow/Green	16/16	1.8/2.1	20	30K5036	0.990
597-7721-207F	Yellow/Green	16/16	1.8/2.1	20	30K5037	0.826
597-7721-502F	Yellow/Green	6.3/20	2.1/2.2	25	30K5038	0.763
597-7721-507F	Yellow/Green	6.3/20	2.1/2.2	20	30K5039	0.694
597-7731-107F	Red/Yellow	4/8	2.0/2.1	20	30K5043	0.726
597-7731-207F	Red/Yellow	7.3/6.8	2.0/2.0	10	30K5045	0.936

(28882)

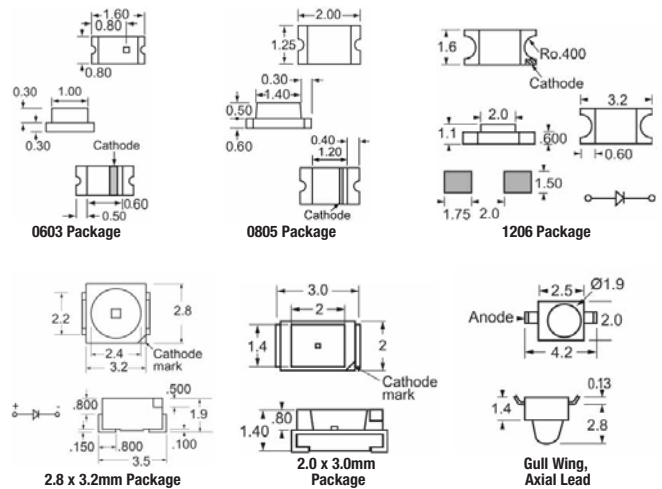


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(148833)

AlInGaP SURFACE MOUNT LEDs



0603 PACKAGE, MILKY LENS COLOR

Mfg. Part No.	Emitted Color	Wave-length (nm)	Lum. Intens. (mcd)	View. Angle (°)	Stock No.	Price Each
597-3301-502F	Super Intensity Orange	610	75	140	75K1448	0.251
597-3301-507F	Super Intensity Red	636	60	140	09J9435	0.444

0805 PACKAGE, CLEAR LENS COLOR

597-3311-402F	Green	565	10	140	09J9649	0.169
597-3311-407F	Super Green	565	15	140	09J9651	0.205
597-3401-102F	Yellow	585	9	140	75K1445	0.169
597-3401-107F	Red	635	9	140	09J9650	0.169
597-3401-202F	Super Intensity Red	636	60	140	75K1444	0.569
597-3401-207F	Super Red	660	25	140	09J9652	0.166

1206 PACKAGE, CLEAR LENS COLOR

597-3401-402F	Super Yellow	590	70	140	75K1450	0.576
597-3401-407F	Orange	610	70	140	75K1448	0.251
597-3401-502F	Super Intensity Red	636	70	140	75K1447	0.251

1210 PACKAGE, CLEAR LENS COLOR

597-3401-507F	Red/Green	635/565	10	160	75K1451	0.334
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2.8 x 3.2mm PACKAGE, CLEAR LENS COLOR

597-3401-502F	Super Ultra Green	574	150	120	09J9450	0.588
597-3401-507F	Super Yellow	590	140	120	09J9451	0.588
597-3401-502F	Super Intensity Red	636	250	120	09J9448	0.789

2.0 x 3.0mm PACKAGE, CLEAR LENS COLOR

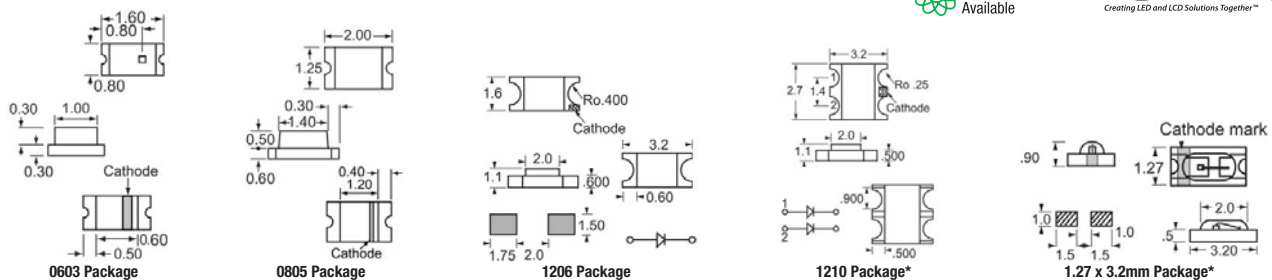
597-3401-507F	Super Yellow	590	200	90	09J9447	0.933
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GULL WING, AXIAL LEAD, CLEAR LENS COLOR

597-3401-507F	Super Yellow	590	300	25	09J9453	0.516
597-3401-502F	Super Intensity Red	636	475	25	09J9452	0.789

(80498)

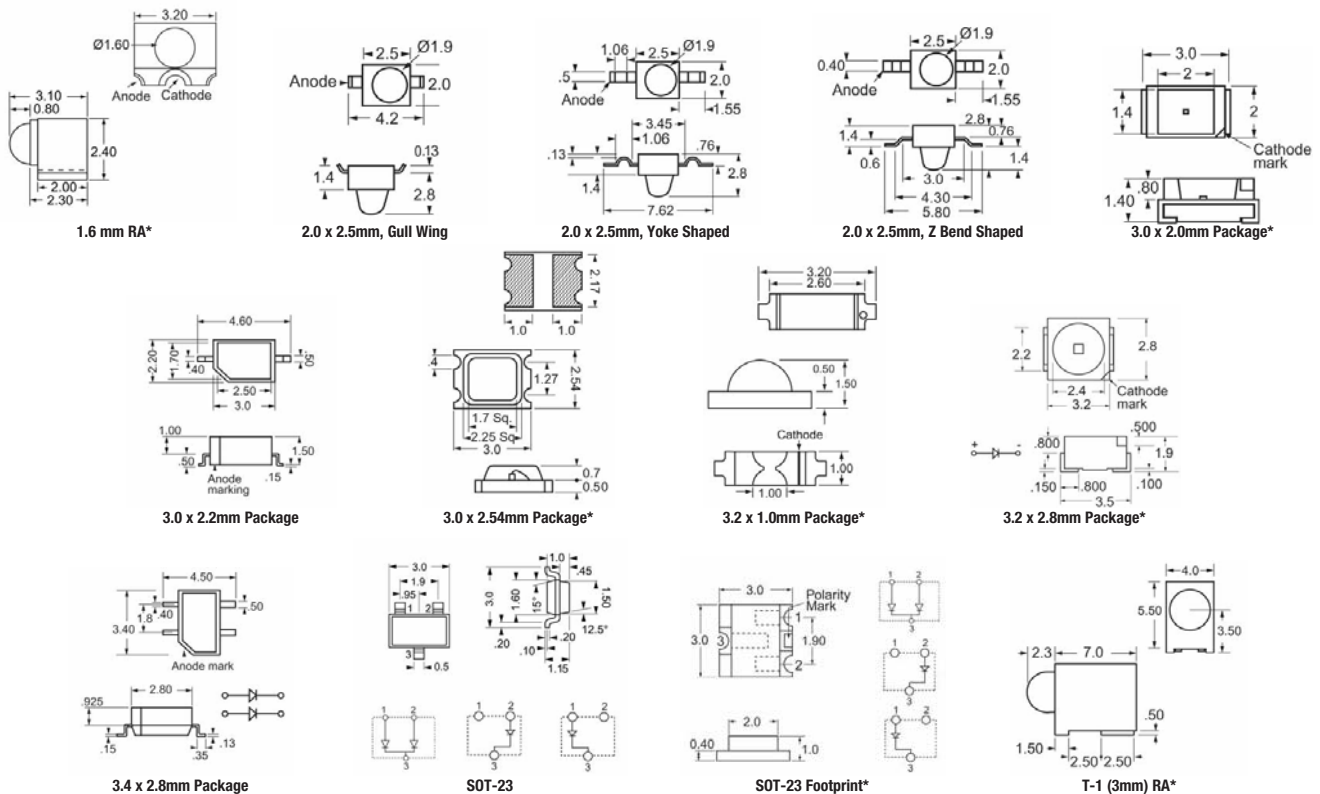
SURFACE MOUNT LEDs



» CONTINUED »

CHIP LEDS

SURFACE MOUNT LEDs (CONT.)



* For further information on these packages, please call or go online.

Mfg. Part No.	Emitted Color	Lens Color	Wavelength (nm)	V _F Typ. (V)	I _F Max. (mA)	Lum. Intens. (mcd)	Viewing Angle (°)	Stock No.	Price Each	
									1-9	10-99
0603 PACKAGE										
● SML-LX0603SRW-TR	Super Red	White Diff.	660	1.7	30	45	140	09J9551	0.179	0.147
● SML-LX0603IW-TR	Red	White Diff.	635	2.0	30	14	160	75K1441	0.199	0.163
● SML-LX0603YW-TR	Yellow	White Diff.	585	2.1	30	14	160	75K1443	0.186	0.152
● SML-LX0603GW-TR	Green	White Diff.	565	2.2	25	18	160	75K1440	0.162	0.133
● SML-LX0603USBW-TR	Ultra Sup Blue	White Diff.	470	3.5	25	20	140	70M9169	3.710	3.040
0805 PACKAGE										
● SML-LXT0805SRW-TR	Super Red	White Diff.	660	1.8	30	21	140	75K1439	0.209	0.172
● SML-LX0805SRC-TR	Sup Red	Clear	660	1.7	30	25	140	09J9652	0.166	0.136
● SML-LXT0805IW-TR	Red	White Diff.	635	2.0	30	11	140	75K1438	0.179	0.147
● SML-LXT0805GW-TR	Green	White Diff.	565	2.2	30	11	140	75K1437	0.172	0.141
● SML-LX0805IC-TR	Red	Clear	635	2.0	30	9	140	09J9650	0.169	0.138
● SML-LXT0805YW-TR	Yellow	White Diff.	585	2.1	30	10	140	80K7320	0.179	0.147
● SML-LX0805GC-TR	Green	Clear	565	2.2	30	10	140	09J9649	0.169	0.138
● SML-LX0805YC-TR	Yellow	Clear	585	2.1	30	9	140	75K1445	0.169	0.138
1206 PACKAGE										
● SML-LXL1206SRC-TR	Sup Red	Clear	660	1.7	30	90	20	70M8860	0.199	0.163
● SML-LX1206SRC-TR	Super Red	Water Clear	660	1.7	30	25	140	09J9557	0.169	0.138
● SML-LX1206YC-TR	Yellow	Water Clear	585	2.1	30	6	160	09J9559	0.176	0.144
● SML-LXL1206GC-TR	Green	Clear	565	2.2	25	20	20	70M9168	0.236	0.194
● SML-LX1206GC-TR	Green	Water Clear	565	2.2	25	10	160	70M8861	0.155	0.127
● SML-LX1206GW-TR	Green	White Diff.	565	2.2	25	10	160	77K7035	0.196	0.160
● SML-LX1206IC-TR	Red	Water Clear	635	2.0	30	6	160	80K7325	0.179	0.147
● SML-LX1206IW-TR	Red	White Diff.	635	2.0	30	6	160	75K1446	0.179	0.147
● SML-LX1210GGC-TR	Green/Green	Water Clear	565/565	2.2	25	10	160	28M9283	0.395	0.323
● CCL-LX45SRT	Super Red	Red Trans.	660	1.8	30	8	180	04M4504	1.230	1.010
● CCL-LX45IT	Red	Red Trans.	635	2.1	30	7.2	180	28M9229	0.826	0.677
● CCL-LX45GT	Green	Green Trans.	565	2.2	30	7	180	09J9539	0.860	0.704
● CCL-LX45YT	Yellow	Yellow Trans.	585	2.1	30	7	180	09J9542	0.880	0.721
● SMF-2432YC-TR	Yellow	Water Clear	585	2.0	30	14	110	09J9543	0.307	0.252
2.0 x 2.5mm, GULL WING										
● SSL-LXA228IC-TR11	Red	Water Clear	635	2.0	30	80	25	09J9596	0.277	0.227
● SSL-LXA228YD-TR11	Yellow	Yellow Diff.	585	2.1	30	15	50	09J9603	0.287	0.235
● SSL-LXA228YC-TR11	Yellow	Water Clear	585	2.1	30	30	25	09J9600	0.267	0.218
2.0 x 2.5mm, YOKE SHAPED										
● SSL-LXA228GD-TR21	Green	Green Diff.	565	2.2	25	4	50	09J9595	0.280	0.229

➤ CONTINUED ➤

SURFACE MOUNT LEDS (CONT.)

2.0 x 2.5mm, Z BEND SHAPED

Mfg. Part No.	Emitted Color	Lens Color	Wavelength (nm)	V _F Typ. (V)	I _F Max. (mA)	Lum. Intens. (mcd)	Viewing Angle (°)	Stock No.	Price Each	
									1-9	10-99
● SSL-LXA228IC-TR31	Red	Water Clear	635	2.0	30	60	25	09J9597	0.277	0.227
● SSL-LXA228YC-TR31	Yellow	Water Clear	585	2.1	30	30	25	67K1165	0.277	0.227
● SSL-LXA228GC-TR31	Green	Water Clear	565	2.2	30	30	25	09J9594	0.257	0.210
● SML-LX23SRC-TR	Super Red	Water Clear	660	1.7	30	100	90	09J9581	0.418	0.343
● SML-LX23YC-TR	Yellow	Water Clear	585	2.1	30	20	90	75K1468	0.348	0.285

3.0 x 2.2mm PACKAGE

● SSL-LXA1725SRC-TR	Super Red	Water Clear	660	1.7	25	30	130	28M9294	0.371	0.304
● SSL-LXA1725YC-TR	Yellow	Water Clear	585	2.1	30	12	130	09J9591	0.324	0.265
CCL-CRS10SR	Super Red	Water Clear	660	1.7	15	40	180	09J9537	0.799	0.655
● SML-LXR85SRC-TR	Super Red	Water Clear	660	1.7	30	30	160	75K1435	0.230	0.188

3.2 x 2.8mm PACKAGE

● SML-LX2832SRC-TR	Super Red	Water Clear	660	1.7	30	100	120	09J9585	0.536	0.439
● SML-LX2832IC-TR	Red	Water Clear	635	2.0	30	25	120	75K1469	0.314	0.257
● SML-LX2832GC-TR	Green	Water Clear	565	2.2	25	25	120	09J9583	0.310	0.254

3.4 x 2.8mm PACKAGE

● SML-LXA3025IGC-TR	Red/Green	Water Clear	635/565	2.0/2.2	30/25	12/20	130	09J9604	0.668	0.547
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SOT-23

● SML-LX15IGC-RP-TR	Red/Green	Water Clear	635/565	2.0/2.2	30/25	10	140	75K1457	0.752	0.616
● SML-LX15IC-RP-TR	Red	Water Clear	635	2.0	30	10	140	60K6782	0.472	0.394
● SSL-LX15GGC-RP-TR	Green/Green	Water Clear	565	2.2	25	10	140	09J9607	0.607	0.497
● SML-LX15SRC-TR	Super Red	Water Clear	660	1.7	30	20	140	75K1459	0.506	0.414
● SML-LX15IGC-RP-TR	Red/Green	Water Clear	635/565	2.0/2.2	30/25	10	140	58K2318	0.741	0.618
● SML-LX15IGC-TR	Red/Green	Clear	635/565	2.0/2.1	30/25	10	140	09J9663	0.634	0.519
● SML-LX15IGC-TR	Red/Green	Clear	635/565	2.0/2.1	30/25	10	140	58K2319	0.634	0.519
● SML-LX15YGC-RP-TR	Yellow/Green	Water Clear	585/565	2.1/2.2	30/25	10	140	09J9578	0.752	0.616
● SML-LX15IC-TR	Red	Water Clear	635	2.0	30	10	140	75K1456	0.479	0.392
● SML-LX15IC-TR	Red	Water Clear	635	2.0	30	10	140	58K2317	0.472	0.394
● SML-LX15YC-TR	Yellow	Water Clear	585	2.1	30	10	140	75K1465	0.479	0.392
● SML-LX15YC-TR	Yellow	Water Clear	585	2.1	30	10	140	58K2328	0.472	0.394
● SML-LX15GC-TR	Green	Water Clear	565	2.2	25	10	140	75K1454	0.479	0.392
● SML-LX15GC-TR	Green	Water Clear	565	2.2	25	10	140	59K0266	0.472	0.394
● SML-LX15GC-RP-TR	Green	Water Clear	565	2.2	25	10	140	58K2316	0.462	0.385
● SML-LX15YC-RP-TR	Yellow	Clear	585	2.1	30	10	140	75K1464	0.479	0.392
● SML-LX15YC-RP-TR	Yellow	Water Clear	585	2.1	30	10	140	58K2327	0.472	0.394
● SML-LX15UPGC-TR	Ultra Pure Green	Water Clear	525	3.5	30	45	140	28M9287	2.720	2.230
● SSF-LXH305ID-TR	Red	Red Diff.	635	2.0	30	40	60	09J9588	0.951	0.779
● SSF-LXH305YD-TR	Yellow	Yellow Diff.	585	2.1	30	30	60	09J9589	0.951	0.779
● SSF-LXH305GD-TR	Green	Green Diff.	565	2.2	25	30	60	28M9290	0.951	0.779

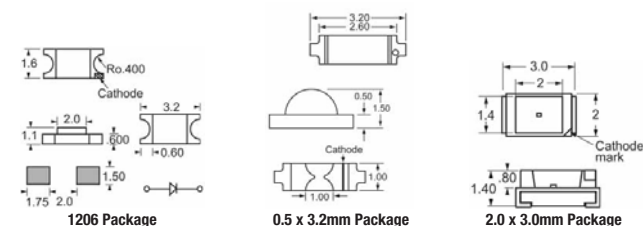
(80591)

InGaN SURFACE MOUNT LEDS



SMT LEDS

Just Added



Lens Color: Water Clear.

1206 PACKAGE

Mfg. Part No.	Emitted Color	Wave-length (nm)	Luminous Intensity (mcd)	View. Angle (°)	Stock No.	Price Each	
						1-9	10-99
● SML-LX1206UPGC-TR	Ultra Pure Green	525	45	140	28M9282	3.980	3.320

0.5 x 3.2mm PACKAGE

SML-LXR85UPGC-TR	Ultra Pure Green	525	45	160	09J9454	4.020	3.350
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2.0 x 3.0mm PACKAGE

● SML-LX23USBC-TR	Ultra Super Blue	470	60	90	09J9457	3.290	2.750
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(80536)

1.8mm Z-BEND

Mfg. Part No.	Color	Viewing Angle (°)	Wavelength (nm)	V _F (V)	Luminous Intensity (mcd)	Stock No.	Price Each
● MC24119	Orange	20	624	2.4	950	02P5922	0.264
● MC24120	Amber	20	595	2.4	900	02P5923	0.264
● MC24121	Yellow	20	593	2.5	900	02P5924	0.264
● MC24122	Green	20	578	2.6	400	02P5925	0.264
● MC24123	Green	20	527	3.8	320	02P5926	1.000
● MC24124	Green	20	509	4	300	02P5927	1.010
● MC24125	Blue	20	465	4	80	02P5928	0.832
● MC24126	White	20	...	4	90	02P5929	1.130

1.8mm GULL WING

● MC24127	High Efficiency Red	20	624	2.4	950	02P5930	0.264
● MC24128	Amber	20	595	2.4	850	02P5931	0.264
● MC24129	Yellow	20	593	2.5	900	02P5932	0.264
● MC24130	Green	20	578	2.6	400	02P5933	0.264
● MC24131	Green	20	527	3.8	320	02P5934	1.010
● MC24132	Green	20	509	4	300	02P5935	1.010
● MC24133	Blue	20	465	4	80	02P5936	0.832
● MC24134	White	20	...	4	90	02P5937	1.110

1.8mm AXIAL

● MC24135	High Efficiency Red	20	624	2.4	900	02P5880	0.264
● MC24136	Amber	20	595	2.4	700	02P5881	0.264
● MC24137	Yellow	20	593	2.5	800	02P5882	0.264
● MC24138	Green	20	578	2.6	300	02P5883	0.264
● MC24139	Green	20	527	3.8	320	02P5884	1.010
● MC24140	Green	20	509	4	300	02P5885	1.010

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CHIP LEDS • POWER SMT EMITTERS

SMT LEDS (CONT.)

1.8mm AXIAL

Mfg. Part No.	Color	Viewing Angle (°)	Wavelength (nm)	VF (V)	Luminous Intensity (mcd)	Stock No.	Price Each
● MC24141	Blue	20	465	4	80	02P5886	0.832
● MC24142	White	20	...	4	90	02P5887	1.130

DOME LED

● MC24143	High Efficiency Red	20	624	2.4	1000	02P5938	0.269
● MC24144	Amber	20	595	2.4	416	02P5939	0.269
● MC24145	Yellow	20	593	2.5	456	02P5940	0.269
● MC24146	Green	20	578	2.6	175	02P5941	0.349
● MC24147	Green	20	527	3.8	900	02P5942	1.080
● MC24148	Green	20	509	4	900	02P5943	1.080
● MC24149	Blue	20	465	4	300	02P5944	0.853
● MC24150	White	20	...	4	300	02P5945	1.260

INNER LENS

● MC24151	Red	40	624	2.4	250	02P5946	0.199
● MC24152	Amber	40	595	2.1	230	02P5947	0.173
● MC24153	Yellow	40	593	2.1	230	02P5948	0.184
● MC24154	Green	40	578	2.2	63	02P5949	0.184
● MC24155	Green	40	527	3.5	450	02P5950	0.966
● MC24156	Green	40	510	3.5	450	02P5951	0.905
● MC24157	Blue	40	465	3.5	160	02P5952	0.943

PLCC

● MC24158	Red	110	624	2.4	80	02P5953	0.527
● MC24159	Green	110	578	2.6	43	02P5954	0.938
● MC24160	Green	110	527	3.8	120	02P5955	1.130
● MC24161	White	110	527	3.8	180	02P5956	1.310

PLCC W/DOME

● MC24162	Red	30	624	2.4	3000	02P5957	0.938
● MC24163	Yellow	30	593	2.5	3000	02P5958	0.938

P-70

● MC24164	Red	70	623	2.4	1300	02P5888	0.329
● MC24165	Red	70	624	2.6	2100	02P5889	0.546
● MC24166	Orange	70	605	2.4	1300	02P5890	0.329
● MC24167	Yellow	70	588	2.4	1300	02P5891	0.329
● MC24168	Yellow	70	588	2.6	2100	02P5892	0.546
● MC24169	Green	70	527	4	2400	02P5893	0.938
● MC24170	Blue	70	468	4	850	02P5894	0.898
● MC24171	White	70	...	4	1050	02P5895	1.050

P-180

● MC24172	Red	180	623	2.4	600	02P5896	0.329
● MC24173	Red	180	624	2.6	1200	02P5897	0.546
● MC24174	Orange	180	605	2.4	650	02P5898	0.329
● MC24175	Yellow	180	588	2.4	600	02P5899	0.329
● MC24176	Yellow	180	588	2.6	1100	02P5900	0.546
● MC24177	Green	180	527	4	1100	02P5901	0.938
● MC24178	Blue	180	468	4	300	02P5902	0.898
● MC24179	White	180	...	4	500	02P5903	1.050

4-PLCC

● MC24180	Blue	120	470	3.8	200	02P5959	1.050
● MC24181	Turquoise	120	510	3.9	800	02P5960	1.200
● MC24182	Green	120	527	3.9	800	02P5961	1.200
● MC24183	Yellow	120	590	2.5	450	02P5962	0.438
● MC24184	Yellow	120	590	2.5	800	02P5963	0.832
● MC24185	Orange	120	606	2.5	400	02P5964	0.527
● MC24186	Red	120	624	2.7	350	02P5965	0.527
● MC24187	Red	120	624	2.7	650	02P5966	0.438
● MC24188	White	120	...	4	400	02P5967	0.832
● MC24189	White	120	...	4	900	02P5968	1.310

(132335)

Expert technical support

Chat online to our team of engineers, or connect to them through your representative.

(148838)

SMD LEDS



Features:

- SMD LEDs with Exceptional Brightness
- Viewing Angle 60°
- Non-Diffused Lens

Applications:

- Excellent for Coupling to Light Pipes and Backlighting
- Automotive: Backlighting in Dashboards and Switches; Telecommunications: Indicator and Backlighting in Telephone and Fax; Audio and Video Equipment; Office Equipment; Flat Backlight for LCDs, Switches and Symbols; General Use



STANDARD SMD LED, PLCC-2

PACKAGE

Mfg. Part No.	Color	Luminous Intensity (mcd)	I _F (mA)	V _F (V)	Wavelength (nm)	Stock No.	Price Each
● TLMB3101-GS08	Blue	4	20	3.9	428	58K2506	0.654
● TLMB3104-GS08	Blue	12.5	20	3.9	428	22H1231	0.639
● TLMB3106-GS08	Blue	20	20	3.9	428	22H1232	0.707
● TLMP3100-GS08	Green	1	30	2	565	58K2514	0.152
● TLMG3102-GS08	Green	20	30	2	625	33C1388	0.135
● TLMP3102-GS08	Green	8	30	2.4	555	33C1398	0.152
● TLMG3101-GS08	Green	20	20	2.2	565	33C1387	0.135
● VLMTG3100-GS08	Green	180	20	3.5	529	35C3204	0.658
● TLM3105-GS08	Red	10	30	1.8	650	33C1382	0.182
● TLMK3100-GS08	Red	10	30	2	643	58K2512	0.127
● TLM3101-GS08	Red	16	30	1.8	650	33C1381	0.170
● TLMK3105-GS08	Red	100	30	2.6	643	33C1394	0.164
● TLMH3101-GS08	Red	12.5	20	2.4	635	33C1391	0.133
● TLM3101-GS18	Red	12.5	30	2	636	22H1234	0.145
● TLME3102-GS08	Yellow	64	20	2	590	33C1384	0.137
● TLMY3102-GS08	Yellow	20	30	2.4	585	33C1403	0.110
● TLMF3101-GS08	Yellow	125	30	2	605	33C1386	0.140

STANDARD SMD LED, 0603 PACKAGE

● TLMB1100-GS08	Blue	5	15	3	428	03P9480	0.709
● TLMP1100-GS08	Green	15	30	3	555	03P9483	0.197
● TLM01000-GS08	Orange	7.5	15	2.6	610	03P9481	0.166
● TLM01100-GS08	Orange	80	30	3	610	03P9482	0.162
● TLMY1100-GS08	Yellow	80	30	3	591	03P9485	0.166

POWER SMD LED, PLCC-2 PACKAGE

● TLMK3300-GS18	Red	500	50	2.1	622	33C1395	0.201
● TLMK3301-GS18	Red	800	50	2.1	622	33C1396	0.184
● TLMY3300-GS08	Yellow	200	50	2.1	617	83H0387	0.200

LOW CURRENT SMD LED, PLCC-2 PACKAGE

● TLMA3100-GS08	Yellow	2.5	7	2.2	585	58K2504	0.123
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HIGH INTENSITY SMD LED, PLCC-2 PACKAGE

LOW PROFILE, MiniSMD (2.3mm x 1.3mm x 1.4mm) PACKAGE

● TLMG2100-GS08	Green	10	30	2.1	568	98H4306	0.139
● TLM02100-GS08	Orange	7.5	30	2.1	605	98H4322	0.160
● TLM32000-GS08	Red	4.5	15	2.2	643	03P9484	0.114

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1W MINI LED EMITTER

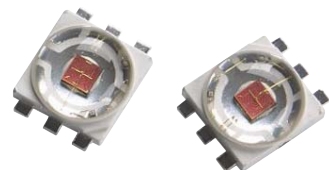
NEW TECHNOLOGY



AVAGO TECHNOLOGIES

Features:

- Small footprint
- Energy efficient
- Direct heat transfer from metal slug to mother board
- Compatible with reflow soldering process
- High current operation
- Long operation life
- Wide viewing angle
- Silicone encapsulation
- Non-ESD sensitive (threshold > 16kV)



Applications:

- Architectural lighting
- Garden lighting
- Decorative lighting
- Sign backlight
- Safety, exit and emergency sign lightings
- Specialty lighting such as task lighting and reading lights
- Retail display
- Commercial lighting
- Accent or marker lightings, strip or step lightings
- Portable lightings, bicycle head lamp, torch lights.
- Pathway, Street, Tunnel lighting

This 1W Mini Power LED Light Source is a high performance energy efficient device which can handle high thermal and high driving current. The low profile package design and ultra small footprint is suitable for a wide variety of applications especially where space and height is a constraint.

Mfg. Part No.	Color	Luminous Flux (lm)	Forward Current (mA)	Viewing Angle (°)	Stock No.	Price Each
● ASMT-JA10-ARS01	Amber	45	350	165	71P7896	2.400
● ASMT-JN11-NST01	Neutral White	65	350	140	71P7899	2.510
● ASMT-JR10-ARS01	Red	45	350	165	71P7900	2.400
● ASMT-JW11-NTT01	Cool White	70	350	140	71P7901	2.750

➔ CONTINUED ➔

POWER SMT EMITTERS

1W MINI LED EMITTER (CONT.)

Mfg. Part No.	Color	Luminous Flux (lm)	Forward Current (mA)	Viewing Angle (°)	Stock No.	Price Each
● ASMT-JY11-NST01	Warm White	60	350	140	71P7902	2.790
● ASMT-JG11-NST01	Green	70	350	165	71P7898	2.960
● ASMT-JB11-NLN01	Blue	15	350	165	71P7897	2.400

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1W POWER LED LIGHT SOURCE

NEW TECHNOLOGY



Avago TECHNOLOGIES



ASMT-Mx00



ASMT-Ax00

Features

- Energy Efficient
- Exposed Pad for Excellent Heat Transfer
- Suitable for SMT Process
- High Current Operation
- Long Operating Life
- Wide Viewing Angle
- Silicone Encapsulation
- InGaN Technology
- 120° Viewing Angle

1W Power LED Light Source is a high performance energy efficient device which can handle high thermal and high driving current. The low profile package and exposed pad design has excellent heat transfer from the package to the motherboard. Compatible with SMT reflow soldering process and manual soldering.

ASMT-Mx00

Applications

- Portable (Flashlight, Bicycle Headlight)
- Reading Light
- Architectural Lighting
- Garden Lighting
- Decorative Lighting

XLAMP® XR-C SERIES LEDs

Just Added



CREE

Features

- Wide Range of Colors: White, Royal Blue, Blue, Green, Amber, Red-Orange and Red
- Maximum Drive Current: up to 700mA
- Low thermal resistance: as low as 12°C/W
- Max junction temperature: 150°C
- Industry-leading JEDEC standard prequalification testing
- Surface Mount Technology
- Electrically Isolated Thermal Path
- Integrated Lens
- Small Footprint — 7.0mm x 9.0mm
- Lumen Maintenance of Greater Than 70% on Average After 50,000 Hours



The XLamp XR-C LED gives lighting designers the flexibility and performance to create the next generation of LED lighting products. Cree XLamp LEDs bring high performance and quality of light to a wide range of lighting applications, including color-changing lighting, portable and personal lighting, outdoor lighting, indoor directional lighting, commercial lighting and emergency-vehicle lighting.

Mfg. Part No.	Color	Luminous Flux (lm) @ 350 mA	Forward Voltage (V)	Forward Current (mA)	Stock No.	Price Each
● XRCBLU-L1-R250-00H01	Blue	13.9	3.5	500	02P7190	4.620
● XRCGRN-L1-R250-00N01	Green	51.7	3.7	500	02P7191	4.540
● XRCRED-L1-R250-00M01	Red	39.8	2.2	700	02P7192	3.990
● XRCWHT-L1-0000-00G01	White	62	3.5	500	08N6674	5.130
● XRCWHT-L1-0000-00701	White	67.2	3.5	500	08N6675	5.320
● XRCWHT-L1-R250-00901	White	80.6	3.5	500	02P7195	4.730
● XRCWHT-L1-0000-003E4	White	45.7	3.5	500	08P1850	3.130
● XRCWHT-L1-0000-005E5	White	56.8	3.5	500	08N6673	5.780
● XRCWHT-L1-0000-004E4	White	51.7	3.5	500	08P1875	3.450
● XRCWHT-L1-R250-006E5	White	62	3.5	500	02P7194	5.350
● XRCWHT-L1-0000-003E7	White	45.7	3.5	500	08P1853	3.280
● XRCWHT-L1-R250-005E7	White	56.8	3.5	500	02P7193	5.190

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CREE X-LAMP MC-E LEDs

Just Added



CREE

Features:

- Industry's first lighting-class multi-chip LED
- Highest XLamp lumen density (lm/mm²)
- Individually addressable LED's
- Lowest XLamp thermal resistance: 3°C/W
- Electrically isolated thermal path

Specifications:

- Viewing Angle = 110°
- Forward Voltage = 3.2 V
- Maximum Drive Current: 700 mA per LED die



Mfg. Part No.	Color	CCT Range		Luminous Flux (lm) @ 350 mA	Stock No.	Price Each
● MCE4WT-A2-0000-000HE7	White	2600 K	3700 K	280	02P7185	19.660
● MCE4WT-A2-0000-000JE5	White	3700 K	5000 K	320	02P7186	19.660
● MCE4WT-A2-0000-000K01	White	5000 K	10 000 K	370	02P7187	19.660
● MCE4WT-A2-0000-000M01	White	5000 K	10 000 K	430	40P1429	22.680

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XLAMP® XP-C & XP-E SERIES LEDs

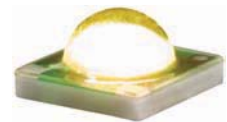
Just Added



CREE

Features

- Available in white (2,600 K to 10,000 K CCT)
- Maximum drive current: up to 500 mA XP-C; up to 700 mA XP-E
- Low thermal resistance
- Wide viewing angle
- Unlimited floor life at ≤ 30°C/85% RH
- Electrically isolated thermal path
- Small package size: 3.45 x 3.45 mm



The XLamp XP-C & XP-E LEDs combine the proven lighting-class performance and reliability of the XLamp XR-E LED in a package with 80% smaller footprint. Cree XLamp LEDs bring high performance and quality of light to a wide range of lighting applications, including color-changing lighting, portable and personal lighting, outdoor lighting, indoor directional lighting, commercial lighting and emergency-vehicle lighting.

XLamp® XP-C SERIES

Mfg. Part No.	Color	Luminous Flux (lm) @ 350 mA	Forward Voltage (V)	Forward Current (mA)	Stock No.	Price Each
● XPCWHT-L1-R250-00A01	White	87.4	3.5	500	02P7188	3.320
● XPCWHT-L1-R250-008E5	White	73.9	3.5	500	03P0748	3.320
● XPCWHT-L1-R250-006E7	White	62	3.5	500	03P1738	4.160

XLamp® XP-E SERIES

Mfg. Part No.	Color	Luminous Flux (lm) @ 350 mA	Forward Voltage (V)	Forward Current (mA)	Stock No.	Price Each
● XPEWHT-L1-R250-00C01	White	100	3.4	700	02P7189	4.710
● XPEWHT-L1-R250-00D01	White	107	3.4	700	40P1430	7.230
● XPEWHT-L1-R250-00E01	White	114	3.4	700	40P1431	9.290

» CONTINUED »

1W MOONSTONE POWER LED



Avago TECHNOLOGIES

Mfg. Part No.	Color	Forward Current (mA)	Luminous Flux (lm)	Viewing Angle (°)	Stock No.	Price Each
● ASMT-MW00-NJK00	Cool White	350	73	110	34M3464	4.180
● ASMT-MWAO-NKK00	Cool White	350	73	110	46M5335	5.780
● ASMT-MY00-NJK00	Warm White	350	73	120	50M3280	4.390
● ASMT-MWAO-NJKW0	Cool White	350	73	110	58M3691	5.570
● ASMT-MWAO-NJKZ0	Cool White	350	73	110	58M3692	5.570
● ASMT-MWAO-NKKZ0	Cool White	350	73	110	58M3693	6.000
● ASMT-MW00-NJKW0	Cool White	350	73	110	58M3697	4.390
● ASMT-MW00-NJKZ0	Cool White	350	73	110	58M3698	4.390
● ASMT-MW00-NKKZ0	Cool White	350	73	110	58M3700	4.610
● ASMT-MY00-NJKW0	Warm White	350	73	120	58M3710	4.610

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POWER SMT EMITTERS

XLAMP® XP-C & XP-E SERIES LEDs (CONT.)

XLamp® XP-E SERIES

Mfg. Part No.	Color	Luminous Flux (lm) @ 350 mA	Forward Voltage (V)	Forward Current (mA)	Stock No.	Price Each 1-9
● XPEWHT-L1-R250-00AE5	White	87.4	3.4	700	03P0749	5.000
● XPEWHT-L1-R250-008E7	White	73.9	3.4	700	03P0750	4.770

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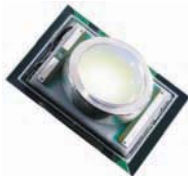
XLAMP® XR 7090 SERIES LEDs

Just Added



Features

- Wide Range of Colors: White, Royal Blue, Blue, Cyan, Green, Amber, Red-Orange and Red
- Full range of drive currents up to 700 mA
- Low operating voltage
- Electrically neutral thermal path
- Integrated lens
- Small footprint — 7.0 mm x 9.0 mm
- ESD > 2000 V
- Lumen Maintenance of greater than 70% on average after 50,000 hours



Cree XLamp LEDs combine the brightness of power LED chips with a rugged package capable of operating in excess of one watt. Cree XLamp LEDs lead the solid-state lighting industry in brightness while providing a reflow-solderable design that is optimized for ease of use and thermal management. Lighting applications featuring XLamp LEDs maximize light output and increase design flexibility, while minimizing environmental impact. All Colors and Cool White may be operated up to 700mA. Soft and Warm White are 350mA operation ONLY. Viewing Angle = 100°

XR 7090 SERIES COLOR LEDs

Mfg. Part No.	Color	Luminous Flux (lm)	Wavelength (nm)		Stock No.	Price Each 1-9
			Min.	Max.		
● XR7090-RO-L1-0001	Amber	67.2	585	595	41M0203	3.850
● XR7090-GR-L1-0001	Green	67.2	520	535	41M0202	3.900
● XR7090-BL-L1-0001	Blue	30.6	465	475	41M0204	4.010
● XR7090-CN-L1-0001	Cyan	51.7	500	510	41M0205	5.810
● XR7090-RD-L1-0001	Red	51.7	620	635	41M0206	3.850
● XR7090-AM-L1-0001	Red Orange	67.2	610	620	41M0208	3.850

XR 7090 ROYAL BLUE LEDs

Mfg. Part No.	Color	Radiant Flux (mW)	Wavelength (nm)		Stock No.	Price Each 1-9
			Min.	Max.		
● XR7090-RY-L1-0001	Royal Blue	350	455	465	41M0209	4.010

XR 7090 WHITE LEDs

Mfg. Part No.*	Color	Luminous Flux (lm)	CCT (K)		Stock No.	Price Each 1-9
			Min.	Max.		
XR7090WT-G1-0001	White	39.8	5000	10000	41M0210	4.010
● XR7090WT-L1-0001	White	39.8	5000	10000	41M0212	5.810
XR7090WT-G1-0003	White	51.7	5000	10000	59M3595	6.750
● XR7090WT-L1-2001	White	30.6	2600	3700	41M0213	5.810

* G1 in part # = Global Spatial pattern, an alternative white product that has higher efficacy with slightly lower color uniformity; L1 in part # = Lambertian Spatial pattern (142255)

XLAMP® XR-E SERIES LEDs

Just Added



Features

- Colors: White, Royal Blue, Blue, Green
- Maximum drive current: up to 1000 mA
- Industry's lowest thermal resistance: 8°C/W
- Max junction temperature: 150°C
- Industry-leading JEDEC standard prequalification testing

- Surface Mount Technology
- Electrically Isolated Thermal Path
- Integrated Lens
- Small Footprint — 7.0mm x 9.0mm
- Lumen Maintenance of Greater Than 70% on Average After 50,000 Hours

The XLamp XR-E LED is leading the LED lighting revolution with its unprecedented lighting-class brightness, efficacy, lifetime and quality of light. These lighting-class features enable the XLamp XR-E LED to replace many traditional light sources and save money with energy-efficient light and long lifetimes. Cree XLamp LEDs bring high performance and quality of light to a wide range of lighting applications, including color-changing lighting, portable and personal lighting, outdoor lighting, indoor directional lighting, commercial lighting and emergency-vehicle lighting.

Mfg. Part No.	Color	Luminous Flux (lm) @ 350 mA	Forward Voltage (V)	Forward Current (mA)	Stock No.	Price Each 1-9
● XREBLU-L1-R250-00K01	Blue	30.6	3.7	1000	02P7196	7.000
● XREGRN-L1-R250-00P01	Green	67.2	3.5	700	02P7197	5.300
● XREROY-L1-0000-00801	Royal Blue	300	3.7	1000	08N6678	7.750
XREWHT-L1-0000-00602	White	67.2	3.7	1000	41M0199	5.310
● XREWHT-L1-0000-X0902	White	80.4	3.7	1000	41M0198	10.760
XREWHT-L1-0000-00702	White	87.4	3.7	1000	41M0201	5.490
● XREWHT-L1-R250-00C01	White	100	3.7	1000	02P7198	7.190
● XREWHT-L1-0000-00D01	White	107	3.7	1000	08N6681	11.020
● XREWHT-L1-0000-00E04	White	73.9	3.5	500	08P2112	5.460
● XREWHT-L1-R250-009E5	White	80.6	3.5	700	02P7200	6.390
● XREWHT-L1-0000-00AE4	White	87.4	3.5	700	08P1987	6.010

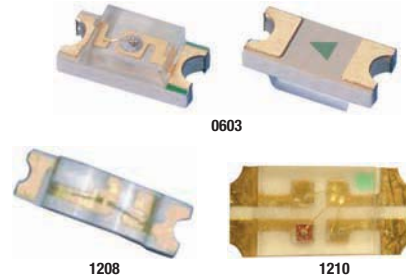
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XLAMP® XR-E SERIES LEDs (CONT.)

Mfg. Part No.	Color	Luminous Flux (lm) @ 350 mA	Forward Voltage (V)	Forward Current (mA)	Stock No.	Price Each 1-9
● XREWHT-L1-0000-008E7	White	73.9	3.5	500	08P2115	5.970
● XREWHT-L1-R250-008E7	White	73.9	3.5	700	02P7199	6.450

(142256)

598 SERIES MICRO LED® SMD LEDs



The 598 Series of microLED® SMD LEDs is comprised of 10 different package styles incorporating the most popular color combinations. Single color, bi-color, tri-color and right angle package styles are available. Common wavelengths are available in various package styles to maintain color consistency.

All 598 Series LEDs are RoHS compliant and many colors offered conform to the ANSI/VITA 40 standard regarding status indication. The 598 Series is available in both small quantities and tape and reel.

0603 CASE SIZE, AlInGaP MATERIAL, WATER CLEAR LENS STYLE, 140° VIEWING ANGLE

Mfg. Part No.	Color	Lum. Int. (mcd)	Wavelength (nm)	V _f Typ. (V)	Tape Cut		Tape & Reel	
					Stock No.	Price Each	Stock No.	Price Each
● 5988010102F	Red	80	642	2.2	22M3003	0.314	22M3004	0.047
● 5988020102F	Red/Orange	200	630	2	22M3005	0.314	22M3006	0.052
● 5988030102F	Orange	150	610	2	22M3007	0.440	22M3008	0.079
● 5988040102F	Yellow	160	595	2	22M3009	0.346	22M3010	0.052
● 5988050102F	Yellow	160	590	2	22M3011	0.346	22M3012	0.052
● 5988060102F	Yellow/Green	60	575	2	22M3013	0.314	22M3014	0.047
● 5988070102F	Green	40	570	2	22M3015	0.314	22M3016	0.047

0603 CASE SIZE, InGaN MATERIAL, WATER CLEAR LENS STYLE, 140° VIEWING ANGLE

● 59880810102F	Green	400	525	3.2	22M3019	0.754	22M3020	0.227
● 5988091102F	Blue	160	475	3.2	22M3023	0.597	22M3024	0.191

0606 CASE SIZE, Bi Color, AlInGaP MATERIAL, WATER CLEAR LENS STYLE, 140° VIEWING ANGLE

● 5988410202F	Red/Green	80	645/570	2	22M3087	0.471	22M3088	0.107
● 5988420207F	Red/Orange	150	630	2	...	...	22M3090	0.278
● 5988421202F	Red/Orange/Green	120	630/530	2	22M3091	0.848	22M3092	0.278
● 5988430202F	Orange/Green	150	610/570	2	22M3093	0.471	22M3094	0.107
● 5988440202F	Yellow/Green	150	592/575	2	22M3095	0.471	22M3096	0.107
● 5988450202F	Yellow/Green	150	592/530	2	22M3097	0.848	22M3098	0.278
● 5988460202F	Yellow/Red	150	592/645	2	22M3099	0.471	22M3100	0.107
● 5988470202F	Red/Yellow-Green	60	639/575	2	22M3101	0.471	22M3102	0.107

0606 CASE SIZE, Tri Color, AlInGaP MATERIAL, WATER CLEAR LENS STYLE, 140° VIEWING ANGLE

● 5988710302F	Red, Green, Blue	80	645/530/475	2	22M3140	2.550	22M3141	1.050
● 5988720302F	Red/Orange, Green, Blue	150	645/530/475	2.2	22M3142	2.550	22M3143	1.050
● 5988740302F	Yellow, Green, Blue	150	595/530/475	2.2	22M3148	2.550	22M3149	1.050

0805 CASE SIZE, AlInGaP MATERIAL, WATER CLEAR LENS STYLE, 140° VIEWING ANGLE

● 5988110102F	Red	80	642	2.2	22M3025	0.314	22M3026	0.044
● 5988120102F	Red/Orange	200	630	2	22M3027	0.314	22M3028	0.047
● 5988130102F	Orange	150	610	2	22M3029	0.440	22M3030	0.079
● 5988140102F	Yellow	160	595	2	22M3031	0.346	22M3032	0.047
● 5988150102F	Yellow	160	590	2	22M3033	0.346	22M3034	0.047
● 5988160102F	Yellow/green	60	575	2	22M3035	0.314	22M3036	0.044
● 5988170102F	Green	40	570	2	22M3037	0.314	22M3038	0.044

0805 CASE SIZE, InGaN MATERIAL, WATER CLEAR LENS STYLE, 140° VIEWING ANGLE

● 5988181102F	Green	400	525	3.2	22M3041	0.754	22M3042	0.227
● 5988191102F	Blue	160	475	3.2	22M3045	0.566	22M3046	0.154

1206 CASE SIZE, AlInGaP MATERIAL, WATER CLEAR LENS STYLE, 140° VIEWING ANGLE

● 5988210102F	Red	80	640	2	22M3047	0.346	22M3048	0.048
● 5988220102F	Red/orange	200	630	2	22M3049	0.377	22M3050	0.051
● 5988230102F	Orange	150	610	2	22M3051	0.440	22M3052	0.079
● 5988240102F	Yellow	160	595	2	22M3053	0.346	22M3054	0.048
● 5988250102F	Yellow	160	590	2	22M3055	0.346	22M3056	0.048

➔ CONTINUED ➔

POWER SMT EMITTERS

598 SERIES MICRO LED® SMD LEDs (CONT.)

1206 CASE SIZE, AlInGaP MATERIAL, WATER CLEAR LENS STYLE, 140° VIEWING ANGLE

Mfg. Part No.	Color	Lum. Int. (mcd)	Wavelength (nm)	V _F Typ. (V)	Tape Cut		Tape & Reel	
					Stock No.	Price Each	Stock No.	Price Each
5988260102F	Yellowgreen	60	575	2	22M3057	0.346	22M3058	0.048
5988270102F	Green	40	570	2	22M3059	0.346	22M3060	0.048

1206 CASE SIZE, InGaP MATERIAL, WATER CLEAR LENS STYLE, 140° VIEWING ANGLE

5988281102F	Green	400	525	3.2	22M3063	0.754	22M3064	0.227
5988291102F	Blue	160	475	3.2	22M3067	0.566	22M3068	0.154

1208 CASE SIZE, AlInGaP MATERIAL, WATER CLEAR LENS STYLE, 160° VIEWING ANGLE

5988310102F	Red	70	640	2	22M3069	0.377	22M3070	0.058
5988320102F	Red/orange	150	630	2	22M3071	0.377	22M3072	0.065
5988330102F	Orange	150	610	2	22M3073	0.440	22M3074	0.079
5988340102F	Yellow	160	595	2	22M3075	0.377	22M3076	0.065
5988350102F	Yellow	160	590	2	22M3077	0.377	22M3078	0.065
5988360102F	Yellowgreen	60	575	2	22M3079	0.377	22M3080	0.058
5988370102F	Green	50	570	2	22M3081	0.377	22M3082	0.058

1208 CASE SIZE, InGaP MATERIAL, WATER CLEAR LENS STYLE, 160° VIEWING ANGLE

5988380102F	Green	300	525	3.2	22M3083	0.754	22M3084	0.227
5988391102F	Blue	160	475	3.2	22M3085	0.566	22M3086	0.154

1208 CASE SIZE, Bi Color, AlInGaP MATERIAL, WATER CLEAR LENS STYLE, 160° VIEWING ANGLE

5988510202F	Red/Green	80	645/570	2	22M3105	0.471	22M3106	0.107
5988520202F	Red/Orange/Green	150	630/570	2	22M3107	0.471	22M3108	0.107
5988540202F	Yellow/Green	150	592/575	2	22M3111	0.471	22M3112	0.107
5988560202F	Yellow/Red	150	592/645	2.2	22M3115	0.471	22M3116	0.107

1208 CASE SIZE, Tri Color, AlInGaP MATERIAL, WATER CLEAR LENS STYLE, 160° VIEWING ANGLE

5988810302F	Red, Green, Blue	80	645/530/475	2.2	22M3150	2.550	22M3151	1.050
5988820302F	Red/orange, Green, Blue	150	645/530/475	2	22M3152	2.550	22M3153	1.050
5988840302F	Yellow, Green, Blue	150	595/530/475	2.2	22M3158	2.550	22M3159	1.050

1210 CASE SIZE, AlInGaP MATERIAL, WATER CLEAR LENS STYLE, 140° VIEWING ANGLE

5988610202F	Red/Green	80	645/570	2	22M3121	0.471	22M3122	0.107
5988620207F	Red/Orange	120	630	2	...	...	22M3126	0.278
5988621202F	Red/Orange/Green	120	630/530	2	22M3127	0.848	22M3128	0.278
5988640202F	Yellow/Green	150	592/645	2	22M3131	0.471	22M3132	0.107
5988660202F	Yellow/Red	150	592/645	2.2	22M3134	0.471	22M3135	0.107
5988670202F	Red	80	639	2.2	22M3136	0.471	22M3137	0.107

1210 CASE SIZE, Tri Color, AlInGaP MATERIAL, WATER CLEAR LENS STYLE, 140° VIEWING ANGLE

5988610302F	Red	80	645	2	22M3123	2.550	22M3124	1.050
5988920302F	Red/Orange	150	630	2	22M3160	2.550	22M3161	1.050
5988940302F	Yellow, Green, Blue	150	592/530/475	2.2 / 3.2 / 3.2	22M3164	2.550	22M3165	1.050

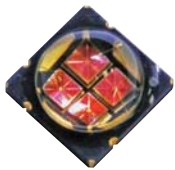
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5W HIGH LUMINOUS EFFICACY LED EMITTERS

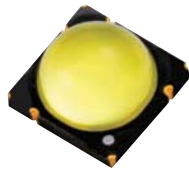


LedEngin, Inc.

NEW TECHNOLOGY



Color LEDs



White LEDs



MCPCB

Features:

- Ultra-small foot print – 4.4mm x 4.4mm x 3.1mm
- Surface mount ceramic package with integrated glass lens
- Very high Luminous Flux density
- New industry standard for Lumen Maintenance (>90% at 100,000 Hours)
- JEDEC Level 2 for Moisture Sensitivity Level
- Autoclave compliant (JEDEC JESD22-A102-C)
- Lead (Pb) free and RoHS compliant
- Reflow solderable (up to 6 cycles)
- Available on Standard or Miniature MCPCB

Applications:

- Indoor and outdoor Architectural Lighting
- Stage and Entertainment Lighting
- Backlighting
- Traffic and signal Lights
- Full Color Displays
- Projectors
- Emergency Lighting
- Medical
- Automotive

LED EMITTERS

Mfg. Part No.	Color	V _F (V)	I _F (mA)	Wavelength (nm)	Lum. Flux (lm)	Package	Stock No.	Price
5988610302F	Red	80	645	2	22M3123	2.550	22M3124	1.050
5988920302F	Red/Orange	150	630	2	22M3160	2.550	22M3161	1.050
5988940302F	Yellow, Green, Blue	150	592/530/475	2.2 / 3.2 / 3.2	22M3164	2.550	22M3165	1.050

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5W HIGH LUMINOUS EFFICACY LED EMITTERS (CONT.)

Mfg. Part No.	Color	V _F (V)	I _F (mA)	Wavelength (nm)	Lum. Flux (lm)	Package	Stock No.	Price
5988610302F	Red	80	645	2	22M3123	2.550	22M3124	1.050
5988920302F	Red/Orange	150	630	2	22M3160	2.550	22M3161	1.050
5988940302F	Yellow, Green, Blue	150	592/530/475	2.2 / 3.2 / 3.2	22M3164	2.550	22M3165	1.050

WHITE LED EMITTERS

Mfg. Part No.	Color	V _F (V)	I _F (mA)	Wavelength (nm)	Lum. Flux (lm)	Package	Stock No.	Price
5988610302F	Red	80	645	2	22M3123	2.550	22M3124	1.050
5988920302F	Red/Orange	150	630	2	22M3160	2.550	22M3161	1.050
5988940302F	Yellow, Green, Blue	150	592/530/475	2.2 / 3.2 / 3.2	22M3164	2.550	22M3165	1.050

DENTAL BLUE, DEEP RED, AND UV LED EMITTERS

Mfg. Part No.	Color	V _F (V)	I _F (mA)	Wavelength (nm)	Rad. Flux (mW)	Package	Stock No.	Price
5988610302F	Red	80	645	2	22M3123	2.550	22M3124	1.050
5988920302F	Red/Orange	150	630	2	22M3160	2.550	22M3161	1.050
5988940302F	Yellow, Green, Blue	150	592/530/475	2.2 / 3.2 / 3.2	22M3164	2.550	22M3165	1.050

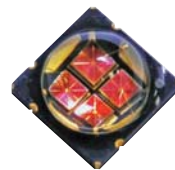
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10W HIGH LUMINOUS EFFICACY LED EMITTERS

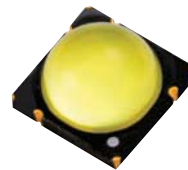


LedEngin, Inc.

NEW TECHNOLOGY



Color LEDs



White LEDs



MCPCB

Features:

- Ultra-small foot print – 7.0mm x 7.0mm x 4.1mm
- Very low Thermal Resistance (3°C/W)
- Individually addressable die
- Very high Luminous Flux density
- New industry standard for Lumen Maintenance (>90% at 100,000 Hours)
- JEDEC Level 2 for Moisture Sensitivity Level
- Autoclave compliant (JEDEC JESD22-A102-C)
- Lead (Pb) free and RoHS compliant
- Reflow solderable (up to 6 cycles)
- Available on Standard MCPCB and Serially Connected MCPCB

Applications:

- Emergency vehicle lighting
- Strobe and warning lights
- Marine and buoy lighting
- Aviation and obstruction lighting
- Roadway beacons and traffic signaling
- Architectural lighting
- Stage and studio lighting
- Landscape lighting
- Automotive signal and marker lights

LED EMITTERS

Mfg. Part No.	Color	V _F (V)	I _F (mA)	Wavelength (nm)	Luminous Flux (lm)	Package	Stock No.	Price
5988610302F	Red	80	645	2	22M3123	2.550	22M3124	1.050
5988920302F	Red/Orange	150	630	2	22M3160	2.550	22M3161	1.050
5988940302F	Yellow, Green, Blue	150	592/530/475	2.2 / 3.2 / 3.2	22M3164	2.550	22M3165	1.050

▶ CONTINUED ▶

POWER SMT EMITTERS

10W HIGH LUMINOUS EFFICACY LED EMITTERS (CONT.)

Mfg. Part No.	Color	V _F (V)	I _F (mA)	Wavelength (nm)	Luminous Flux (lm)	Package	Stock No.	Price
● LZ4-00MC10	Red Green Blue	2.6 3.8 3.7	1000	625 520 460	115 280 40	SMT	16P3148	29.340
● LZ4-20MC10	Red Green Blue	2.6 3.8 3.7	1000	625 520 460	115 140 40	MCPCB	16P3159	32.600

WHITE LED EMITTERS

Mfg. Part No.	Color	V _F (V)	I _F (mA)	Corr. Color Temp. (K)	Luminous Flux (lm)	Package	Stock No.	Price
● LZ4-00CW10	White	14.6	1000	5500	700	SMT	16P3142	29.340
● LZ4-40CW10	White	14.6	1000	5500	700	MCPCB*	16P3162	32.600
● LZ4-00NW10	White	14.6	1000	4100	570	SMT	16P3149	29.340
● LZ4-40NW10	White	14.6	1000	4100	570	MCPCB*	16P3165	32.600
● LZ4-00WW10	Warm White	14.6	1000	3100	360	SMT	16P3156	29.340
● LZ4-40WW10	Warm White	14.6	1000	3100	360	MCPCB*	16P3169	32.600

DENTAL BLUE, DEEP RED, AND UV LED EMITTERS

Mfg. Part No.	Color	V _F (V)	I _F (mA)	Wavelength (nm)	Radiant Flux (W)	Package	Stock No.	Price
● LZ4-00R210	Red	11.4	1000	660	2.5	SMT	16P3153	27.710
● LZ4-40R210	Red	11.4	1000	660	2.5	MCPCB*	16P3167	30.160
● LZ4-00DB10	Dental Blue	14.6	1000	460	3.2	SMT	16P3144	97.800
● LZ4-40DB10	Dental Blue	14.6	1000	460	3.2	MCPCB*	16P3163	101.060
● LZ4-00UA10	UV	16.9	1000	405	2.7	SMT	16P3154	97.800
● LZ4-40UA10	UV	16.9	1000	405	2.7	MCPCB*	16P3168	109.210

* Serially Connected MCPCB (136290)

15W HIGH LUMINOUS EFFICACY POWER LedFlex™ EMITTERS



LedEngin, Inc.

NEW TECHNOLOGY

Features:

- Unique package design with ceramic substrate, integrated glass lens and Flex PCB
- New industry standard for Lumen Maintenance (>90% at 100,000 Hours)
- Extremely low Thermal Resistance (2.6°C/W)
- Isolated thermal path - electrical connections on Flex PCB
- Mount directly to heatsink - MCPCB not required
- Industry's highest Luminous Flux density
- High ESD protection (>8 kV HBM)
- JEDEC Level 2 Moisture Sensitivity Level
- Lead (Pb) free and RoHS compliant

Applications:

- Emergency vehicle lighting
- Strobe and warning lights
- Marine and buoy lighting
- Aviation and obstruction lighting
- Roadway beacons and traffic signaling
- Architectural lighting
- Stage and studio lighting
- Landscape lighting
- Automotive signal and marker lights

LED EMITTERS

Mfg. Part No.	Color	V _F (V)	I _F (mA)	Wavelength (nm)	Luminous Flux (lm)	Stock No.	Price
● LZ4-00A115	Amber	12	1500	590	265	16P3139	36.340
● LZ4-00B215	Blue	15.1	1500	465	205	16P3141	44.240
● LZ4-00G115	Green	15.4	1500	525	661	16P3146	52.140
● LZ4-00R115	Red	11.4	1500	628	377	16P3152	36.340

WHITE LED EMITTERS

Mfg. Part No.	Color	V _F (V)	I _F (mA)	Corr. Color Temp. (K)	Luminous Flux (lm)	Stock No.	Price
● LZ4-00CW15	White	15.1	1500	6200	703	16P3143	36.340
● LZ4-00NW15	White	15.1	1500	4100	480	16P3150	36.340
● LZ4-00WW15	Warm White	15.1	1500	3100	500	16P3157	36.340

UV LED EMITTERS

Mfg. Part No.	Color	V _F (V)	I _F (mA)	Wavelength (nm)	Radiant Flux (W)	Stock No.	Price
● LZ4-00UA15	UV	16.9	1500		3	16P3155	102.700

(136291)

Huge Expanded Selection of Semiconductors

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1WATT HIGH-POWER AstraLEDs®

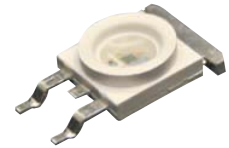


Features:

- State-of-the-art, high brightness chip technology
- Easy-to-solder leads in a Tin finish
- SMT package eliminates thru-hole soldering
- Very long operational life

Applications:

- LCD backlighting
- Illuminating signs/artwork
- Decorative lighting
- Warning and alarm lights



Mfg. Part No.	Emitted Color	Wave-length (nm)	V _F Typ. (V)	Axial Intensity (lm)	Viewing Angle (°)	Stock No.	Price Each
● SML-LX1610SIC	Red	625	2.1	22	70	22M4349	4.040
● SML-LX1610SIC/A	Red	625	2.1	22	110	22M4350	4.040
● SML-LX1610SYC	Yellow	590	2.1	22	70	22M4351	4.040
● SML-LX1610SYC/A	Yellow	590	2.1	22	110	22M4352	4.040
● SML-LX1610UPGC	Green	525	3.5	25	70	22M4353	7.060
● SML-LX1610UPGC/A	Green	525	3.5	25	110	22M4354	7.060
● SML-LX1610USBC	Blue	470	3.5	5	70	22M4355	7.060
● SML-LX1610USBC/A	Blue	470	3.5	5	110	22M4356	7.060
● SML-LX1610UWC	White	...	3.5	30	70	22M4357	7.060
● SML-LX1610UWC/A	White	...	3.5	30	110	22M4358	7.060
SML-LX1610RGBW/A	Red/ Green/ Blue	626/ 525/ 470	2.1/ 3.5/ 3.5	25/ 25/ 8	110	47P0810	6.870

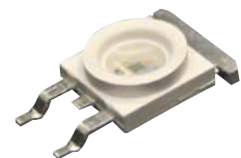
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HIGH-BRIGHTNESS LEDs



Features:

- State-of-the-Art, High Brightness Chip Technology
- Choice of Colors and Lens Finishes
- Maintenance Free Long Life



SML-LXL1209

SuperFLUX

Mfg. Part No.	Emitted Color	Wave-length (nm)	Luminous Intensity (mcd)	View. Angle (°)	Stock No.	Price
● SML-LX1110SOC-ATR	Orange	620	25000	90	54M8244	10.830
● SML-LX1110SOC-BTR	Orange	620	20000	120	54M8245	8.510
● SML-LX1110SYC-ATR	Yellow	590	11000	90	54M8246	10.830
● SML-LX1110SYC-BTR	Yellow	590	8500	120	54M8247	10.830
● SML-LX1110UPGC-ATR	Green	525	10000	90	54M8248	44.800
● SML-LX1110UPGC-BTR	Green	525	7500	120	54M8249	44.800
● SML-LX1110USBC-ATR	Blue	470	2800	90	54M8250	38.390
● SML-LX1110USBC-BTR	Blue	470	2500	120	54M8251	38.390

DOME LENS

● SML-LXL1209SIC-TR	Red	636	600	50	54M8239	0.317
● SML-LXL1209SOC-TR	Orange	610	1500	50	54M8240	0.317
● SML-LXL1209SYC-TR	Yellow	590	400	50	54M8241	0.317
● SML-LXL1209UPGC-TR	Green	525	1000	30	54M8242	2.110
● SML-LXL1209USBC-TR	Blue	470	250	50	54M8243	2.110

(100552)

LUXEON® K2



Features:

- Highest operating junction temperature available, 185°C
- Industry leading lumen performance, > 140 - 175 lumens in 6500K white
- Highest Drive Currents - 1500 mA
- Lowest Thermal Resistance - 9°C/W
- Industry Best Moisture Sensitivity level - JEDEC 2a 4 week floor life without reconditioning
- Lead free reflow solder JEDEC 020c compatible
- Autoclave compliant - JESD22 A-102
- Industry Best Lumen Maintenance - 50,000 hours life at 1000 mA with 70% lumen maintenance

LUXEON® K2 has higher standards for light output, thermal management, and manufacturability. With industry leading lumens per package and power handling capabilities, LUXEON K2 enables you to create never before possible lighting applications.

Mfg. Part No.	Color	V _F (V)	Luminous Flux (lm)	I _F (mA)	Stock No.	Price Each
● LXX2-PB12-K00	Blue	3.42	16	1500	05M0598	4.700
● LXX2-PB14-N00	Blue	3.42	35	1500	05M0599	4.700
● LXX2-PD12-R00	Red	2.95	75	700	05M0601	4.240
● LXX2-PE12-Q00	Cyan	3.42	60	1500	05M0602	4.700
● LXX2-PE14-T00	Cyan	3.42	105	1500	05M0603	4.700

➔ CONTINUED ➔

POWER SMT EMITTERS

LUXEON® K2 (CONT.)

Mfg. Part No.	Color	V _F (V)	Luminous Flux (lm)	I _F (mA)	Stock No.	Price Each
● LXK2-PH12-S00	Red Orange	2.95	100	700	05M0605	4.240
● LXK2-PM12-R00	Green	3.42	75	1500	05M0608	4.700
● LXK2-PM14-U00	Green	3.42	130	1500	05M0609	4.700
● LXK2-PR12-L00	Royal Blue	3.42	200 mW	1500	05M0610	4.700
● LXK2-PR14-Q00	Royal Blue	3.42	475 mW	1500	05M0611	4.700
● LXK2-PW12-R00	White	3.42	75	700	05M0612	5.070
● LXK2-PW14-T00	White	3.42	110	700	05M0613	4.480
● LXK2-PW14-U00	White	3.42	130	700	05M0614	5.070

(105923)

LUXEON® REBEL



Features:

- High efficacy and lumens per package
- Smallest highpower LED
- Leading lumen performance
- Highest reliability and lumen maintenance
- 1000 mA maximum drive current
- Best moisture sensitivity
- Electrically isolated thermal pad

LUXEON Rebel is a compact, surface mount high power LED with higher standards for light output, flux density and manufacturability. With industry leading flux density, lumens per package, and power handling capabilities LUXEON Rebel enables you to create never before possible lighting applications.

Mfg. Part No.	Color	V _F (V)	Luminous Flux (lm)	I _F (mA)	Stock No.	Price Each
● LXML-PB01-0008	Blue	3.15	19	1000	53M8182	2.630
● LXML-PB01-0010	Blue	3.15	22	1000	53M8183	3.230
● LXML-PB01-0013	Blue	3.15	27	1000	53M8184	3.710
● LXML-PB01-0018	Blue	3.15	38	1000	53M8185	4.070
● LXML-PB01-0023	Blue	3.15	48	1000	53M8186	4.660
● LXML-PD01-0030	Red	2.9	65	700	53M8187	2.090
● LXML-PD01-0040	Red	2.9	85	700	53M8188	2.390
● LXML-PE01-0030	Cyan	3.15	65	350	08M2480	2.630
● LXML-PE01-0040	Cyan	3.15	80	1000	53M8189	3.230
● LXML-PE01-0060	Cyan	3.15	110	1000	53M8190	3.710
● LXML-PE01-0070	Cyan	3.15	130	1000	53M8191	4.070
● LXML-PH01-0040	Red Orange	2.9	85	700	53M8192	2.090
● LXML-PH01-0050	Red Orange	2.9	100	700	53M8193	2.390
● LXML-PL01-0030	Amber	2.9	65	700	53M8195	2.390
● LXML-PM01-0040	Green	3.15	80	1000	53M8196	2.630
● LXML-PM01-0050	Green	3.15	95	1000	53M8197	3.230
● LXML-PM01-0080	Green	3.15	145	1000	53M8199	4.070
● LXML-PR01-0225	Royal Blue	3.15	225 mW	1000	53M8201	3.230
● LXML-PR01-0275	Royal Blue	3.15	275 mW	1000	53M8202	2.880
● LXML-PWC1-0040	White	3.15	80	1000	53M8203	2.630
● LXML-PWC1-0050	White	3.15	95	1000	53M8204	3.230
● LXML-PWC1-0070	White	3.15	130	1000	53M8205	3.540
● LXML-PWC1-0080	White	3.15	145	1000	53M8206	4.070
● LXML-PWC1-0090	White	3.15	160	350	08N2481	5.380
● LXML-PWC1-0100	White	3.15	180	350	08N2482	7.170
● LXML-PWN1-0040	White	3.15	80	1000	53M8207	2.630
● LXML-PWN1-0050	White	3.15	95	1000	53M8208	3.230
● LXML-PWN1-0070	White	3.15	130	1000	53M8209	3.540
● LXML-PWN1-0080	White	3.15	145	1000	53M8210	4.070
● LXML-PWW1-0040	Warm White	3.15	80	1000	53M8211	3.230
● LXML-PWW1-0050	Warm White	3.15	95	1000	53M8212	4.070
● LXML-PWW1-0060	Warm White	3.15	110	1000	53M8213	4.660

(105923)

New products added weekly

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(148886)

LUXEON STAR EMITTERS



Features:

- Highest flux per LED family in the world
- Very long operating life (up to 100k hours)
- More energy efficient than incandescent and most halogen lamps
- Low voltage DC operated
- Cool beam, safe to the touch
- Instant light (less than 100ns)
- Fully dimmable
- No UV
- Superior ESD protection

Just Added



A range of modules incorporate the Luxeon emitters on a preformed heatsinking PCB base. This makes the devices easier to use, the assemblies feature suitable mounting points and electrical connections. The range includes the "batwing", "lambertian" and "side" emitting variants together with a version carrying a collimating optics lens.

1 WATT STAR — SIDE EMITTING RADIATION PATTERN

Mfg. Part No.	Color	Lumens	Continuous Current Max. (mA)	Forward Voltage (V)	Wave-length	View-ing Angle (°)	Stock No.	Price Each
● LXHL-FB1C	Blue	14.5 lm	350	3.99	470 nm	110	93K5795	5.720
● LXHL-FD1C	Red	40 lm	385	3.51	625 nm	110	93K5798	4.860
● LXHL-FM1C	Green	48 lm	350	3.99	530 nm	110	93K5802	5.720
● LXHL-FW1C	White	40.5 lm	350	3.99	...	...	93K5807	6.830

1 WATT STAR — BATWING RADIATION PATTERN

● LXHL-MB1C	Blue	16 lm	350	3.99	470 nm	110	93K5822	5.720
● LXHL-MD1C	Red	27 lm	385	3.27	625 nm	110	93K5826	3.640
● LXHL-ME1C	Cyan	45 lm	350	3.99	505 nm	110	93K5829	5.720
● LXHL-MM1C	Green	53 lm	350	3.99	530 nm	110	93K5838	5.720

1 WATT STAR — LAMBERTIAN RADIATION PATTERN

● LXHL-MB1D	Blue	16 lm	350	3.99	470 nm	140	93K5823	5.720
● LXHL-ML1D	Amber	42 lm	385	3.51	590 nm	110	93K5835	4.860
● LXHL-MM1D	Green	53 lm	350	3.99	530 nm	140	93K5839	5.720
● LXHL-MW1D	White	45 lm	350	3.99	...	140	93K5845	6.830
● LXHL-MRRD	Royal Blue	145 mW	350	3.42	455 nm	140	97K4010	10.600

1 WATT STAR WITH CONNECTOR — LAMBERTIAN RADIATION PATTERN

● LXHL-MD1B	Red	44 lm	385	3.51	625 nm	110	93K5825	4.860
● LXHL-MW1B	White	18 lm	350	3.99	...	140	93K5844	6.830

1 WATT STAR WITH OPTIC — BATWING RADIATION PATTERN

● LXHL-NB98	Blue	5 lm	350	3.99	470 nm	110	93K5846	7.670
● LXHL-ND98	Red	25 lm	385	3.27	625 nm	110	93K5847	5.600
● LXHL-NM98	Green	25 lm	350	3.99	530 nm	110	93K5850	7.930
● LXHL-NR98	Royal Blue	220 mW	350	3.99	455 nm	110	93K5851	7.670

3 WATTS STAR — LAMBERTIAN RADIATION PATTERN

Mfg. Part No.	Color	Lumens	Continuous Current Max. (mA)	Forward Voltage (V)	Wave-length	View-ing Angle (°)	Stock No.	Price Each
● LXHL-LB3C	Blue	30 lm	1000	4.47	470 nm	140	93K5810	6.590
● LXHL-LB3C	Blue	30 lm	1000	4.47	470 nm	140	93K5810	6.590
● LXHL-LB3C	Blue	30 lm	1000	4.47	470 nm	140	93K5810	6.590
● LXHL-LB3C	Blue	30 lm	1000	4.47	470 nm	140	93K5810	6.590
● LXHL-LB3C	Blue	30 lm	1000	4.47	470 nm	140	93K5810	6.590
● LXHL-LB3C	Blue	30 lm	1000	4.47	470 nm	140	93K5810	6.590
● LXHL-LB3C	Blue	30 lm	1000	4.47	470 nm	140	93K5810	6.590
● LXHL-LB3C	Blue	30 lm	1000	4.47	470 nm	140	93K5810	6.590
● LXHL-LB3C	Blue	30 lm	1000	4.47	470 nm	140	93K5810	6.590
● LXHL-LB3C	Blue	30 lm	1000	4.47	470 nm	140	93K5810	6.590

3 WATTS STAR — SIDE EMITTING RADIATION PATTERN

● LXHL-FW3C	White	70 lm	1000	3.90	...	85	93K5808	7.690
● LXHL-FD3C	Red	125 lm	1540	2.95	...	85	97K3987	14.720
● LXHL-FM3C	Green	70 lm	1000	3.90	530 nm	85	93K5803	6.590

5 WATTS STAR — LAMBERTIAN RADIATION PATTERN

Mfg. Part No.	Color	Lumens	Continuous Current Max. (mA)	Forward Voltage (V)	Wave-length	View-ing Angle (°)	Stock No.	Price Each
● LXHL-LB5C	Blue	48 lm	700	8.31	470 nm	150	93K5811	22.680
● LXHL-LE5C	Cyan	160 lm	700	8.31	505 nm	150	93K5813	22.680
● LXHL-LM5C	Green	160 lm	700	8.31	530 nm	150	93K5815	22.680
● LXHL-LR5C	Royal Blue	700 mW	700	8.31	455 nm	150	93K5817	22.680
● LXHL-LW6C	White	120 lm	700	8.31	...	120	93K5819	27.080

LUXEON DENTAL — LAMBERTIAN RADIATION PATTERN

Mfg. Part No.	Color	Continuous Current Max. (mA)	Forward Voltage (V)	Wave-length	View-ing Angle (°)	Stock No.	Price Each
● LXHL-LRD5	Dental Blue	700	6.84	460 nm	150	97K3993	77.640

LUXEON FLOOD — BAT WING RADIATION PATTERN

Mfg. Part No.	Color	Continuous Current Max. (mA)	Forward Voltage (V)	Wave-length	View-ing Angle (°)	Stock No.	Price Each
● LXHL-MWJE	White	1050	21	5500 K	110	97K4011	157.560

(88672)

POWER SMT EMITTERS

EMITTERS

Just Added

LIGHT BY
LUXEON

Features:

- Highest flux per LED family in the world
- Very long operating life (up to 100k hours)
- More energy efficient than incandescent and most halogen lamps
- Low voltage DC operated
- Cool beam, safe to the touch
- Instant light (less than 100ns)
- Fully dimmable
- No UV
- Superior ESD protection

The Luxeon Emitter is a "building block" LED that offers a complete spectrum of colors in a package that is less than 12.7mm in diameter and 6.3mm high. Luxeon Emitters give you total design freedom by allowing you to design from the ground up with the smallest possible form factor enabling a fully integrated lighting solution.

1 WATT — BATWING RADIATION PATTERN

Mfg. Part No.	Color	Luminous Flux Typ. (lm)	Continuous Current Max. (mA)	Forward Voltage (V)	Wave-length/ Color Temp.	Stock No.	Price Each 1-24
● LXHL-PB01	Blue	16	350	3.42	470 nm	93K5853	4.360
● LXHL-BR02	Royal Blue	220 mW	350	3.42	455 nm	97K3975	8.060
● LXHL-BD01	Red	27	385	3.27	625 nm	93K5785	2.360
● LXHL-BM01	Green	53	350	3.99	530 nm	93K5788	4.350
● LXHL-BW02	White	45	350	3.99	5500 K	93K5789	5.420

1 WATT — LAMBERTIAN RADIATION PATTERN

● LXHL-PB01	Blue	16	350	3.42	470 nm	93K5853	4.360
● LXHL-PD01	Red	44	385	2.95	625 nm	93K5855	3.540
● LXHL-PH01	Red-Orange	55	385	2.95	617 nm	93K5858	3.540
● LXHL-PL01	Amber	42	385	2.95	590 nm	93K5859	3.540
● LXHL-PM01	Green	53	350	3.42	530 nm	93K5860	4.350
● LXHL-PR03	Royal Blue	220 mW	350	3.42	455 nm	93K5862	4.340
● LXHL-PW01	White	45	350	3.42	5500 K	93K5864	5.420

1 WATT — SIDE EMITTING RADIATION PATTERN

● LXHL-DM01	Green	48	350	3.42	530 nm	97K3984	8.060
● LXHL-DR01	Royal Blue	198 mW	350	3.42	455 nm	97K3985	8.060
● LXHL-DW01	White	40.5	350	3.42	5500 K	97K3986	10.050

3 WATT — SIDE EMITTING RADIATION PATTERN

● LXHL-DW09	White	58	1000	4.47	5500 K	93K5794	6.210
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3 WATT — LAMBERTIAN RADIATION PATTERN

● LXHL-PB09	Blue	23	1000	4.47	470 nm	93K5854	5.180
● LXHL-PE09	Cyan	64	1000	4.47	505 nm	93K5857	5.180
● LXHL-PM09	Green	64	1000	4.47	530 nm	93K5861	5.180
● LXHL-PR09	Royal Blue	340 mW	1000	4.47	455 nm	93K5863	5.180
● LXHL-PW09	White	65	1000	4.47	5500 K	93K5866	6.210

5 WATT — LAMBERTIAN RADIATION PATTERN

● LXHL-PB02	Blue	48	700	8.31	470 nm	92K6441	20.670
● LXHL-PE02	Cyan	160	700	8.31	505 nm	92K6442	20.670
● LXHL-PM02	Green	160	700	8.31	530 nm	92K6443	20.670
● LXHL-PR02	Royal Blue	700 mW	700	8.31	455 nm	92K6444	20.670
● LXHL-PW03	White	120	700	8.31	5500 K	93K5865	24.860

(88645)

LUXEON FLASH

LIGHT BY
LUXEON

- High Flash Luminance from a single LED
- Compact SMD package
- "Flash" or "Torch" modes of operation
- Smallest power LED available 0.9H X 2.04 W X 1.64 Dmm
- 63 Lumen output
- LED junction temp. (Absolute Max.) 150

Luxeon Flash is an ultra compact small form factor light source specifically designed and tested for use as a camera flash in space constrained, portable digital imaging applications or for use as a flashlight lamp. The Luxeon Flash device is based on proven Luxeon technology and provides the highest level of light output available for a solid state light source. Featuring a 1.0mm profile this surface mount device has a 2.0mm x 1.6mm footprint and provides a useful life of 100,000 flashes at 1 amp, or 168 hours of DC (flashlight/torch mode) at 350mA.

Mfg. Part No.	Color	Luminous Intensity (mcd)	Continuous Current max. (mA)	Forward Voltage max. (V)	Stock No.	Price Each 1-24
● LXCL-PWF1	White	57000	1000	4.8	18K6537	2.330

(88676)

HIGH POWER LEDs

LIGHT BY
LUXEON

FEATURES

- High luminous flux output for illumination
- Exposed pad design for excellent heat transfer
- Designed for high current operation
- Reflow soldering applicable

APPLICATIONS

- Automotive (exterior and interior lighting)
- Backlighting LCD displays (televisions and computer monitors)
- Entertainment (studios, theaters, nightclubs, restaurants)
- Accent lighting (wall wash, landscape, spotlight)
- Bicycle and pedestrian safety lights

Do not look directly at LED with unshielded eyes or damage to retina may occur.

➤ CONTINUED ➤

HIGH POWER LEDs (CONT.)

.3-Watt SMD 6x6mm

Mfg. Part No.	Color	Viewing Angle	Flux (lm)		Stock No.	Price Each 1-24
			@ I _F -mA	Typ.		
● OV53WBCR4	White	120	120	7	35M5145	2.440
● OV53WBCR44	White	60	120	7	35M5146	3.050
● OV53WBCR4	White	120	120	7	45M7035	2.440
● OV53WBCR44	White	60	120	7	45M7036	3.050

.5-Watt SMD 6x6mm

Mfg. Part No.	Color	Viewing Angle	Flux (lm)		Stock No.	Price Each 1-24
			@ I _F -mA	Typ.		
● OV55WBCR4	White	120	180	21	35M5764	1.960
● OV55R4CR44	Red	40	175	8	35M5763	1.250
● OV55Y4CR44	Yellow	40	175	11	35M5765	1.220
● OV55R4CR44	Red	40	175	8	45M7037	1.220
● OV55WBCR4	White	120	180	21	45M7038	1.960
● OV55Y4CR44	Yellow	40	175	11	45M7039	1.220

1-Watt SMD 6x6mm

Mfg. Part No.	Color	Viewing Angle	Flux (lm)		Stock No.	Price Each 1-24
			@ I _F -mA	Typ.		
● OVSPBBCR4	Blue	120	350	9	17M0820	3.910
● OVSPGBCR4	Green	120	350	48	17M0821	4.550
● OVSPBCR4	Red	120	400	26	17M0822	2.050
● OVSPWBCR4	White	120	350	48	17M0823	3.510
● OVSPYBCR4	Yellow	120	400	35	17M0824	2.050
● OVSPRBCR44	Red	40	400	30	35M5760	2.600
● OVSPWBCR44	White	60	350	52	35M5761	4.460
● OVSPYBCR44	Yellow	40	400	35	35M5762	2.600
● OVSPRBCR44	Red	40	400	30	45M7031	2.600
● OVSPWBCR44	White	60	350	52	45M7033	4.460
● OVSPYBCR44	Yellow	40	400	35	45M7034	2.600

Full-color Power SMD 6x6mm

Mfg. Part No.	Color	Viewing Angle	Flux (lm)		Stock No.	Price Each 1-24
			@ I _F -mA	Typ.		
● OVSPRGBCR4	Red Green Blue	130	250 250 250	21 32 7.5	35M5144	9.150

Secondary Lenses for 6x6mm Power SMD (OV5xxxCR4 Series)

Mfg. Part No.	Color	Viewing Angle	Stock No.	Price Each 1-24
● OVLENS154	Clear with Black holder	15	35M5758	2.570
● OVLENS234	Clear with Black holder	23	46M2591	2.570

(85819)

LEDNIUM LED'S



A subsidiary of TT electronics plc

Features:

- Low Thermal Resistance
- Exceptional Spatial Uniformity
- Optional Optics to Suit Application
- Energy Efficient

Applications:

- Automotive Exterior and Interior Lighting
- Architectural Lighting
- Electronic Signs and Signals



The OPTEK Lednium Series device has been described as the world's first three dimensional LED platform for white, monochrome and mixed color LED arrays. Lednium devices carry a wide viewing angle (120°), high luminance (up to 420 lumens), low thermal resistance and long operating lifespan.

1 WATT - FLUSH MOUNT - 350mA INPUT CURRENT - 135° VIEWING ANGLE

Mfg. Part No.	Wave-length (nm)	Color	Typ. Flux (lm)	Typ. V _F (V)	Tape Cut		Tape & Reel QTY: 1000	
					Stock No.	Price Each	Stock No.	Price Each
● OVTL01LGAA	595	Amber	38	2.3	69K6357	3.390	69K2681	3.390
● OVTL01LGAB	460	Blue	15	3.4	69K6358	4.000	69K2682	4.000
● OVTL01LGAG	515	Green	52	3.6	69K6359	4.000	69K2683	4.000
● OVTL01LGAR	625	Red	53	2.3	69K6360	3.390	69K2684	3.390
● OVTL01LGAW	...	Cool White	50	3.4	69K6361	3.790	69K2685	4.120
● OVTL01LGAWD	...	Daylight White	45	3.4	27M3295	4.120	22M8370	4.120
● OVTL01LGAWW	...	Warm White	30	3.4	27M3298	4.120	22M8373	4.120

1 WATT - SURFACE MOUNT - 350mA INPUT CURRENT - 135° VIEWING ANGLE

● OVTL01LGAAS	595	Amber	38	2.3	27M3291	3.390	22M8366	3.390
● OVTL01LGAAS	460	Blue	15	3.4	27M3292	4.000	22M8367	4.000
● OVTL01LGAGS	515	Green	52	3.6	27M3293	4.000	22M8367	4.000
● OVTL01LGARS	625	Red	53	2.3	27M3294	3.390	22M8369	3.390

➤ CONTINUED ➤

POWER SMT EMITTERS

LEDNIUM LED's (CONT.)

1 WATT - SURFACE MOUNT - 350mA INPUT CURRENT - 135° VIEWING ANGLE

Mfg. Part No.	Wave-length (nm)	Color	Typ. Flux (lm)	Typ. V _F (V)	Tape Cut		Tape & Reel QTY: 1000	
					Stock No.	Price Each	Stock No.	Price Each
● OVTL01LGAWDS	...	Daylight White	45	3.4	27M3296	4.120	22M8371	4.120
● OVTL01LGAWS	...	Cool White	50	3.4	27M3297	4.120	22M8372	4.120
● OVTL01LGAWWS	...	Warm White	30	3.4	27M3299	4.120	22M8374	4.120

(85879)

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(148859)

TOP VIEW SURFACE MOUNT LEDs



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Features:

- High intensity with low power consumption
- Compatible with automatic placement equipment

- Surface mount LEDs – reflective PLCC and chip LED packages, including tunable full color RGB assemblies for indoor and outdoor displays

PLCC 2

Mfg. Part No.	Fig.	Package	Viewing Angle	Luminous Intensity (mcd)		V _F	Tape Cut		
				@ I _F -mA	Typ.		Stock No.	Price Each	
● OVFSW6C8	1	PLCC2	52K5240	30	1200	4	52K5240	1-24	25-99
								0.749	0.513

PLCC 4

Mfg. Part No.	Fig.	Chip			Luminous Intensity (mcd)		Viewing Angle	V _F	Tape Cut		
		Material	Color	Wave-length (nm)	@ I _F -mA	Typ.			Stock No.	Price Each	
● OVSAABC2R8	2	AlInGaP	Amber	591	50	700	120	2.6	52K5277	1-24	25-99
● OVSAABC2R8	2	InGaP	Blue	470	30	200	120	3.9	52K5279	0.879	0.585
● OVSAABC2R8	2	InGaP	Blue Green	505	30	560	120	3.9	52K5280	1.020	0.675
● OVSAABC2R8	2	InGaP	Green	527	30	700	120	3.9	52K5281	1.020	0.675
● OVSAABC2R8	2	AlInGaP	Red	628	50	900	120	2.5	52K5284	0.710	0.473
● OVSAABLCR8	3	AlInGaP	Amber	591	50	1800	60	2.6	52K5278	0.710	0.473
● OVSAABLCR8	3	AlInGaP	Red/Orange	618	50	2800	60	2.5	52K5282	0.744	0.495
● OVSAABLCR8	3	AlInGaP	Red	628	50	900	60	2.5	52K5285	0.744	0.495

FULL COLOR (R/G/B) SMD

Mfg. Part No.	Fig.	Chip Size	Viewing Angle	Luminous Intensity (mcd)		V _F	Tape Cut		
				@ I _F -mA	Typ. (R/G/B)		Stock No.	Price Each	
● OVSARGB3R8	4	PLCC4	120	20	300/450/110	3.6	52K5283	1.660	1.110
● OVSTRGBBCR8	5	PLCC6	120	80	1000/900/280	4	52K5302	2.740	1.830

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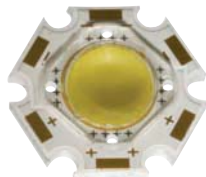
OPTIMAL LEDs

Just Added



Features:

- Viewing Angle = 135°
- Customized for Optek **Lednium Series** 1-watt device
- Low thermal resistance (4.9° C/W junction to heatsink)
- Exceptional thermal conductivity with metal core PCB
- Soldering points provided for electrical connections
- Locating slots for M3 screws



OPTIMAL LEDs (CONT.)

OPTIMAL XIV STAR SERIES

Applications:

- Portable Flashlights
- Security / Garden Lighting
- Indoor / Outdoor Commercial Lighting

- Architectural Lighting
- Light Guides
- MR16 Lighting

The **OV14Zx-y** Star Series is designed with high flux output and exceptional thermal resistance by recessing the multiple die into the metal core PCB.

Mfg. Part No.	LED Color	Forward Voltage (V)	Luminous Flux (lm)	Color Temp. Typ. (K)	Stock No.	Price Each 1-9
● OV14ZW-1	Cool White	10	350	6500	08R4470	22.710
● OV14ZW-2	Cool White	10	510	6500	08R4471	31.210
● OV14ZW-3	Cool White	10	650	6500	08R4472	39.740
● OV14ZWD-1	Daylight White	10	350	5400	08R4473	25.540
● OV14ZWD-2	Daylight White	10	510	5400	08R4474	34.070
● OV14ZWD-3	Daylight White	10	650	5400	08R4475	42.570
● OV14ZWW-1	Warm White	10	300	3300	08R4476	25.540
● OV14ZWW-2	Warm White	10	450	3300	08R4477	34.070
● OV14ZWW-3	Warm White	10	550	3300	08R4478	42.570

(133271)

OPTIMAL I STAR SERIES

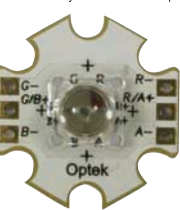
Mfg. Part No.	LED Color	Forward Voltage (V)	Luminous Flux (lm)	Wavelength (nm)	Stock No.	Price Each 1-9
● OVTLZ1LGAA	Amber	3.4	35	595	11N5702	3.010
● OVTLZ1LGAB	Blue	3.4	12	460	11N5703	3.430
● OVTLZ1LGAC	Cyan	3.6	40	505	11N5704	3.970
● OVTLZ1LGAG	Green	2.3	60	515	11N5705	3.430
● OVTLZ1LGAR	Red	2.3	45	625	11N5706	3.010
● OVTLZ1LGAW	Cool White	3.4	65	...	11N5707	3.550
● OVTLZ1LGAWD	Daylight White	3.4	60	...	11N5708	3.490
● OVTLZ1LGAWW	Warm White	3.6	50	...	11N5709	3.550

➤ CONTINUED ➤

POWER SMT EMITTERS • CIRCUIT BOARD INDICATORS

OPTIMAL IV
1 WATT LEDs

Just Added



Features:

- Viewing Angle = 60°
- Designed for 4 1-watt chips in recessed cavity with an optical grade 5mm diameter lens
- Exceptional thermal resistance

The **OV4Z** Series devices are exceptionally bright and ideally suited for applications including large signage; interior, exterior and landscape architectural lighting; recreational areas such as pools, spas and boats; and specialty lighting including vending machines, display cases and stage lighting.

MONO-COLOR LED

Mfg. Part No.	LED Color	Forward Voltage @ 700 mA (V)	Luminous Flux @ 700 mA (lm)	Wavelength (nm)	Stock No.	Price Each
● OV4ZBBB	Blue	14.2	49	460	45P7999	12.850
● OV4ZGGG	Green	14.6	272	535	45P8000	14.120
● OV4ZRRR	Red	9.55	183	630	45P8002	10.800
● OV4ZAAA	Amber	9.35	170	595	45P7998	10.800
● OV4ZWD	Daylight White	14.2	273	...	45P8004	14.390

MULTI-COLOR LED

Mfg. Part No.	LED Color	Forward Voltage @ 350 mA (V)	Luminous Flux @ 350 mA (lm)	Wavelength (nm)	Stock No.	Price Each
● OV4ZRGB	Blue/Green/Red/Amber	3.6/3.9/2.5/2.5	5/30/35/36	460/535/630/595	45P8001	12.850

(147091)

DRAGON
LEDs

Just Added



Features:

- All colors: red, amber, yellow, true green, blue, deep blue, ultra white and warm white
- High junction temperature of up to 175°C
- Low thermal resistance of 2.5 K/W (typ.), max. 5 K/W

- High maximum forward current of up to 2 A
- High efficiency
- Suitable for standard IR reflow soldering
- Black package

Applications:

- Daytime running light
- Front turn indicator
- Fog light
- Emergency lights
- Warning lights
- Architainment

- Retrofits
- Small spotlights
- Recessed downlights
- Stage lighting
- Architectural illumination

DIAMOND DRAGON

Mfg. Part No.	Color	Dominant Wavelength Typ. (nm)	Luminous Flux (lm)	Forward Current (A)	Stock No.	Price Each
● LAW5AP-LXMY-24	Amber	617	185	2	11N5364	16.650
● LBW5AP-HZKY-23	Blue	470	75	2	11N5365	19.030
● LBW5AP-JYKY-35	Blue	470	75	2	11N5366	19.030
● LDW5AP-3VBA-35	Deep Blue	455	1250 mW	2	11N5373	19.030
● LRW5AP-KZMX-1	Red	625	150	2	11N5408	16.650
● LTW5AP-LYMZ-25	True Green	528	220	2	11N5411	19.030
● LYW5AP-KYLZ-36	Yellow	590	140	2	11N5418	16.650

GOLDEN DRAGON

● LYW51MHXJY-36	Yellow	590	61	0.4	11N5419	5.270
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GOLDEN DRAGON PLUS

Mfg. Part No.	Color	Luminous Flux (lm)	Lum. Int. (mcd)	Forward Current (A)	Stock No.	Price Each
● LCW5AM-HZJY-4R9T	Warm White	75	12500	1	11N5367	7.920
● LCW5AM-HZJZ-4U9X	Warm White	75	13800	1	11N5368	7.920
● LCW5AM-JXKX-4O9Q	Warm White	75	15900	1	11N5369	8.450
● LCW5AM-JYKY-4L8N	Warm White	75	16800	1	11N5370	9.480
● LCW5AM-JYKY-4J8K	Warm White	75	18600	1	11N5371	9.510
● LCW5AM-JZKX-4L8N	Warm White	75	17900	1	11N5372	9.510
● LWW5AM-KXKY-6K7L	White	85	22900	1	11N5416	9.510
● LUW5AM-KXKZ-4C8E	Ultra White	110	22900	1	11N5412	8.450
● LUW5AM-KXKZ-5F8G	Ultra White	110	22900	1	11N5413	8.450
● LUW5AM-KXKZ-5P7R	Ultra White	110	22900	1	11N5414	8.450
● LUW5AM-KYLX-6P7Q	Ultra White	110	22900	1	11N5415	8.190

(142328)

POWER SMD LEDs

Just Added



Features:

- Utilizing AlInGaP and InGaN technology
- Viewing Angle 60°
- Very low thermal resistance
- High optical power

- Luminous intensity and color grouping
- Preconditioning: acc. to JEDEC level 4
- Automotive qualified AEC-Q101

Applications:

- Camera flash light
- Interior and exterior automotive lighting: brake lights, turn lights, backlighting, side markers

- Indicator lighting
- Signal and symbol luminaire
- Marker lights

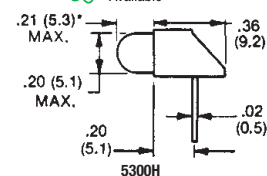
CLCC-6 PACKAGE

Mnf. Part No.	Color	Lum. Intensity (mcd)	Lum. Flux Typ. (lm)	Forward Voltage (V)	Stock No.	Price
● VLMK61CADA-GS08	Amber	5600	14.1	3	98M4599	2.300
● VLMY61CADA-GS08	Yellow	5600	14.1	3	98M4744	2.300
● VLMW61BADA-K3L5-08	White	5600	10	4.3	98M4715	5.680
● VLMW61CADB-3K8L-08	White	7100	13.2	4.3	98M4713	2.890

CLCC-6 FLAT PACKAGE (0.9 mm height)

● VLMK62CADA-GS08	Amber	5600	14.1	3	98M4601	2.300
● VLMY62CADA-GS08	Yellow	5600	14.1	3	98M4746	2.230
● VLMW62BADA-K3L5-08	White	5600	10	4.3	98M4719	5.680
● VLMW621CADB-K3L5-08	White	7100	13	4.3	98M4720	3.630
● VLMW62CADB-3K8L-08	White	7100	12	4.3	98M4717	2.890
● VLMW62CBEA-3K8L-08	White	9000	17	4.3	98M4718	4.590

(133262)

5300 SERIES CIRCUIT
BOARD INDICATORS

T-1 1/4 RIGHT ANGLE LED ASSEMBLIES

Mfg. Part No.	Color	Wavelength (nm)	Luminous Intensity (mcd)	Forward Voltage Typ. (V)	Stock No.	Price Each
● 5300H1	Red	650	6.3	2	93K6788	0.499
● 5300H5	Green	563	10	2.2	93F3513	0.499
● 5300H7	Yellow	585	6.3	2.1	93K6789	0.499
● 5306H7	Yellow	585	6.3	2.1	93K6791	0.915
● 5330H5	Green	562	30	2.2	95F9436	0.915

T-1-3/4 BI-COLOR RIGHT ANGLE LED ASSEMBLIES

● 5300H1/5	Red/Green	650	6	2.2	93F7854	1.250
● 5300H5/1	Green/Red	650	6	2.2	16M0864	1.250
● 5305H1/5	Red/Green	650/565	10	2.8	93K6790	2.250

T-1-3/4 VERTICAL LED ASSEMBLIES

● 5381H5	Green	563	10	2.2	05C1731	0.804
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T-1 LED CIRCUIT BOARD INDICATOR

● 5310F1	Red	650	10	2	05C1642	1.280
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T-3/4 RIGHT ANGLE LED ASSEMBLIES

● 5350T5LC	Green	565	1.2	1.8	05C1693	1.280
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(2556)

DIALIGHT 593 SERIES 3mm
TRI-LEVEL PRISM SURFACE
MOUNT INDICATORS

Features:

- Incorporates latest LED technology, specifically designed for surface mounting
- Patented Tri-level design provides increased indication without increased space
- Illumination areas compatible with industry standard 3mm through-hole Tri-level Circuit Board Indicators
- Helps to eliminate mixed technology pc board processing



The **593 Series** Tri level Prism is available in 11 LED color options including bi-color and tri-color. There are numerous color combinations that can be supplied in any of the three positions from top to bottom depending upon customers needs.

Mfg. Part No.	LED Color	V _F (V)	Luminous Intensity (mcd)	I _F (mA)	Stock No.	Price Each
● 593-202020-013F	Red	2	6	30	78M7271	3.620
● 593-212121-013F	Red	1.75	29	30	78M7272	3.880
● 593-222222-013F	Green	2	16	30	78M7273	3.620

➔ CONTINUED ➔

CIRCUIT BOARD INDICATORS

DIALIGHT 593 SERIES 3mm TRI-LEVEL PRISM SURFACE MOUNT INDICATORS (CONT.)

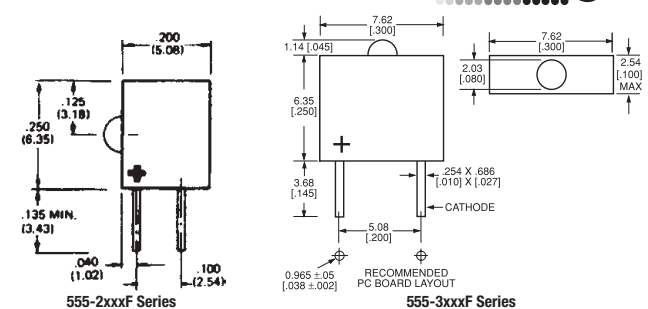
Mfg. Part No.	LED Color	V _F (V)	Luminous Intensity (mcd)	I _F (mA)	Stock No.	Price Each
593-232323-013F	Green	2	11	30	78M7274	3.620
593-242424-013F	Yellow	2	11	30	78M7275	3.620
593-262626-013F	Blue	3.5	7	20	78M7276	5.870
593-272727-013F	Yellow	3.5	80	30	78M7277	3.790
593-282828-013F	White	3.5	85	20	78M7278	7.130
593-303030-013F	Red/Green	2	7/10	30	78M7279	4.020
593-313131-013F	Yellow/Green	2	6/10	30	78M7280	4.020

(106487)

555 SERIES SINGLE 2mm SUBMINIATURE INDICATORS



Dialight



555 series top-view and right-angle single indicators feature 2mm standard efficiency and resistor LED. They are fully compatible with 555 series quad indicators, ordered separately; go online or call.

Mfg. Part No.	LED Color	V _F Typ.	I _F (mA)	Luminous Intensity (mcd)	Stock No.	Price Each
555-2001F	Red	1.6	40	1.2	30K2708	1.480
555-2003F	Red	6	6	1.9	30K2710	1.530
555-2007F	Red	6	3	0.9	30K2715	1.560
555-2008F	Red	24	3	0.9	30K2717	1.600
555-2009F	Red	6	1	0.6	30K2718	1.550
555-2301F	Green	2.4	25	1	30K2720	1.330
555-3301F	Green	2.4	25	1	30K2736	2.070
555-3303F	Green	6	4.7	2.5	30K2737	2.250
555-2303F	Green	6	4.7	2.5	30K2721	1.500
555-2401F	Yellow	2.2	25	2	30K2723	1.500
555-2403F	Yellow	6	4.7	2.1	30K2724	1.530
555-3401F	Yellow	2.2	25	2	30K2739	2.070
555-3403F	Yellow	6	4.7	2.1	30K2740	2.250
555-3009F	Red	6	1	0.6	30K2734	2.010

Mfg. Part No.	LED Color	V _F Typ.	Test Current (mA)	Luminous Intensity (mcd)	Stock No.	Price Each
555-2001F	Red	1.6	20	1.2	30K2708	1.480
555-2003F	Red	5.0	6	1.9	30K2710	1.530
555-2007F	Red	5.0	3	0.9	30K2715	1.560
555-2008F	Red	24	3	0.9	30K2717	1.600
555-2009F	Red	5	1	0.6	30K2718	1.550
555-2301F	Green	2.4	20	1	30K2720	1.330
555-3301F	Green	2.4	20	1	30K2736	2.070
555-3303F	Green	5.0	4.7	2.5	30K2737	2.250
555-2303F	Green	5.0	4.7	2.5	30K2721	1.500
555-2401F	Yellow	2.2	20	2	30K2723	1.500
555-2403F	Yellow	5.0	4.7	2.1	30K2724	1.530
555-3401F	Yellow	2.2	20	2	30K2739	2.070
555-3403F	Yellow	...	5	2.1	30K2740	2.250
555-3009F	Red	5	1	0.6	30K2734	2.010

(2590)

element14

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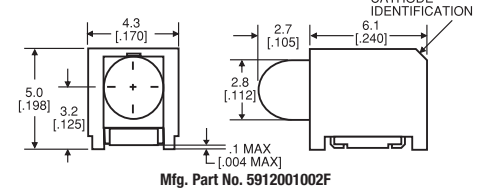
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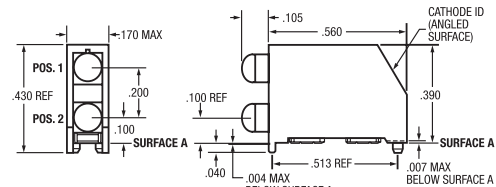
CIRCUIT BOARD INDICATOR SURFACE MOUNT LEDS



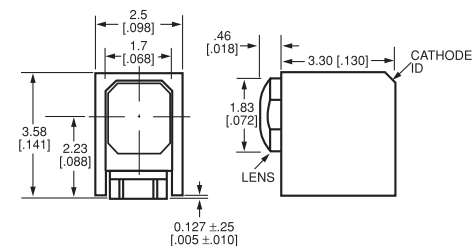
Dialight



Mfg. Part No. 5912001002F



Mfg. Part No. 5923030002F



Mfg. Part No. 5952101002F

Available on Tape & Reel; go online or call.

SINGLE LED, SINGLE COLOR

Mfg. Part No.	Color	Lens Style	Typ. V _F (V)	Lum. Intensity (mcd)	Stock No.	Price Each
591-2101-002F	AlGaAs Red	Round	1.8	23.9	30K4667	1.700
591-2101-007F	AlGaAs Red	Round	1.8	23.9	30K4668	1.550
591-2101-013F	AlGaAs Red	Round	1.8	23.9	30K4669	1.550
591-2101-102F	AlGaAs Red	Square	1.8	23.9	30K4670	1.700
591-2101-107F	AlGaAs Red	Square	1.8	23.9	30K4671	1.550
591-2101-113F	AlGaAs Red	Square	1.8	23.9	30K4672	1.550
595-2101-002F	Red	Square	1.7	25	30K4823	1.720
595-2101-007F	Red	Square	1.7	25	30K4824	1.550
595-2101-013F	Red	Square	1.7	25	30K4825	1.550
591-2001-002F	High Efficiency Red	Round	2	5	30K4658	1.640
591-2001-007F	High Efficiency Red	Round	2	5	30K4659	1.480
591-2001-102F	High Efficiency Red	Square	2	5	30K4662	1.640
591-2001-107F	High Efficiency Red	Square	2	5	30K4663	1.480
591-2001-113F	High Efficiency Red	Square	2	5	30K4664	1.480
591-2201-002F	High Efficiency Green	Round	2.1	9.1	30K4674	1.780
591-2201-102F	High Efficiency Green	Square	2.1	9.1	30K4677	1.780
595-2201-002F	High Efficiency Green	Square	2.2	8.5	30K4827	1.830
591-2201-007F	High Intensity Green	Round	2.1	9.1	30K4675	1.610
591-2201-107F	High Intensity Green	Square	2.1	9.1	30K4678	1.610
591-2301-002F	High Efficiency Green	Round	2	4	30K4680	1.650
591-2301-007F	High Efficiency Green	Round	2	4	30K4681	1.480
591-2301-013F	High Performance Green	Round	2.6	4	30K4682	1.520
591-2301-113F	High Efficiency Green	Square	4	4	30K4685	1.480
591-2401-007F	High Performance Yellow	Round	2.6	5	30K4689	1.480
591-2701-007F	AlInGaP Yellow	Round	2.4	33.6	30K4707	1.610
591-2701-107F	AlInGaP Yellow	Square	2.4	33.6	30K4710	1.610
595-2301-002F	High Efficiency Green	Square	2.1	11	30K4832	1.720
595-2301-007F	High Efficiency Green	Square	2.1	11	30K4833	1.550
591-2301-013F	High Efficiency Green	Square	2.1	11	30K4834	1.550
591-2401-002F	High Efficiency Yellow	Round	2	5	30K4688	1.700
591-2401-013F	High Efficiency Yellow	Round	2	5	30K4690	1.480
591-2401-113F	High Efficiency Yellow	Square	2	5	30K4693	1.480
595-2401-002F	High Efficiency Yellow	Square	2.2	9	30K4837	1.700
595-2401-007F	High Efficiency Yellow	Square	2.2	9	30K4838	1.550
591-2701-002F	Yellow	Round	2	33.6	30K4706	1.780
591-2701-102F	Yellow	Square	2	33.6	30K4709	1.780
595-2701-002F	Yellow	Square	2.02	41	30K4847	1.820
591-2501-102F	Orange	Square	...	...	30K4698	1.020
595-2501-002F	Orange	Square	2.2	9	30K4844	1.700

» CONTINUED »

CIRCUIT BOARD INDICATORS

CIRCUIT BOARD INDICATOR SURFACE MOUNT LEDS (CONT.)

Mfg. Part No.	Color	Lens Style	Typ. VF (V)	Lum. Intens. (mcd)	Stock No.	Price Each
● 591-2601-002F	Blue	Round	3.5	6	30K4700	3.400
● 591-2601-102F	Blue	Square	3.5	6	30K4703	3.170
● 591-2801-002F	White	Round	3.5	19.2	30K4712	3.600
● 591-2801-102F	White	Square	3.5	19.23	30K4715	3.600

SINGLE LED, DUAL COLOR

● 591-3001-002F	Super Intensity Red/Green	Round	2	8	30K4724	3.050
● 591-3001-007F	Super Intensity Red/Green	Round	2.6	8	30K4725	2.750
● 591-3001-013F	Super Intensity Red/Green	Round	2	8	30K4726	2.750
● 591-3001-113F	Red/Green	Square	2	6.8	30K4731	2.750
● 591-3101-002F	Yellow/Green	Round	2	8	30K4739	3.020
● 591-3101-007F	Yellow/Green	Round	2.6	8	30K4740	2.750
● 591-3101-013F	Yellow/Green	Round	2	8	30K4741	2.750
● 591-3101-102F	Yellow/Green	Square	2.6	16	30K4742	3.020
● 591-3101-107F	Yellow/Green	Square	2.6	8	30K4743	2.750
● 591-3101-113F	Yellow/Green	Square	2	8	30K4744	2.750
● 591-3201-002F	Super Intensity Red/Yellow	Round	2	6.5	30K4747	3.020
● 591-3201-007F	Super Intensity Red/Yellow	Round	2.6	6.5	30K4748	2.750
● 591-3201-013F	Super Intensity Red/Yellow	Round	2	6.5	30K4749	2.250
● 591-3201-102F	Super Intensity Red/Yellow	Square	2	6.5	30K4750	3.020
● 591-3201-107F	Super Intensity Red/Yellow	Square	2.6	6.5	30K4751	2.750
● 597-7731-107F	Red/Yellow	Square	2.8	8	30K5043	0.726

DUAL LED, SINGLE COLOR

● 592-2020-002F	Red	Round	2	5	30K4761	3.340
● 592-2023-002F	Red/Green	Round	2	5/4	30K4763	3.240
● 592-2121-002F	Red	Round	1.8	23.9	30K4765	3.240
● 592-2124-002F	Red/Yellow	Round	1.8/2	23.9/33.6	30K4767	3.240
● 592-2222-002F	Green	Round	2.1	9.1	30K4769	5.830
● 592-2320-002F	Green/Red	Round	2	5	30K4771	3.240
● 592-2323-002F	Green	Round	2	4	30K4774	3.340
● 592-2324-002F	Green/Yellow	Round	2	5	30K4776	3.340
● 592-2326-002F	Green/Blue	Round	2/3.5	6	30K4778	4.730
● 592-2420-002F	Yellow/Red	Round	2	5	30K4789	3.240
● 592-2423-002F	Yellow/Green	Round	2	4	30K4792	3.340
● 592-2424-002F	Yellow	Round	2	5	30K4794	3.340
● 592-2727-002F	Yellow	Round	2/3.5	33.6	30K4804	3.590
● 592-2525-002F	Orange	Round	...	...	30K4796	3.240
● 592-2626-002F	Blue	Round	3.5	6	30K4798	6.550
● 592-2628-002F	Blue/White	Round	3.5	19	30K4800	6.340
● 592-2828-013F	White	Round	3.5	19	30K4807	5.700
● 592-2020-013F	Red/Red	Round	2.0	5	30K4762	2.910
● 592-2023-013F	Red/Green	Round	2.0	5/4	30K4764	2.910
● 592-2323-013F	Green/Green	Round	2.0	4	30K4775	2.910
● 592-2324-013F	Green/Yellow	Round	2.0	4/5	30K4777	2.910
● 592-2420-013F	Yellow/Red	Round	2.0	5	30K4790	2.910
● 592-2423-013F	Yellow/Green	Round	2.0	5/4	30K4793	2.910
● 592-2424-013F	Yellow/Yellow	Round	2.0	5	30K4795	2.910
● 592-2626-013F	Blue/Blue	Round	3.5	6	30K4799	5.700
● 592-2628-013F	Blue/White	Round	3.5	6/19	30K4801	5.700

DUAL LED, DUAL COLOR

● 592-3030-002F	Red/Green, Red/Green	Round	2	8	30K4808	4.640
● 592-3031-002F	Red/Green-Yellow/Green	Round	2	8	30K4810	4.500
● 592-3232-002F	Red/Yellow, Red/Yellow	Round	2	6.5	30K4818	4.500
● 592-3131-002F	Yellow/Green, Yellow/Green	Round	2	8	30K4816	4.640
● 592-3030-013F	Red/Green-Red/Green	Round	2	6.5/8	30K4809	4.050
● 592-3031-013F	Red/Green-Yellow/Green	Round	2	6.5/8	30K4811	4.050
● 592-3131-013F	Yellow/Green-Yellow/Green	Round	2	6.5/8	30K4817	4.050
● 592-3232-013F	Red/Yellow-Red/Yellow	Round	2	6.5	30K4819	4.050

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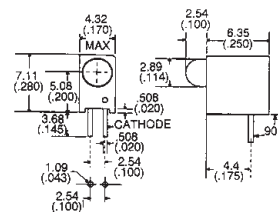
551 SERIES
SINGLE
3mm LED
INDICATORS

Fig. 1

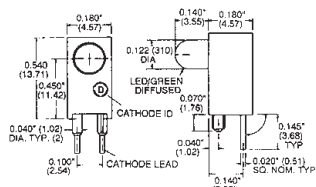


Fig. 2

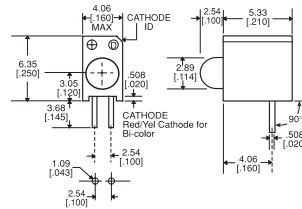


Fig. 3

551 series single 3mm LED indicators offer high efficiency, low current and integral resistor LED in packages that put the LED center line at a height of 0.200, 0.250, and 0.450". Some indicators also available in quad block; go online or call for more information.

Mfg. Part No.	Fig.	LED Color	VF Typ.	Current (mA)	Lum. Intens. Typ. (mcd)	Stock No.	Price Each
● 551-0207F	1	Green	2.1	10	16.0	30K1434	0.635
● 551-0307F	1	Yellow	2.1	10	6.3	30K1466	0.616
● 551-0407F	1	Red	2.0	10	10.0	30K1498	0.635
● 551-1107F	1	Red	1.8	2	1.8	30K1572	0.827
● 551-1207F	1	Yellow	1.9	2	1.6	30K1601	0.827
● 551-1307F	1	Green	1.8	2	1.6	30K1624	0.827
● 551-3007F	1	Red/Green	2.0	10	5.0	30K1707	1.210
● 551-0607F	1	Green	5	10	19	30K1542	0.928
● 551-0807F	1	Blue	3.5	10	12	30K1562	2.600
● 551-0303F	2	Yellow	2.1	10	6.3	30K1463	0.687
● 551-0203F	2	Green	2.1	10	16.0	30K1427	0.687
● 551-0403F	2	Red	2.0	10	10.0	30K1489	0.687
● 551-0404F	2	Red	2	10	10	30K1490	0.687
● 551-0209F	3	Green	2.1	10	16	30K1456	0.746
● 551-0409F	3	Red	2.0	10	10	30K1516	0.746
● 551-1109F	3	Red	1.7	10	1.6	30K1592	0.827
● 551-1209F	3	Yellow	1.8	10	1.6	30K1613	0.809
● 551-1309F	3	Green	1.9	10	1.6	30K1650	0.793
● 551-0809F	3	Blue	3.5	10	12	30K1565	2.650
● 551-3009F	3	Red/Green	2	20	10/4.7	30K1713	1.410
● 551-0201F	...	Green	2.1	20	12.6	30K1423	0.687
● 551-1502F	...	Green	2.1	10	50	30K1660	0.674
● 551-0207-004F	...	Green	2.1	10	16	30K1436	3.660
● 551-0407-004F	...	Red	2	10	10	30K1500	3.220
● 551-1307-004F	...	Green	1.9	2	1.6	30K1626	4.750

(2591)

550 SERIES 5mm
SINGLE-LED INDICATORS

Dialight

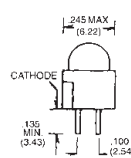


Fig. 1

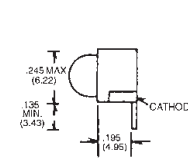


Fig. 2

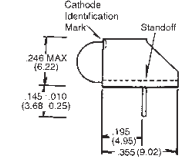


Fig. 3

High luminous intensity solid-state light source available in red, green or yellow and 2-leaded bicolor. Right-angle housing offers ease of assembly and pre-trimmed leads compatible with dual or quad 550 series.

Mfg. Part No.	Fig.	Color	V _F (V)	Current (mA)	Luminous Intensity (mcd)	Stock No.	Price Each
● 550-3004F	1	Red/Grn	1.8/2.1	20	60/20	30K1078	2.260
● 550-0404F	1	Red	2	20	12.3	30K0806	0.983
● 550-0204F	1	Green	2.1	20	12.3	30K0763	0.983
● 550-0304F	1	Yellow	2.1	20	12.3	30K0790	0.983
● 550-0504F	1	Red	5	13	2	30K0824	1.380
● 550-0704F	1	Green	5	12	8	30K0845	1.380
● 550-0804F	1	Yellow	5	10	8	30K0861	1.380
● 550-0405F	2	Red	2	20	12.3	30K0809	0.811
● 550-0205F	2	Green	2.1	20	12.3	30K0766	0.811

➔ CONTINUED ➔

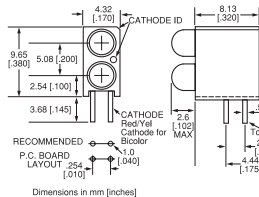
CIRCUIT BOARD INDICATORS

550 SERIES 5mm SINGLE-LED INDICATORS (CONT.)

Mfg. Part No.	Fig.	Color	V _F (V)	Current (mA)	Luminous Intensity (mcd)	Stock No.	Price Each
550-0305F	2	Yellow	2.1	20	12.3	30K0793	0.811
550-0505F	2	Red	5	13	2	30K0828	1.130
550-0705F	2	Green	5	12	8	30K0849	1.130
550-0805F	2	Yellow	5	10	8	30K0865	1.130
550-0807F	3	Yellow	5	15	8	30K0868	1.130
550-1105F	2	Red	1.8	2	2	30K0886	1.060
550-1305F	2	Green	1.8	2	1.8	30K0918	1.060
550-3007F	3	Red/Gm	1.75/2.0	10	14/6	30K1092	1.720
550-1307F	3	Green	1.8	2	1.8	30K0923	1.060
550-1107F	3	Red	1.8	2	2	30K0891	0.961
550-1207F	3	Yellow	1.9	2	1.8	30K0908	1.060
550-0407F	3	Red	2	20	12.3	30K0814	0.811
550-2307F	3	Yellow	2.1	10	6.3	30K1006	0.876
550-2207F	3	Green	2.1	10	10	30K0968	0.716
550-0207F	3	Green	2.1	20	12.3	30K0779	0.811
550-0307F	3	Yellow	2.1	20	12.3	30K0797	0.654
550-2407F	3	Red	2.2	10	7	30K1047	0.710
550-0507F	3	Red	5	13	2	30K0837	1.030
550-1007F	3	Blue	...	20	1.5	30K0878	3.050
550-2305F	2	Yellow	2.1	10	6.3	30K1000	0.876
550-2405F	2	Red	2.2	10	7	30K1032	0.876
550-2208F	3*	Green	2.1	10	10	30K0992	0.858
550-2308F	3*	Yellow	2.1	10	6.3	30K1023	1.020
550-2408F	3*	Red	2.2	10	7	30K1065	0.858
550-2504F	1	Orange	1.9	10	7	30K1068	0.876
550-3609F	...	Yellow/Green	2.1/2.1	10	5/8	30K1146	2.360
550-5305F	2	Yellow	2.2	20	34	30K1177	1.060
550-5605F	2	Green	2.3	20	120	30K1213	1.130
550-5707F	3	Yellow	...	20	140	30K1232	1.130

*Centerline of LED is 0.250" from PCB surface (2597)

553 SERIES 3mm BI-LEVEL INDICATORS



Bi-level solid state light source available in red, green or yellow; with or without integral resistors. Also available in standard and super efficient versions. 553 series design conserves PC board space and right angle housing offers ease of assembly. Leads are pretrimmed.

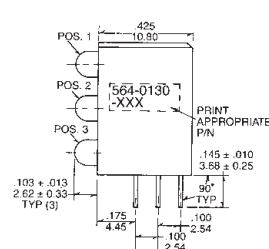
Mfg. Part No.	LED Color (Top/Bot)	V _F Typ.	Current (mA)	Luminous Intensity (mcd)	Stock No.	Price Each
553-0111F	Red/Red	2.0	10	10.0	30K2126	1.800
553-0112F	Red/Green	2.0	10	10.0	30K2145	1.800
553-0121F	Green/Red	2.1	10	16.0	30K2195	1.320
553-0122F	Green/Green	2.1	10	16.0	30K2207	1.600
553-0123F	Green/Yellow	1.8	2	1.6	30K2234	1.800
553-0132F	Yellow/Green	2.1	20	4.3/6.3	30K2277	1.800
553-0133F	Yellow/Yellow	2.1	10	6.3	30K2296	1.800
553-0211F	Red/Red	1.8	2	1.8	30K2361	1.970
553-0212F	Red/Green	2.0	10	10.0	30K2371	1.970
553-0222F	Green/Green	1.8	2	1.6	30K2393	1.970
553-0233F	Yellow	1.9	2.0	1.6	30K2448	1.970
553-0311F	Red/Red	5.0	10	4.0	30K2466	2.110
553-0333F	Yellow	5.0	10	4.0	30K2506	2.110
553-0711F	Red/Green, Red/Green	2.0	10	5.0	30K2529	2.640
553-0744F	Yellow/Green, Yellow/Green	2.1	20	4.3/6.3	30K2602	2.640
553-0221F	Green/Red	1.9	2	1.6	30K2385	1.650
553-0223F	Green/Yellow	1.9	2	1.6	30K2421	1.970
553-0321F	Green/Red	5	2	1.6	30K2487	2.110
553-0322F	Green/Green	5	10	19	30K2488	1.760
553-0323F	Green/Yellow	5	10	19	30K2497	2.110
553-0111-200F	Red/Red	2	20	10	30K2133	1.800
553-0122-200F	Green/Green	2.1	10	12.6	30K2216	1.800
553-0222-300F	Green/Green	1.9	2	1.6	30K2406	1.970
553-0711-200F	Red/Green, Red/Green	2.1/2.1	10	4.3/6.3	30K2541	2.640

(2521)

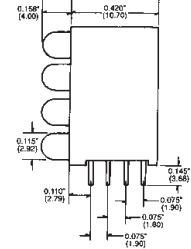
3mm SINGLE, TRI- AND QUAD-LEVEL INDICATORS



Dialight



564 Series



568 Series

Design conserves PC board space and right angle housing offers ease of assembly. Leads are pre-trimmed. Also available in standard and super-efficient versions; go online or call.

SINGLE-LEVEL INDICATORS

Mfg. Part No.	LED Color	V _F Typ.	Current (mA)	Luminous Intensity (mcd)	Stock No.	Price Each
551-0207-004F	Green	2.1	10	16	30K1436	3.660 3.040
551-0407-004F	Red	2	10	10	30K1500	3.220 2.670
551-0507-004F	Red	5	10	29	30K1525	5.240 4.360
551-0607-004F	Green	5	10	19	30K1543	4.600 3.830
551-0707-004F	Yellow	6	10	12.6	30K1554	5.240 4.360
551-1107-004F	Red	1.7	3	1.6	30K1574	3.770 3.140
551-1307-004F	Green	1.9	2	1.6	30K1626	4.750 3.950
551-3007-004F	Red/Green	2/2.1	10	4.7/10	30K1708	8.690 7.220

TRI-LEVEL INDICATORS

Mfg. Part No.	LED Color	V _F Typ.	Current (mA)	Luminous Intensity (mcd)	Stock No.	Price Each
564-0100-111F	Rd/Rd/Rd	2.0*	10	10	30K3446	3.130 2.610
564-0100-132F	Rd/Yl/Gr	2.0*/2.1*/2.2	10	10/10/12.6	30K3457	3.130 2.610
564-0100-222F	Gr/Gr/Gr	2.1*	10	12.6	30K3470	2.430 2.020
564-0100-333F	Yl/Yl/Yl	2.2	10	10	30K3496	3.130 2.610
564-0200-111F	Rd/Rd/Rd	5	10	4	30K3581	3.470 2.880
564-0200-132F	Rd/Yl/Gr	1.7/1.8/1.9	2.0	1.7/1.8/1.9	30K3588	3.470 2.880
564-0200-222F	Gr/Gr/Gr	1.9	2.0	1.6	30K3603	2.910 2.420
564-0300-111F	Rd/Rd/Rd	5	10	4	30K3669	2.880 2.400
564-0300-132F	Rd/Yl/Gr	5/5/5	10/10/12	4/8/8	30K3674	2.950 2.450
564-0300-222F	Gr/Gr/Gr	5	12	8	30K3683	3.540 2.940
564-0700-111F	Rd/Gr-Rd/Gr-Rd/Gr	1.7-1.9	2.0	1.6	30K3711	4.610 3.830
564-0700-444F	Yl/Gr-Yl/Gr-Yl/Gr	1.8-1.9	2.0	1.6	30K3717	4.400 3.660

QUAD-LEVEL INDICATORS

Mfg. Part No.	LED Color	V _F Typ.	Current (mA)	Luminous Intensity (mcd)	Stock No.	Price Each
568-0101-111F	Rd/Rd/Rd/Rd	2.0	10	10	30K4003	3.870 3.220
568-0102-222F	Gr/Gr/Gr/Gr	2.1*	10	8.5	30K4051	3.870 3.220
568-0102-323F	Gr/Yl/Gr/Yl	2.1/2.2	10	10/8.5	30K4063	3.870 3.220
568-0202-222F	Gr/Gr/Gr/Gr	1.8	2	1.6	30K4148	4.310 3.580
568-0301-111F	Rd/Rd/Rd/Rd	5	10	4	30K4181	4.610 3.830
568-0302-222F	Gr/Gr/Gr/Gr	5	12	8	30K4188	4.610 3.830
568-0701-111F	R/G-R/G-R/G-R/G	2	10	5	30K4212	5.750 4.780
568-0704-444F	Yl/Gr-Yl/Gr-Yl/Gr-Yl/Gr	2.1*/2.1*	10	4.3/6.3	30K4221	5.750 4.780

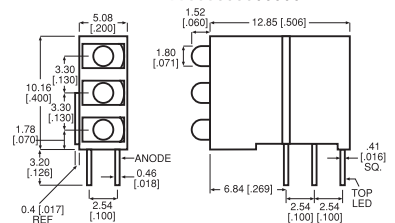
*I_F = 20mA.
(2567)

2mm LED CBI TRI-LEVEL CIRCUIT BOARD INDICATORS



Dialight

- Designed to Accommodate DIN 41494
- Multiple CBIs Form Horizontal LED Arrays on 0.200" (5.08) Center-Lines
- Housing Stand-Offs Facilitate PC Board Cleaning
- Viewing Angle: 70°
- Solderability per MIL-STD-202F, Method 208F



Mfg. Part No. 5700100111F

➔ CONTINUED ➔

CIRCUIT BOARD INDICATORS • THROUGH-HOLE LEDS

PC BOARD MOUNT LEDS (CONT.)

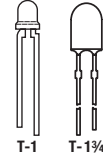
Mfg. Part No.	Fig.	Description	Emitted Color	Lens Type	Peak Wave-length (nm)	Typ. V _f (V)	I _f (Max) (mA)	Luminous Intensity (mcd)	Viewing Angle (2 x ∅)	Stock No.	Price Each	
											1-24	25-99
● SSF-LXH100YD-01	1	T-1 3/4 (5mm)	Yellow	Yellow Diff.	585	2.1	30	30	60	09J9626	0.357	0.297
● SSF-LXH100YD	1	T-1 3/4 (5mm)	Yellow	Yellow Diff.	585	2.1	30	30	60	09J9625	0.357	0.297
● SSF-LXH100GD-01	1	T-1 3/4 (5mm)	Green	Green Diff.	565	2.2	25	30	60	09J9190	0.357	0.297
● SSF-LXH100GD	1	T-1 3/4 (5mm)	Green	Green Diff.	565	2.2	25	30	60	09J9189	0.357	0.297
● SSF-LXH100LID-01	1	T-1 3/4 (5mm)	Red	Red Diff.	635	2.0	30	40	60	09J9620	0.378	0.314
● SSF-LXH100LID	1	T-1 3/4 (5mm)	Red	Red Diff.	635	2.0	30	40	60	09J9194	0.378	0.314
● SSF-LXH100LGD-01	1	T-1 3/4 (5mm)	Green	Green Diff.	565	2.2	25	30	60	09J9619	0.378	0.314
● SSF-LXH100LGD	1	T-1 3/4 (5mm)	Green	Green Diff.	565	2.2	25	30	60	09J9193	0.378	0.314
● SSF-LXH100MID	2	T-1 3/4 (5mm)	Red	Red Diff.	635	2.0	30	30	60	09J9621	0.364	0.303
● SSF-LXH100MYD	2	T-1 3/4 (5mm)	Yellow	Yellow Diff.	585	2.1	30	30	60	09J9623	0.364	0.303
● SSF-LXH100MLID	2	T-1 3/4 (5mm)	Red	Red Diff.	635	2.0	30	30	60	09J9622	0.378	0.314
● SSF-LXH103GD-5V	3	T-1 (3mm)	Green	Green Diff.	565	5.0	12	80	8	09J9629	0.734	0.611
● SSF-LXH103ID	3	T-1 (3mm)	Red	Red Diff.	635	2.1	25	30	60	04M4606	0.346	0.288
● SSF-LXH103YD	3	T-1 (3mm)	Yellow	Yellow Diff.	585	2.1	25	30	60	09J9200	0.346	0.288
● SSF-LXH103GD	3	T-1 (3mm)	Green	Green Diff.	565	2.1	25	30	60	09J9196	0.346	0.288
● SSF-LXH103LID	3	T-1 (3mm)	Red	Red Diff.	635	2.0	30	40	60	09J9199	0.357	0.297
● SSF-LXH103LGD	3	T-1 (3mm)	Green	Green Diff.	565	2.1	25	15	80	09J9198	0.357	0.297
● SSF-LXH104ID	4	T-1 3/4 (5mm)	Red	Red Diff.	635	2.0	30	40	60	09J9202	0.402	0.334
● SSF-LXH104YD	4	T-1 3/4 (5mm)	Yellow	Yellow Diff.	585	2.1	30	30	60	09J9630	0.402	0.334
● SSF-LXH104GD	4	T-1 3/4 (5mm)	Green	Green Diff.	565	2.2	25	30	60	09J9201	0.402	0.334
● SSF-LXH2103LID/4	5	T-1 (3mm)	Red	Red Diff.	635	2.0	30	40	60	09J9205	0.966	0.804
● SSF-LXH2103GGD/4	5	T-1 (3mm)	Green	Green Diff.	565	2.2	25	30	60	09J9204	0.966	0.804
● SSF-LXH2103LID/4	5	T-1 (3mm)	Red	Red Diff.	635	2.0	30	40	60	09J9206	0.990	0.824
● SSF-LXH400ID-5V	6	T-1 3/4 (5mm)	Red	Red Diff.	635	5.0	12	8	60	09J9636	3.100	2.580
● SSF-LXH400ID	6	T-1 3/4 (5mm)	Red	Red Diff.	635	2.0	30	20	60	09J9211	1.810	1.510
● SSF-LXH400YD	6	T-1 3/4 (5mm)	Yellow	Yellow Diff.	585	2.1	30	20	60	09J9637	1.810	1.510
● SSF-LXH400GD	6	T-1 3/4 (5mm)	Green	Green Diff.	565	2.1	25	20	60	09J9210	1.600	1.330
● SSF-LXH22573LGGD	7	2 x 5mm	Green	Green Diff.	565	2.2	25	10	80	09J9631	0.948	0.790
● SSF-LXH25780YD	8	2.5 x 7mm	Yellow	Yellow Diff.	585	2.1	30	9	110	09J9633	0.582	0.484
● SSF-LXH2300LGD-LM	9	T-1 (3mm)	Green	Green Diff.	565	2.2	25	50	60	09J9632	1.230	1.030
● SSF-LXHM250IGGW	10	T-1 3/4 (5mm)	Red/Green	White Diff.	635/565	2.0/2.2	30/25	30/25	60	09J9616	1.230	1.030
● SSF-LXHM250IID	10	T-1 3/4 (5mm)	Red	Red Diff.	635	2.0	30	40	60	09J9617	0.751	0.625
● SSF-LXH101ID-01	11	T-1 3/4 (5mm)	Red	Red Diff.	635	2.0	30	40	60	09J9628	0.564	0.470
● SSF-LXH303ID	12	T-1 (3mm)	Red	Red Diff.	635	2.1	30	40	60	09J9634	0.364	0.303
● SSF-LXH240IID	13	T-1 (3mm)	Red	Red Diff.	635	2.0	30	15	80	09J9208	0.814	0.677
● SSF-LXH240GGD	13	T-1 (3mm)	Green	Green Diff.	565	2.2	25	40	60	09J9207	0.814	0.677

(80593)

OctoLEDs


LUMEX
 Creating LED and LCD Solutions Together™


HIGH-INTENSITY LED LAMPS


Avago
 TECHNOLOGIES


Mfg. Part No.	Emitted Color	Wave-length (nm)	View. Angle (°)	Forward Voltage (V)	Stock No.	Price Each
						1-49
● SML-H1505SIC-TR	Red	635	60	2	01N4692	0.608
● SML-H1505SIUGUBCTR	Red/Blue/Green	635/ 465/ 520	70	2.2/ 3.4/ 3.4	01N4693	1.420
● SML-H1505SIUGUBWTR	Red/Blue/Green	635/ 465/ 520	60	2.2/ 3.4/ 3.4	01N4694	1.420
● SML-H1505SOC-TR	Orange	610	68	2.1	01N4695	0.830
● SML-H1505SUGC-TR	Green	575	68	2	01N4696	0.830
● SML-H1505SYC-TR	Yellow	590	60	2	01N4697	0.608
● SML-H1505UPGC-TR	Green	520	45	3.3	01N4698	0.911
● SML-H1505USBC-TR	Blue	470	40	3.3	01N4699	0.992

(114928)

WARM WHITE LED LAMPS

Avago
 TECHNOLOGIES

Mfg. Part No.	Color	Forward Current (mA)	Luminous Intensity (mcd)	Viewing Angle (°)	Stock No.	Price Each
						1-9
● HLMP-CY11-WZODD	White	30	16000	15	46M5406	1.750

(115459)

T-1 (3mm)

Mfg. Part No.	Color	Luminous Intensity (mcd)	Test Current (mA)	Viewing Angle	Stock No.	Price Each
						1-9
● HLMP-K600	Emerald Green	1	25	60°	39K9991	0.475
● HLMP-K640	Emerald Green	4.2	25	45°	39K9992	0.475
● HLMP-1503	Green	1	10	60°	40K0032	0.285
● HLMP-1790-A00A2	Green	1.1	20	50°	40K0047	0.950
● HLMP-1790	Green	2.3	2	50°	40K0046	0.475
● HLMP-1503-D0000	Green	4.7	25	60°	40K0033	0.333
● HLMP-1520	Green	22	10	45°	40K0034	0.475
● HLMP-1521	Green	22	10	45°	40K0035	0.285
● HLMP-1540	Green	45	20	45°	40K0036	0.380
● HLMP-1700	High Efficiency Red	2.1	2	50°	40K0044	0.475
● HLMP-1301	High Efficiency Red	3.4	10	60°	42K5948	0.285
● HLMP-3301-D0002	High Efficiency Red	2.1	10	60°	40K0050	0.095
● HLMP-1301-E0002	High Efficiency Red	3.4	10	60°	06B3137	0.095
● HLMP-1301-E00A1	High Efficiency Red	3.4	10	60°	06B3138	0.760
● HLMP-3301-F0002	High Efficiency Red	5.4	10	60°	40K0052	0.095
● HLMP-3301-F00B2	High Efficiency Red	5.4	90	60°	40K0051	0.760
● HLMP-1321	High Efficiency Red	30	10	45°	40K0024	0.285
● HLMP-1340	High Efficiency Red	55	20	45°	40K0025	0.380
● HLMP-1700-B00A2	Red	2.1	7	50°	98B4651	0.950
● HLMP-K150	Red	2	1	60°	39K9989	0.475
● HLMP-K155	Red	3	1	60°	39K9990	0.570
● HLMP-K101	Red	45	20	60°	39K9987	0.475
● HLMP-K105	Red	65	20	45°	39K9988	0.380
● HLMP-1719	Yellow	2.1	2	50°	40K0045	0.475

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THROUGH-HOLE LEDS

HIGH-INTENSITY LED LAMPS (CONT.)

Mfg. Part No.	Color	Luminous Intensity (mcd)	Test Current (mA)	Viewing Angle	Stock No.	Price Each 1-9
● HLMP-1401	Yellow	2.2	10	60°	06F6576	0.285
● HLMP-1401-D00A1	Yellow	4	20	60°	40K0027	0.760
● HLMP-1401-D00A2	Yellow	4	20	60°	98B4612	0.760
● HLMP-1420	Yellow	15	10	45°	40K0028	0.475
● HLMP-1421	Yellow	15	10	45°	40K0029	0.285
● HLMP-1440	Yellow	45	20	45°	40K0030	0.380
● HLMP-NL06	Amber	20	30	60°	92F656	0.380

T-1 1/4 (5mm)

● HLMP-EL15-PS000	Amber	765	2	15°	39K9971	0.570
● HLMP-C208-S0000	Amber	3000	2	8°	39K9939	0.333
● HLMP-3416	Yellow	50	60	35°	06F6723	0.285
● HLMP-4740	Green	2.3	2	50°	40K0082	0.475
● HLMP-4740-A00B2	Green	2.3	2	50°	98B4739	0.950
● HLMP-3507	Green	4.2	10	60°	40K0061	0.285
● HLMP-3507-D00B2	Green	4.2	10	60°	40K0062	0.950
● HLMP-3962	Green	10.6	20	60°	40K0077	0.570
● HLMP-3590	Green	55	20	32°	40K0066	0.570
● HLMP-3950-K00B2	Green	265	20	24°	06F6766	1.050
● HLMP-C523	Green	69.8	20	25°	39K9945	0.570
● HLMP-C515	Green	170	20	15°	39K9944	0.570
● HLMP-3950	Green	265	20	24°	42K5960	0.570
● HLMP-D401	Orange	5.4	20	60°	39K9951	0.285
● HLMP-C415	Orange	138	20	15°	39K9943	0.570
● HLMP-3351-D0000	High Efficiency Red	2.1	10	50°	40K0055	0.618
● HLMP-3301-D0000	High Efficiency Red	2.1	10	60°	40K0049	0.333
● HLMP-4700	High Efficiency Red	2.3	2	50°	40K0080	0.475
● HLMP-3301	High Efficiency Red	5.4	10	60°	40K0048	0.285
● HLMP-3762	High Efficiency Red	8.6	20	60°	40K0073	0.570
● HLMP-3750	High Efficiency Red	125	20	24°	42K5949	0.570
● HLMP-3750-L00B2	High Efficiency Red	125	20	24°	06F6755	1.050
● HLMP-C215	High Efficiency Red	138	20	15°	39K9940	0.570
● HLMP-4101	High Efficiency Red	700	20	8°	40K0079	0.570
● HLMP-4700-C00B2	Red	2.3	7	50°	98B4733	0.950
● HLMP-D150	Red	3	1	65°	39K9949	0.475
● HLMP-D155	Red	10	20	24°	39K9950	0.570
● HLMP-3316	Red	60	90	35°	40K0053	0.285
● HLMP-3390	Red	55	20	32°	06F6716	0.570
● HLMP-D101	Red	70	20	65°	39K9947	0.380
● HLMP-C223	Red	90.2	20	25°	39K9941	0.570
● HLMP-D105	Red	240	20	24°	39K9948	0.380
● HLMP-C625-P0000	Red	700	2	25°	39K9946	0.333
● HLMP-C025-P0000	Red	1000	2	25°	39K9938	0.333
● HLMP-EG15-RU000	Red	1300	2	15°	43K7039	0.570
● HLMP-C008-U0000	Red	6000	2	8°	39K9937	0.333
● HLMP-4719	Yellow	2.1	2	50°	40K0081	0.475
● HLMP-3401	Yellow	5.7	10	60°	40K0057	0.285
● HLMP-3401-E00B2	Yellow	18.4	10	60°	66F2764	0.760
● HLMP-3862	Yellow	9.2	20	60°	40K0075	0.570
● HLMP-3490	Yellow	55	20	32°	40K0060	0.570
● HLMP-C323	Yellow	96.2	20	25°	39K9942	0.570
● HLMP-3850	Yellow	140	20	24°	40K0074	0.570
● HLMP-C315	Yellow	147	20	15°	43K7038	0.570
● HLMP-0800	High Efficiency Red/ Green	2.6	20	100°	40K0023	1.050

RECTANGULAR (2 x 5mm)

● HLMP-0504	Green	2.6	20	100°	40K0022	0.950
● HLMP-S501-C0000	Green	4	20	110°	40K0018	0.285
● HLMP-S501	Green	8	20	110°	40K0017	0.285
● HLMP-0301	High Efficiency Red	2.1	20	100°	40K0020	0.950
● HLMP-S201-D0000	High Efficiency Red	3.5	20	110°	40K0015	0.285
● HLMP-S201	High Efficiency Red	4.5	20	110°	40K0014	0.285
● HLMP-S100	Red	7.5	20	110°	40K0013	0.475
● HLMP-0401	Yellow	3.6	20	100°	40K0021	0.950
● HLMP-S301	Yellow	4	20	110°	40K0016	0.285

MOUNTING CLIP

Mfg. Part No.	Description	Stock No.	Price Each 1-9
● HLMP-0103	Black plastic mounting clip and retaining ring	40K0019	0.238

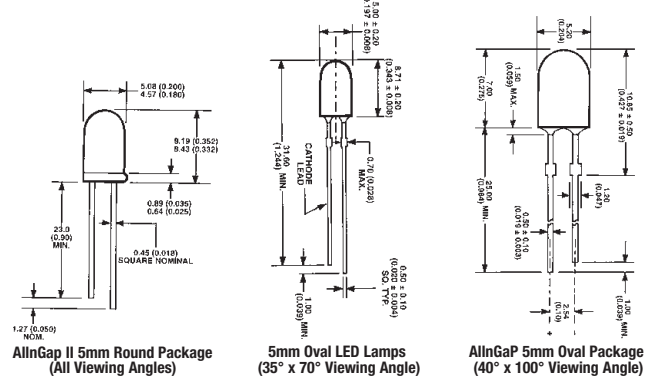
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HIGH-PERFORMANCE LEDS IN ROUND AND OVAL PACKAGES

Just Added

RoHS Compliant Available

AVAGO TECHNOLOGIES



High-brightness 5mm LED lamps feature superior high-temperature and moisture-resistant materials. AllnGaP. Oval frames have perpendicular or parallel lead-frame orientation. All leaded with and without standoffs. Also available in an ammo pack; go online or call Newark.

OVAL 4mm

Mfg. Part No.	Color	Luminous Intensity (mcd)	Wavelength (nm)	Lead Type	Stock No.	Price Each 1-9
● HLMP-LB65-RU0DD	Blue	1150	470	Standoffs	97M3977	1.010
● HLMP-LM65-Z30DD	Green	5040	525	Standoffs	97M3979	1.010
● HLMP-LG65-VY0DD	Red	1990	626	Standoffs	11N9074	0.700

OVAL 5mm

● HLMP-BL06-N0000	Amber	680	592	Straight	27C2749	0.618
● HLMP-AB64-TW0DD	Blue	1660	470	Straight	34P4384	1.010
● HLMP-AB65-TW0DD	Blue	1660	470	Standoffs	11N9064	1.010
● HLMP-HB55-JK0DD	Blue	400	470	Stand-offs	39K9986	1.200
● HLMP-HB65-QU0DD	Blue	1150	470	Standoffs	89M5244	1.090
● HLMP-AM64-140DD	Green	6050	525	Straight	34P4390	1.010
● HLMP-AM65-140DD	Green	6050	525	Standoffs	11N9068	1.010
● HLMP-HM65-Y30DD	Green	5040	525	Standoffs	89M5254	1.090
● HLMP-AD06-P0000	Red	880	630	Straight	39K9801	0.665
● HLMP-BD06-P0000	Red	880	630	Straight	39K9808	0.665
● HLMP-BD16-P0000	Red	880	630	Stand-offs	39K9809	0.665
● HLMP-HG65-VY0DD	Red	2400	626	Standoffs	34P4394	0.700
● HLMP-EH08-X1000	Red-Orange	7200	615	Straight	98B4012	0.618
● HLMP-EH16-UX000	Red Orange	9300	615	Straight	39K9967	0.787
● HLMP-EH16-UX0DD	Red-Orange	3200	615	Straight	27C2851	0.787
● HLMP-EH33-RU000	Red Orange	4200	615	Stand-offs	98B4071	0.656

ROUND 5mm

● HLMP-EL08-T0000	Amber	2170	590	Straight	27C2861	0.380
● HLMP-EL08-VY000	Amber	12000	590	Straight	39K9970	0.570
● HLMP-EL08-WZ000	Amber	4700	590	Straight	98B4144	0.570
● HLMP-EL10-T0000	Amber	2170	590	Straight	27C2867	0.380
● HLMP-EL10-VY000	Amber	3600	590	Stand-offs	98B4156	0.428
● HLMP-EL10-WY0DD	Amber	3600	590	Stand-offs	27C2869	0.428
● HLMP-EL12-VY0DD	Amber	12000	590	Straight	30M1068	0.665
● HLMP-EL12-X10DD	Amber	12000	590	Straight	78M1287	0.787
● HLMP-EL13-X10DD	Amber	12000	590	Standoffs	78M1297	0.831
● HLMP-EL15-TW0DD	Amber	2170	590	Straight	82C5257	0.665
● HLMP-EL15-UX0DD	Amber	2750	590	Straight	82C5259	0.665
● HLMP-EL15-VY000	Amber	3600	590	Straight	82C5275	0.656
● HLMP-EL15-WY0DD	Amber	3600	590	Straight	82C5274	0.656
● HLMP-EL15-VYKDD	Amber	3600	590	Straight	82C5272	0.700
● HLMP-EL17-M0000	Amber	450	590	Straight	27C2887	0.380
● HLMP-EL17-VY000	Amber	3600	590	Stand-offs	82C5280	0.656
● HLMP-EL18-Z1KDD	Amber	21000	590	Straight	45P6712	0.787
● HLMP-EL18-Z1KDD	Amber	21000	590	Standoffs	45P6714	0.787
● HLMP-EL22-UX0DD	Amber	9200	590	Straight	30M1093	0.665
● HLMP-EL23-UX0DD	Amber	9300	590	Standoffs	30M1096	0.665
● HLMP-EL24-L0000	Amber	345	590	Straight	27C2892	0.380
● HLMP-EL24-PS000	Amber	2500	590	Straight	39K9972	0.570
● HLMP-EL24-TW0DD	Amber	2170	590	Straight	82C5299	0.656
● HLMP-EL24-TWKDD	Amber	2170	590	Straight	82C5297	0.700
● HLMP-EL25-SV000	Amber	5500	592	Straight	39K9975	0.743
● HLMP-EL25-TW0DD	Amber	2170	592	Straight	98B4241	0.743
● HLMP-EL26-L0000	Amber	345	590	Straight	27C2907	0.380
● HLMP-EL26-SV0DD	Amber	1650	590	Straight	82C5302	0.665
● HLMP-EL2A-XYKDD	Amber	12000	590	Straight	45P6716	0.831
● HLMP-EL2B-XYKDD	Amber	12000	590	Standoffs	45P6718	0.831
● HLMP-EL30-K0000	Amber	270	590	Straight	27C2911	0.380

➔ CONTINUED ➔

THROUGH-HOLE LEDS

HIGH-PERFORMANCE LEDS IN ROUND AND OVAL PACKAGES (CONT.)

ROUND 5mm

Mfg. Part No.	Color	Luminous Intensity (mcd)	Wavelength (nm)	Lead Type	Stock No.	Price Each
● HLMP-EL30-QT00D	Amber	1000	590	Straight	82C5309	0.665
● HLMP-EL30-SVK00	Amber	1900	590	Straight	63J9283	0.867
● HLMP-EL31-SV000	Amber	5500	592	Straight	39K9978	0.743
● HLMP-EL31-SV00D	Amber	1650	592	Straight	98B4280	0.743
● HLMP-EL32-K0000	Amber	270	590	Straight	27C2924	0.380
● HLMP-EL35-TW00D	Amber	7300	590	Straight	30M1153	0.665
● HLMP-EL37-TW00D	Amber	7200	590	Standoffs	30M1156	0.665
● HLMP-EL3A-WXK0D	Amber	9300	590	Straight	45P6722	0.831
● HLMP-EL3B-WXK0D	Amber	9300	590	Standoffs	45P6726	0.831
● HLMP-EL55-GHK0D	Amber	120	590	Straight	27C2929	0.665
● HLMP-EL55-K000D	Amber	120	590	Straight	27C2930	0.475
● HLMP-WL02	Amber	35	590	Straight	41K9811	0.475
● HLMP-ED16-TW000	Amber	7200	630	Straight	39K9952	0.700
● HLMP-CB13-UX00D	Blue	9300	470	Straight	78M1276	1.090
● HLMP-CB22-SV00D	Blue	5500	470	Straight	78M1277	1.090
● HLMP-CB30-K0000	Blue	310	472	Straight	27C2766	1.270
● HLMP-CB30-M0000	Blue	520	472	Straight	39K9828	1.270
● HLMP-CB34-RU00D	Blue	4200	470	Straight	78M1278	1.090
● HLMP-CE30-SVQ00	Cyan	4200	505	Straight	43K7030	1.410
● HLMP-CM11-Y200D	Green	16000	525	Straight	08J1318	0.504
● HLMP-CM13-Z300D	Green	35000	525	Straight	86M0876	1.090
● HLMP-CM15-S0000	Green	1900	526	Straight	39K9854	1.270
● HLMP-CM15-W0000	Green	5500	526	Straight	39K9859	1.630
● HLMP-CM22-X100D	Green	21000	525	Straight	78M1279	1.090
● HLMP-CM26-X1000	Green	16000	525	Straight	39K9864	1.300
● HLMP-CM30-S0000	Green	1900	526	Straight	39K9871	1.630
● HLMP-CM30-UVA00	Green	5500	526	Straight	39K9878	1.480
● HLMP-CM34-X100D	Green	21000	525	Straight	78M1280	1.090
● HLMP-CM36-X100D	Green	9300	525	Straight	08J1333	1.300
● HLMP-EJ10-X1000	Orange	6200	605	Stand-offs	98B4087	0.618
● HLMP-EJ24-QT000	Orange	1000	605	Straight	98B4108	0.570
● HLMP-EJ30-NR000	Orange	590	605	Straight	98B4121	0.570
● HLMP-EJ30-NR00D	Orange	590	605	Straight	98B4120	0.570
● HLMP-ED16-S0000	Red	1650	630	Straight	27C2794	0.618
● HLMP-ED16-S000D	Red	1650	630	Straight	27C2793	0.618
● HLMP-ED18-TW00D	Red	2170	630	Straight	27C2798	0.700
● HLMP-ED25-R0000	Red	1300	630	Straight	27C2801	0.665
● HLMP-ED25-SV000	Red	5500	630	Straight	39K9954	0.743
● HLMP-ED25-SV00D	Red	1650	630	Straight	27C2802	0.743
● HLMP-ED25-TW000	Red	7200	630	Straight	39K9955	0.787
● HLMP-ED25-TW00D	Red	2170	630	Straight	98B3951	0.787
● HLMP-ED27-SV000	Red	5500	630	Stand-offs	39K9956	0.743
● HLMP-ED27-TW000	Red	7200	630	Stand-offs	39K9957	0.787
● HLMP-ED31-SV000	Red	5500	630	Straight	39K9959	0.743
● HLMP-ED33-Q0000	Red	1000	630	Straight	27C2814	0.665
● HLMP-ED33-SV000	Red	5500	630	Stand-offs	39K9960	0.743
● HLMP-ED33-SV00D	Red	1650	630	Straight	27C2816	0.743
● HLMP-ED57-LPT00	Red	345	630	Straight	30C3593	0.656
● HLMP-EG08-T0000	Red	2170	626	Straight	27C2819	0.380
● HLMP-EG08-WZ00D	Red	4700	626	Straight	98B3974	0.570
● HLMP-EG08-X100D	Red	6200	626	Straight	98B3976	0.618
● HLMP-EG10-T0000	Red	2170	626	Stand-offs	27C2822	0.380
● HLMP-EG10-X1000	Red	6200	626	Stand-offs	98B3983	0.618
● HLMP-EG12-UX00D	Red	9200	626	straight	30M1303	0.665
● HLMP-EG12-VY00D	Red	12000	626	Straight	50M3903	0.656
● HLMP-EG13-VY00D	Red	12000	626	Standoffs	50M3904	0.656
● HLMP-EG15-N0000	Red	590	626	Straight	27C2824	0.380
● HLMP-EG15-TW000	Red	2170	626	Straight	82C5228	0.618
● HLMP-EG15-TW00D	Red	2170	626	Straight	82C5227	0.618
● HLMP-EG15-UX000	Red	2750	626	Straight	82C5231	0.665
● HLMP-EG15-UX00D	Red	3200	626	Straight	94H9646	0.196
● HLMP-EG17-N0000	Red	590	626	Stand-offs	27C2828	0.380
● HLMP-EG17-TW000	Red	2170	626	Stand-offs	82C5233	0.618
● HLMP-EG17-UX000	Red	2750	626	Stand-offs	82C5235	0.665
● HLMP-EG1A-Z100D	Red	21000	626	Straight	45P6704	0.743
● HLMP-EG1B-Z100D	Red	21000	626	Standoffs	45P6705	0.743
● HLMP-EG22-UX00D	Red	9300	625	Straight	30M1006	0.665
● HLMP-EG23-UX00D	Red	9300	626	Standoffs	30M1008	0.665
● HLMP-EG24-M0000	Red	450	626	Straight	27C2832	0.380
● HLMP-EG24-PS000	Red	2500	626	Straight	39K9964	0.475
● HLMP-EG24-QT000	Red	1000	626	Straight	98B3986	0.570
● HLMP-EG26-M0000	Red	450	626	Stand-offs	27C2836	0.380
● HLMP-EG2A-XY00D	Red	12000	626	Straight	45P6706	0.743

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HIGH-PERFORMANCE LEDS IN ROUND AND OVAL PACKAGES (CONT.)

ROUND 5mm

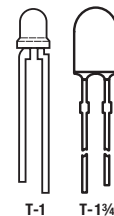
Mfg. Part No.	Color	Luminous Intensity (mcd)	Wavelength (nm)	Lead Type	Stock No.	Price Each
● HLMP-EG2B-XY00D	Red	12000	626	Standoffs	45P6707	0.743
● HLMP-EG30-K0000	Red	270	626	Straight	27C2838	0.380
● HLMP-EG30-NR00D	Red	590	626	Straight	98B3995	0.570
● HLMP-EG30-QT000	Red	1000	626	Straight	82C5238	0.618
● HLMP-EG30-QT00D	Red	1000	626	Straight	82C5237	0.618
● HLMP-EG32-K0000	Red	270	626	Stand-offs	27C2842	0.380
● HLMP-EG32-MQ00D	Red	450	626	Stand-offs	27C2843	0.475
● HLMP-EG32-NR00D	Red	590	626	Stand-offs	27C2844	0.475
● HLMP-EG32-QT000	Red	1000	626	Stand-offs	82C5239	0.618
● HLMP-EG35-TW00D	Red	7300	626	Straight	30M1020	0.665
● HLMP-EG37-TW00D	Red	7200	626	Standoffs	30M1022	0.665
● HLMP-EG3A-WX00D	Red	9300	626	Straight	45P6709	0.743
● HLMP-EG3B-WX00D	Red	9300	626	Standoffs	45P6711	0.743
● HLMP-EG55-GK00D	Red	120	626	Straight	27C2845	0.428
● HLMP-EG55-HJ00D	Red	155	626	Straight	27C2847	0.665
● HLMP-WG02	Red	26	626	Straight	41K9810	0.475
● HLMP-EH12-VY00D	Red Orange	12000	615	Straight	30M1028	0.665
● HLMP-EH13-VY00D	Red Orange	12000	615	Standoffs	30M1029	0.665
● HLMP-EH15-RU00D	Red-Orange	1500	615	Straight	27C2850	0.570
● HLMP-EH15-TW000	Red-Orange	2500	615	Straight	82C5240	0.665
● HLMP-EH15-UX000	Red-Orange	3200	615	Straight	82C5242	0.665
● HLMP-EH17-TW000	Red-Orange	2500	615	Stand-offs	82C5243	0.618
● HLMP-EH17-UX000	Red-Orange	3200	615	Stand-offs	82C5245	0.665
● HLMP-EH18-UX00D	Red-Orange	3200	615	Straight	27C2853	0.743
● HLMP-EH22-TW00D	Red-orange	7200	615	Straight	30M1035	0.665
● HLMP-EH23-TW00D	Red Orange	7200	615	Standoffs	30M1036	0.665
● HLMP-EH24-QT000	Red-Orange	1150	615	Straight	98B4030	0.570
● HLMP-EH24-SV000	Red-Orange	1150	615	Straight	82C5246	0.665
● HLMP-EH25-TW000	Red Orange	7200	615	Straight	98B4038	0.787
● HLMP-EH25-TW00D	Red-Orange	2500	615	Straight	98B4037	0.787
● HLMP-EH26-SV000	Red-Orange	1900	615	Stand-offs	82C5247	0.665
● HLMP-EH30-QT000	Red-Orange	1150	615	Straight	82C5248	0.665
● HLMP-EH30-RU000	Red-Orange	1500	615	Straight	82C5250	0.665
● HLMP-EH31-SV000	Red Orange	5500	615	Straight	39K9969	0.787
● HLMP-EH32-QT000	Red-Orange	1150	615	Straight	82C5251	0.665
● HLMP-EH32-RU000	Red-Orange	1500	615	Straight	82C5252	0.665
● HLMP-EH35-SV00D	Red Orange	5500	615	Straight	30M1044	0.665
● HLMP-EH37-SV00D	Red Orange	5500	615	Standoffs	30M1045	0.665

(29482)

5V, 12V INTEGRATED RESISTOR LAMPS

Features:

- Integral Current Limiting Resistor
- TTL Compatible
- Wide Viewing Angle: 60°
- Tinted/Diffused Lamps



T-1 T-1 1/4

AVAGO
TECHNOLOGIES


5V SERIES

Mfg. Part No.	Color	Luminous Intensity Typ. @ 20mA (mcd)	Package	Stock No.	Price Each
● HLMP-1600	Red	2.1	T-1	40K0037	0.684 0.420
● HLMP-1620	Yellow	2.2	T-1	40K0039	0.684 0.420
● HLMP-1640	Green	1.6	T-1	40K0041	0.684 0.420
● HLMP-3600	Red	2.1	T-1 1/4	40K0067	0.684 0.420
● HLMP-3650	Yellow	2.2	T-1 1/4	40K0070	0.684 0.420
● HLMP-3650-C00B2	Yellow Diffused	2.2	T-1 1/4	06F6748	1.140 0.700
● HLMP-3680	Green	1.6	T-1 1/4	40K0072	0.684 0.420

12V SERIES

● HLMP-1601	Red	2.1	T-1	40K0038	0.684 0.420
● HLMP-1621	Yellow	2.2	T-1	40K0040	0.730 0.448
● HLMP-1641	Green	1.6	T-1	40K0043	0.684 0.420
● HLMP-3601	Red	2.1	T-1 1/4	40K0069	0.684 0.420
● HLMP-3651	Yellow	2.2	T-1 1/4	40K0071	0.684 0.420

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THROUGH-HOLE LEDS

SUBMINIATURE HIGH PERFORMANCE LAMPS

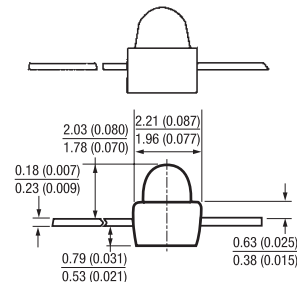
Just Added



AVAGO TECHNOLOGIES

Features:

- **HLMX-PXXXX** Flat Top Lamps Ideal for Backlighting and Light Piping Applications
- **HLMX-QXXXX** Dome Lamps Ideal for High Brightness Applications
- Wide Range of Drive Currents
- Ideal for Space Limited Applications
- Axial Leads
- Available with Lead Configurations for Surface Mount and Through-Hole PC Board Mounting
- Tape & Reel Qty. 1500



15° VIEWING ANGLE

Mfg. Part No.	Color	Viewing Angle	Luminous Intensity @20mA (mcd)	Tape Cut Stock No.	Price Each	Tape & Reel Stock No.	Price Each
● HLMA-QL00	Amber	15°	500	39K9799	0.570	98B3902	0.195
● HLMT-QL00	Amber	15°	1000	06F6882	0.760	98B4970	0.234
● HLMA-QL00-S0011	Amber	15°	500	...	0.182	98B3896	0.182
● HLMP-Q106	Deep Red	15°	400	06F6482	0.713	27C2947	0.195
● HLMA-QH00	Red Orange	15°	500	06F6402	0.570	43K7018	0.182

28° VIEWING ANGLE

● HLMP-6305	High Efficiency Red	28°	10	40K0085	0.475	98B4799	0.156
● HLMP-6305-L0021	High Efficiency Red	28°	40	98B4801	0.570	...	...
● HLMP-6505	High Performance Green	28°	10	40K0090	0.475	98B4865	0.156
● HLMP-6405	Yellow	28°	3.6	40K0087	0.475	98B4825	0.156

90° VIEWING ANGLE

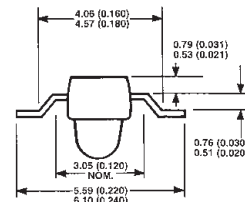
● HLMP-Q150	Double Hetero Red	90°	1	40K0006	0.618	98B4525	0.195
● HLMP-7000	High Efficiency Red	90°	0.4	06F6859	0.570	98B4925	0.377
● HLMP-7000-D0011	High Efficiency Red	90°	0.4	12J4829	1.510	...	...
● HLMP-6300	High Efficiency Red	90°	1	40K0084	0.475	98B4772	0.156
● HLMP-6300-F0010	High Efficiency Red	90°	10	98B4771	0.713	...	...
● HLMP-6620	High Efficiency Red	90°	2	06F6836	0.950	98B4888	0.286
● HLMP-7040	High-Performance Green	90°	0.4	06F6862	0.570	98B4944	0.221
● HLMP-6500	High Performance Green	90°	7	40K0088	0.475	98B4837	0.156
● HLMP-6720	Yellow	90°	2	06F6846	0.950	...	...
● HLMP-6720-F0010	Yellow	90°	2	90B1107	1.190	...	...
● HLMP-6820	High-Performance Green	90°	2	40K0093	0.950	98B4916	0.286
● HLMP-6000	Red	90°	0.63	40K0083	0.570	98B4749	0.182
● HLMP-7019	Yellow	90°	0.4	40K0095	0.570	98B4935	0.221
● HLMP-6400	Yellow	90°	9	43K7064	0.475	98B4811	0.156

125° VIEWING ANGLE

● HLMA-PL00	Amber	125°	75	06F6400	0.570	98B3867	0.182
● HLMT-PL00	Amber	125°	150	06F6880	0.760	98B4954	0.234
● HLMA-PH00	Red Orange	125°	75	39K9798	0.570	98B3858	0.182
● HLMT-PH00-P0011	Red Orange	125°	120	40K0096	0.855	...	...
● HLMP-P505-G0011	High Performance Green	125°	6.3	12J4826	0.665	...	...

(2636)

SUBMINIATURE SOLID-STATE DOME LAMPS



AVAGO TECHNOLOGIES



UNTINTED/NON-DIFFUSED - HIGH-BRIGHTNESS

Mfg. Part No.	Color	Luminous Intensity Typ. @ 10mA (mcd)	Typical V _f @ 10mA (V)	Stock No.	Price Each
● HLMP-6305	High Efficiency Red	10	1.5	40K0085	0.475
● HLMP-6305-L0021	High Efficiency Red	40	1.5	98B4801	0.570
● HLMP-6405	Yellow	3.6	2	40K0087	0.475
● HLMP-6405-J0011	Yellow	20	2	15M9476	0.456
● HLMP-6405-J0021	Yellow	20	2	80K4884	0.456
● HLMP-6505	High Performance Green	10	2.1	40K0090	0.475

UNTINTED/DIFFUSED

● HLMP-6620	High Efficiency Red	2	1.8	06F6836	0.950
● HLMP-6620-F0010	High Efficiency Red	2	1.8	40K0091	0.950
● HLMP-6820	High-Performance Green	2	2.1	40K0093	0.950
● HLMP-6820-F0010	High-Performance Green	2	2.1	98B4915	0.950

TINTED/DIFFUSED

● HLMP-6000	Red	0.63	2	40K0083	0.570
● HLMP-6300	High Efficiency Red	1	1.5	40K0084	0.475
● HLMP-6300-F0010	High Efficiency Red	10	1.5	98B4771	0.713
● HLMP-6400	Yellow	9	2	43K7064	0.475
● HLMP-6400-F0010	Yellow	9	2	40K0086	0.570
● HLMP-6500	High Performance Green	7	2.1	40K0088	0.475
● HLMP-6500-F0010	High Performance Green	7	2.1	40K0089	0.570
● HLMP-7000	High Efficiency Red	0.4	1.5	06F6859	0.570
● HLMP-7019	Yellow	0.4	2	40K0095	0.570
● HLMP-7040	High-Performance Green	0.4	2.1	06F6862	0.570
● HLMP-Q150	Double Hetero Red	1	2.2	40K0006	0.618

(2638)

POWER PLCC-4 SMT LEDs



AVAGO TECHNOLOGIES

Features

- Industry Standard PLCC 4 platform (3.2 x 2.8 x 1.9 mm)
- High reliability LED package due to enhanced silicone resin material
- Mid-power intensity brightness with optimum flux performance using AlInGaP chip technologies
- High optical efficiency
- Low thermal resistance
- Super wide viewing angle at 120 degrees
- Longer life time with minimum degradation due to enhanced Silicone resin material
- JEDEC MSL 2a

Applications

- Exterior automotive
- Electronic signs and signals
- Office automation, home appliances, industrial equipment

Mnf. Part No.	Color	Wavelength (nm)	Lum. Flux (lm)	Forward Voltage (V)	Stock No.	Price
● ASMT-QHB2-FEFOE	Amber	617	14	2.7	34M3467	0.363
● ASMT-QBBE-N0BOE	Blue	459	7	3.6	73M8848	1.400
● ASMT-QRB2-FCDOE	Red	624	9.8	3.1	34M3468	0.363
● ASMT-QRB2-FCDOE	Red	624	9.8	3.1	50M2971	0.583
● ASMT-QHB2-FEFOE	Red Orange	617	14	3.25	50M2970	0.583
● ASMT-QWBE-NFHOE	Cool White	...	33	3.6	73M8849	1.400
● ASMT-QYBE-NEG0E	Warm White	...	25.5	3.6	73M8850	1.460
● ASMT-QWB2-NEFOE	White	...	17	3.6	34M3469	0.769
● ASMT-QWB2-NEFOE	White	...	17	3.6	50M2972	1.240

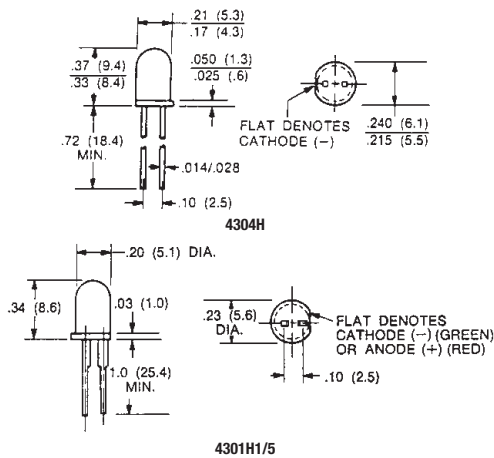
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(148857)

THROUGH-HOLE LEDS

4304H AND 4301H1/5
SERIES T-1 3/4 SUPER
BRITE LED LAMPS

LED lamps with 5mm T-1 3/4 Super Brite LEDs. **4304 series** lamps feature high-intensity light output, wide viewing angle and diffused package type. **Mfg. Part No. 4301H1/5** features red and green in the same two-lead package. Chips are brightness-matched for uniform red and green light output. Continuous forward current: 25mA max.

Mfg. Part No.	Emitted Color	View Angle (°)	Luminous Intensity Typ. (mcd)	Wavelength (nm)	Forward Voltage Typ. (V)	Stock No.	Price Each	
							1-24	25-49
● 4301H1/1	Red	60	20	625	2	93K6777	0.980	0.896
● 4301H1/5	Red/Green	50	25	650	2.2	95F9397	0.683	0.624
● 4304H1	Red	65	10	650	2	93K6988	0.210	0.192
● 4304H5	Green	75	10	563	2.1	93K6989	0.210	0.192
● 4304H7	Yellow	65	10	585	2.1	16M1520	0.210	0.192
● 4305H5	Green	30	100	563	2.2	18M1287	0.210	0.192
● 4305H7	Yellow	30	160	585	2.2	93F3520	0.210	0.192
● 4308H1	Red	24	20	645	1.8	93K6779	0.613	0.560

(35779)

CREE 3mm ROUND,
HIGH BRIGHTNESS LEDS

Round LEDs offer superior light output for excellent readability in sunlight and dependable performance. They provide extremely stable light output over long periods of time. These lamps are made with an advanced optical-grade epoxy that offers superior high-temperature and high-moisture-resistance performance in lighting and illumination applications.

Mfg. Part No.	Luminous Intensity (lm)	Color	Viewing Angle (°)	Stock No.	Price Each
					1-24
● C374T-WNN-CW020151	12000	Cool White	25	04R6666	0.495
● C374T-WNS-CW020151	12000	Cool White	25	04R6667	0.495
● C374T-WPN-CV0Y0151	8200	Cool White	35	04R6668	0.495
● C374T-WPS-CV0Y0151	8200	Cool White	35	04R6669	0.495
● C374T-WQN-CT0W0151	4180	Cool White	65	04R6670	0.495
● C374T-WQS-CT0W0151	4180	Cool White	65	04R6671	0.495

(148704)

CREE 5mm ROUND,
HIGH BRIGHTNESS
LEDs

Applications:

- Advertising signs
- Indicators
- Traffic Lights
- Automotive Lighting



These round LED families offer superior light output for excellent readability in outdoor applications. The lamps are made with an advanced optical-grade epoxy that offers superior high-temperature and high-moisture resistance performance in outdoor sign and signal applications. The encapsulation resin contains UV inhibitors to minimize the effects of long-term exposure to direct sunlight, resulting in stable light output over the life of the LED.

Mfg. Part No.	Color	Luminous Intensity (lm)	Wavelength (nm)	Viewing Angle (°)	Stock No.	Price Each
						1-24
● C503B-BAS-CY0C0461	Blue	11000	470	15	04R6673	0.495
● C503B-BAN-CY0C0461	Blue	11000	470	15	04R6672	0.495
● C503B-BCS-CV0Z0461	Blue	4100	470	30	04R6675	0.495
● C503B-BCN-CV0Z0461	Blue	4100	470	30	04R6674	0.495

➔ CONTINUED ➔

CREE 5mm ROUND, HIGH BRIGHTNESS LEDS (CONT.)

Mfg. Part No.	Color	Luminous Intensity (lm)	Wavelength (nm)	Viewing Angle (°)	Stock No.	Price Each
						1-24
● C503B-GAS-CB0F0791	Green	34000	527	15	04R6677	0.545
● C503B-GAN-CB0F0791	Green	34000	527	15	04R6676	0.545
● C503B-GCS-CY0C0791	Green	12500	527	30	04R6679	0.545
● C503B-GCN-CY0C0791	Green	12500	527	30	04R6678	0.545
● C503C-WAS-CBADA151	White	24000	...	15	04R6681	0.495
● C503C-WAN-CBADA151	White	24000	...	15	04R6680	0.495
● C513A-WSN-CV0Y0151	White	8200	...	55	04R6682	0.495
● C513A-WSS-CV0Y0151	White	8200	...	55	04R6683	0.495
● C503B-RAS-CY0B0AA1	Red	12000	624	15	06R2522	0.248
● C503B-RAN-CY0B0AA1	Red	12000	624	15	08R2969	0.248
● C503B-RBN-CW0Z0AA1	Red	5000	630	23	02P7158	0.248
● C503B-RCS-CW0Z0AA1	Red	5100	624	30	08R2999	0.248
● C503B-RCN-CW0Z0AA1	Red	5100	624	30	08R2993	0.248
● LC503UYL1-23Q-A-00001	Red	4800	624	23	02P7164	0.248
● LC503UYL1-30P-A-00001	Red	4800	624	30	02P7165	0.248
● C503B-AAS-CY0B0251	Amber	13000	591	15	08R2880	0.248
● C503B-AAN-CY0B0251	Amber	13000	591	15	08R2874	0.248
● LC503UYL1-30Q-A-00001	Amber	4800	596	30	02P7166	0.248

(132434)

CREE HIGH BRIGHTNESS
PLCC SMD LEDs

Applications:

- Indicators
- Illuminations
- LCD Backlights
- Automobile Applications
- Color Displays



PLCC SMD LED

Mfg. Part No.	Color	Luminous Intensity (mcd)	Wavelength (nm)	Viewing Angle (°)	Stock No.	Price Each
						1-24
● LM1-EBL1-01-N2-00001	Blue	320	470	120	02P7167	0.476
● LM1-EBL1-11-N2-00001	Blue	400	470	120	02P7168	0.491
● LM1-EPG1-01-N2-00001	Green	900	527	120	02P7169	0.507
● LM1-EPG1-11-N2-00001	Green	1100	527	120	02P7170	0.523
● LM1-EWN1-01-N2-00001	White	1000	...	120	02P7171	0.634
● LM1-EWN1-11-N2-00001	White	1400	...	120	02P7172	0.634
● LM1-UHR1-11-N1-00001	Red	1600	624	120	02P7174	0.317
● LM1-JYL1-01-N1-00001	Amber	600	591	120	02P7175	0.301
● LM1-JYL1-11-N1-00001	Amber	1500	591	120	02P7176	0.317
● LP6-EWN1-03-N3-00001	White	11000	...	120	02P7184	1.220

PLCC4 SMD LED

Mfg. Part No.	Color	Luminous Intensity (mcd)	Viewing Angle (°)	Stock No.	Price Each
					1-24
● CLA2A-WKW-CXBZ0153	Cool White	5600	120	04R6661	0.697
● CLM4S-DKB-CDGMDDD3	Red/Green	450	120	04R6662	0.792
● CLP6B-MKW-CB0D0133	Warm White	14000	120	04R6663	1.140

PLCC6 SMD LED

Mfg. Part No.	Color	Luminous Intensity (mcd)	Viewing Angle (°)	Stock No.	Price Each
					1-24
● CLP6B-MKW-CB0D0133	Warm White	14000	120	04R6663	1.140

(132645)

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(148859)

THROUGH-HOLE LEDs

CREE P4 LEDs - SURFACE MOUNT

Applications:

- Advertising Signs
- Indicators
- Gaming Machines
- Automotive Lighting

Specifications:

- 7.6 x 7.6 mm - Package Type
- 60°, 90°, 120°, 130°

This revolutionary package design allows the lighting designer to reduce the number of LEDs required and provide a more uniform and unique illuminated appearance than with other LED solutions. Easily coupled with reflectors or lenses to efficiently distribute light and provide the desired lit appearance.

COLOR - VIEWING ANGLE 120°

Mfg. Part No.	Color	Lum. Flux Typ. (lm)	Wavelength (nm)	VF Typ. (V)	Stock No.	Price Each
● LP379PBL1-C0G-03-00001	Blue	0.8	470	3.6	02P7180	0.397
● CP42S-GKS-CE0H0694	Green	2	527	3.6	09R2810	0.381
● CP42B-RKS-CLOP0A4	Red	6	624	2.5	73P7797	0.305
● CP42B-AKS-CM0Q0264	Amber	7	591	2.5	08R2782	0.305

WHITE

Mfg. Part No.	Color	Luminous Flux (lm)	Viewing Angle (°)	Color Temp. Range	Stock No.	Price Each
● LP368PWN1-D0G-00001	White	1.1	130	4600 15000	02P7177	0.549
● CP41B-WES-CK0P0154	White	7	60	4600 ...	04R6664	0.519
● CP41B-WGS-CK0P0154	White	7	90	4600 ...	04R6665	0.519

(133064)



Just Added

521 SERIES 5mm DIAMETER LEDs (CONT.)

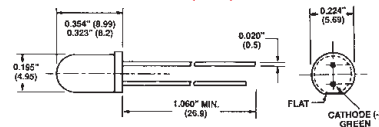


Fig. 4

5mm diameter LED lamps available in diffused, non-diffused and water-clear high-brightness lens. Two and three-leaded bicolors, resistor for 5V operation and 2 x 7mm rectangular LEDs also available. Viewing angle $\pm 30^\circ$.

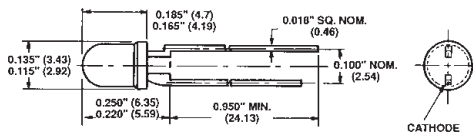
Mfg. Part No.	Fig.	Color LED/Lens	V _F (V)	Luminous Intensity (mcd)	Stock No.	Price Each
● 521-9183F	3*	Red/Diffused	5.0	8.0	30K0558	0.924 0.768
● 521-9240F	3	Red/Diffused	2.0	6.3	30K0568	0.462 0.384
● 521-9246F	3	Red/Diffused	2.2	7	30K0569	0.694 0.577
● 521-9247F	3	Red/Non-Diff.	2.2	60	30K0570	0.566 0.470
● 521-9248F	3	Yellow/Diffused	2.2	8	30K0571	0.566 0.470
● 521-9250F	3	Green/Diffused	2.3	5.2	30K0573	0.694 0.577
● 521-9264F	1	Red/Diffused	1.9	5	30K0575	0.660 0.549
● 521-9265F	1	Yellow/Diffused	2.1	5	30K0576	0.924 0.768
● 521-9266F	1	Green/Diffused	2.3	2.5	30K0577	0.924 0.768
● 521-9270F	3	Green/Diffused	2.4	8	30K0578	0.694 0.577
● 521-9271F	3	Yellow/Diffused	2.4	6	30K0579	0.471 0.392
● 521-9320F	3	Red/Diffused	1.8	2	30K0583	0.924 0.768
● 521-9321F	3	Yellow/Diffused	1.9	1.8	30K0584	0.924 0.768
● 521-9327F	3	Green/Diffused	1.8	1.8	30K0590	0.362 0.301
● 521-9332F	1	Green/Diffused	2.2	3.7	30K0591	0.924 0.768
● 521-9450F	2	Red/Green Diff.	2.1/2.3	5/8	30K0606	1.650 1.370
● 521-9452F	1	Yellow	2.1	3.7	30K0607	0.346 0.288
● 521-9462F	4	Red/Green Diff.	1.8/2.1	90/40	30K0616	1.450 1.210
● 521-9464F	3	Red/Water-Clear	2.2	125	30K0617	0.503 0.418
● 521-9465F	3	Green/Water-Clear	2.3	120	30K0618	1.030 0.851
● 521-9466F	3	Yellow/Water-Clear	2.2	140	30K0619	1.030 0.851
● 521-9704F	3	Orange/Diff.	1.9	7	30K0646	1.590 1.320
● 521-9322F	...	Yellow/Diffused	7.5	3.7	30K0585	1.030 0.851
● 521-9323F	...	Green/Diffused	7.5	5.6	30K0586	1.030 0.851
● 521-9724F	...	Yellow/Green/Diff.	1.8/2.1	2.5/2.5	30K0651	1.520 1.260

*Lead diameter: 0.25".
(2554)

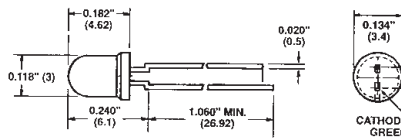
521 SERIES 3mm DIAMETER LEDs



Dialight



Single Color



Red/Green

3mm subminiature LED lamps are ideal where space is limited. Diffused lens available in green, yellow, red, orange and bicolors red/green, yellow/green. Single LEDs provide multiple colors. Use low-current (2mA) where power is limited. Viewing angle $\pm 30^\circ$. Snap mount Clip: 515-0006F.

Mfg. Part No.	Color LED/Lens	V _F (V)	Luminous Intensity (mcd)	I _F (mA)	Stock No.	Price Each
● 521-9210F	Green Diffused	2.3	12.6	10	30K0564	0.700 0.586
● 521-9211F	Yellow	2.2	10	10	30K0565	0.700 0.586
● 521-9216F	Red Diffused	2.2	10	10	30K0567	0.700 0.586
● 521-9498F	Orange Diffused	2.2	7	10	30K0624	0.457 0.383
● 521-9325F	Yellow/Diffused	1.9	5	2	30K0588	1.090 0.910
● 521-9324F	Red Diffused	1.8	1.6	2	30K0587	1.090 0.910
● 521-9326F	Green Diffused	1.8	1.6	2	30K0589	1.090 0.910
● 521-9459F	Red/Green Diffused	2/2.1	4.7/10	10	30K0613	1.540 1.290
● 521-9628F	Red/Green Diffused	1.8/2.1	12.6/3.7	20	30K0632	0.700 0.586
● 521-9478F	Yellow/Green Diffused	2.1	4.3/6.3	10	30K0620	1.540 1.290

(2553)

521 SERIES 5mm DIAMETER LEDs



Dialight

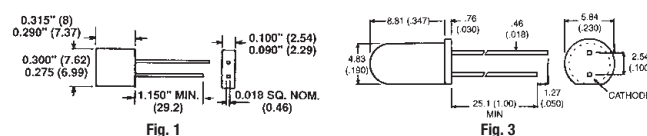


Fig. 1

Fig. 3

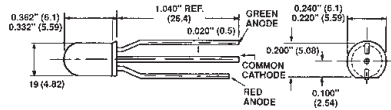


Fig. 2

➤ CONTINUED ➤

InspirationLEDs

Features:

- Power Dissipation: 120 mW
- Operating Temperature Range: -40°C to +85°C
- Forward Current: 100 mA



Creating LED and LCD Solutions Together™



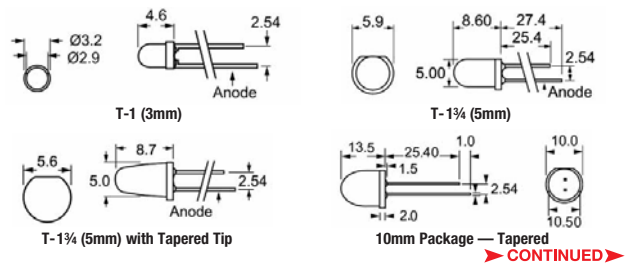
Mfg. Part No.	Forward Voltage (V)	Viewing Angle	Package	Stock No.	Price Each
● SSL-LX5093PC	4	20°	T-5	01N4703	1.090
● SSL-LX5093TC	4	20°	T-5	01N4704	1.090
● SSL-LX5093VC	4	20°	T-5	01N4705	1.010

(115446)

HIGH-BRIGHTNESS LEDs



Creating LED and LCD Solutions Together™



➤ CONTINUED ➤

THROUGH-HOLE LEDS

HIGH-BRIGHTNESS LEDS (CONT.)

T-1 (3mm)

Mfg. Part No.	Emitted Color	Wave-length (nm)	Luminous Intensity (mcd)	View. Angle (°)	Stock No.	Price Each
● SSL-LX3044S0C	Super Orange	610	2500	30	09J9491	0.639

T-1 1/4 (5mm)

● SSL-LX5093SYC	Super Yellow	590	1000	30	09J9322	0.617
● SSL-LX5093S0C	Super Orange	610	2500	30	67K1169	0.639
● SSL-LX5093SRC/E	Super Red	660	3500	30	09J9320	0.602
● SSL-LX5093SRC/DU	Red	660	1300	30	20J2454	0.254

➤ CONTINUED ➤

HIGH-BRIGHTNESS LEDS (CONT.)

T-1 1/4 (5mm)

Mfg. Part No.	Emitted Color	Wave-length (nm)	Luminous Intensity (mcd)	View. Angle (°)	Stock No.	Price Each
● SSL-LX5093SRC/DV	Super Red	660	1600	30	09J9492	0.283
● SSL-LX5093SRC/DW	Super Red	660	2000	30	58K2374	0.588

T-1 1/4 (5mm) WITH TAPERED TIP

● SSL-LX5093XRC/4	Red	660	2500	20	09J9324	0.661
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10mm (T-3-1/4) PACKAGE — TAPERED

● SSL-LX100133XYC/B	Super Bright Yellow	595	2500	6	60K6944	0.683
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LEDS

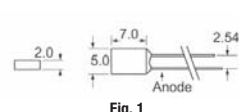


Fig. 1

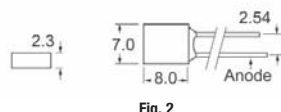


Fig. 2

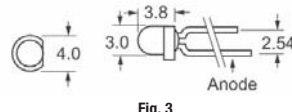


Fig. 3

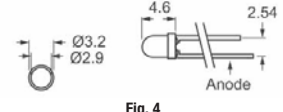


Fig. 4

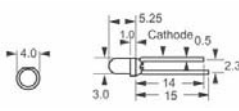


Fig. 5

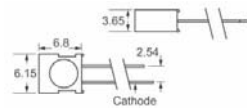


Fig. 6

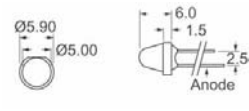


Fig. 7

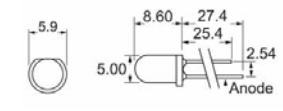


Fig. 8

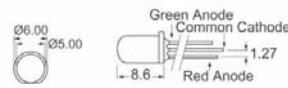


Fig. 9

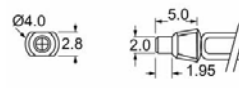


Fig. 10

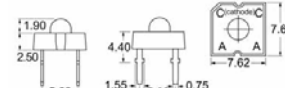


Fig. 11

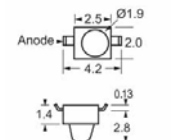


Fig. 12



Fig. 13

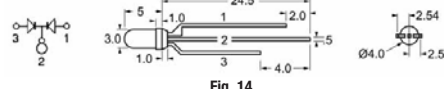


Fig. 14

Mfg. Part No.	Fig.	Description	Emitted Color	Lens Type	Wavelength (nm)	I _F (Max) (mA)	V _F (V)	Stock No.	Price Each	
									1-9	10-99
● SSL-LX100T123SIC	...	10mm	Red	Water Clear	636	500	3	84M8369	7.920	6.500
● SSL-LX100T123SYC	...	10mm	Red	Water Clear	590	500	3	84M8371	7.920	6.500
● SSL-LX100T123UPGC	...	10mm	Green	Water Clear	525	500	3	84M8367	11.520	9.450
● SSL-LX100T123USBC	...	10mm	Blue	Water Clear	470	500	4	01N4702	7.730	6.340
● SSL-LX100T123UWC	...	10mm	White	Water Clear	...	500	4	84M8365	11.520	9.450
● SSL-LX2573SRD	1	2mmX5mm	Sup. Red	Red Diff.	660	30	1.7	09J9507	0.218	0.179
● SSL-LX2573ID	1	2mmX5mm	Red	Red Diff.	635	30	2	09J9274	0.140	0.115
● SSL-LX2573AD	1	2mmX5mm	Amber	Amber Diff.	605	30	2	09J9272	0.143	0.117
● SSL-LX2573PGD	1	2mmX5mm	Pure Green	Green Diff.	555	25	2.1	09J9506	0.143	0.117
● SSL-LX2573YD	1	2mmX5mm	Yellow	Yellow Diff.	585	150	2.1	67K1166	0.143	0.117
● SSL-LX25783ID	2	2.3mmX8mm	Red	Red Diff.	635	30	2	09J9278	0.157	0.129
● SSL-LX25783GD	2	2.3mmX8mm	Green	Green Diff.	565	25	2.2	67K1167	0.143	0.117
● SSL-LX3034YD	3	T-1 (3mm)	Yellow	Yellow Diff.	585	30	2.1	09J9509	0.163	0.134
● SSL-LX3034GD	3	T-1 (3mm)	Green	Green Diff.	565	25	2.2	58K2368	0.143	0.117
● SSL-LX3044ID-12V	4	T-1 (3mm)	Red	Red Diff.	635	12	2	09J9513	0.285	0.234
● SSL-LX3044YD-12V	4	T-1 (3mm)	Yellow	Yellow Diff.	585	12	2.1	58K2370	0.285	0.234
● SSL-LX3044GD-12V	4	T-1 (3mm)	Green	Green Diff.	565	12	2.2	09J9511	0.285	0.234
● SSL-LX3044ID-5V	4	T-1 (3mm)	Red	Red Diff.	635	12	5	09J9514	0.285	0.234
● SSL-LX3044YD-5V	4	T-1 (3mm)	Yellow	Yellow Diff.	585	12	5	09J9518	0.285	0.234
● SSL-LX3044GD-5V	4	T-1 (3mm)	Green	Green Diff.	565	12	5	09J9512	0.285	0.234
● SSL-LX3044HD	4	T-1 (3mm)	Dark Red	Red Diff.	700	25	2	09J9282	0.111	0.091
● SSL-LX3044SRC/D	4	T-1 (3mm)	Sup. Red	Water Clear	660	30	1.8	09J9288	0.209	0.172
● SSL-LX3044IC	4	T-1 (3mm)	Red	Water Clear	635	30	2.1	09J9283	0.143	0.117
● SSL-LX3044ID	4	T-1 (3mm)	Red	Red Diff.	635	30	2	09J9284	0.140	0.115
● SSL-LX3044IT	4	T-1 (3mm)	Red	Red Trans.	635	30	2	09J9515	0.143	0.117
● SSL-LX3044AD	4	T-1 (3mm)	Amber	Amber Diff.	605	30	2.1	09J9510	0.143	0.117
● SSL-LX3044YC	4	T-1 (3mm)	Yellow	Water Clear	585	30	2.1	09J9291	0.148	0.122
● SSL-LX3044YD	4	T-1 (3mm)	Yellow	Yellow Diff.	585	30	2.1	09J9292	0.143	0.117
● SSL-LX3044YT	4	T-1 (3mm)	Yellow	Yellow Trans.	585	30	2.1	09J9519	0.148	0.122
● SSL-LX3044GC	4	T-1 (3mm)	Green	Water Clear	565	25	2.2	09J9279	0.134	0.110
● SSL-LX3044GD	4	T-1 (3mm)	Green	Green Diff.	565	25	2.2	09J9280	0.125	0.103
● SSL-LX3044GT	4	T-1 (3mm)	Green	Green Trans.	565	25	2.2	09J9281	0.134	0.110

➤ CONTINUED ➤

THROUGH-HOLE LEDS

LEDS (CONT.)

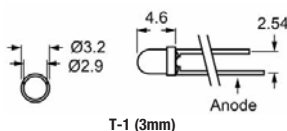
Mfg. Part No.	Fig.	Description	Emitted Color	Lens Type	Wavelength (nm)	I _F (mA)	V _F (V)	Stock No.	Price Each	
									1-9	10-99
● SSL-LX3044PGD	4	T-1 (3mm)	Pure Green	Green Diff.	555	25	2.2	09J9516	0.143	0.117
● SSL-LX3044LID	4	T-1 (3mm)	Red	Red Diff.	635	30	2	09J9286	0.143	0.117
● SSL-LX3044LYD	4	T-1 (3mm)	Yellow	Yellow Diff.	585	30	2.1	09J9287	0.151	0.124
● SSL-LX3052ID	5	T-1 (3mm)	Red	Red Diff.	635	30	2	09J9294	0.143	0.117
● SSL-LX4673ID-LA20	6	4mmX7mm	Red	Red Diff.	635	30	2	09J9303	0.328	0.269
● SSL-LX4673YD-LA20	6	4mmX7mm	Yellow	Yellow Diff.	585	30	2.1	09J9304	0.328	0.269
● SSL-LX4673GD-LA20	6	4mmX7mm	Green	Green Diff.	565	25	2.2	09J9302	0.328	0.269
● SSL-LX5063ID	7	T-1 3/4 (5mm)	Red	Red Diff.	635	30	2	09J9522	0.151	0.124
● SSL-LX5063IT	7	T-1 3/4 (5mm)	Red	Red Trans.	635	30	2	09J9523	0.157	0.129
● SSL-LX5063YC	7	T-1 3/4 (5mm)	Yellow	Water Clear	585	30	2.1	09J9525	0.166	0.136
● SSL-LX5063YT	7	T-1 3/4 (5mm)	Yellow	Yellow Trans.	585	30	2.1	09J9526	0.166	0.136
● SSL-LX5063GT	7	T-1 3/4 (5mm)	Green	Green Trans.	565	25	2.2	09J9521	0.148	0.122
● SSL-LX5063LGT	7	T-1 3/4 (5mm)	Green	Green Trans.	565	25	2.2	09J9524	0.157	0.129
● SSL-LX5093GD-12V	8	T-1 3/4 (5mm)	Green	Green Diff.	565	12	2.2	09J9527	0.285	0.234
● SSL-LX5093HD-5V	8	T-1 3/4 (5mm)	Red	Red Diff.	700	12	5	09J9529	0.285	0.234
● SSL-LX5093ID-5V	8	T-1 3/4 (5mm)	Red	Red Diff.	635	12	5	09J9530	0.285	0.234
● SSL-LX5093GD-5V	8	T-1 3/4 (5mm)	Green	Green Diff.	565	12	5	58K2373	0.285	0.234
● SSL-LX5093HD	8	T-1 3/4 (5mm)	Red	Red Diff.	700	25	2	63K6467	0.114	0.093
● SSL-LX5093SRD/D	8	T-1 3/4 (5mm)	Sup. Red	Red Diff.	660	30	1.7	09J9321	0.209	0.172
● SSL-LX5093ID	8	T-1 3/4 (5mm)	Red	Red Diff.	635	30	2	09J9310	0.137	0.112
● SSL-LX5093IT	8	T-1 3/4 (5mm)	Red	Red Trans.	635	30	2	09J9312	0.143	0.117
● SSL-LX5093AD	8	T-1 3/4 (5mm)	Amber	Amber Diff.	605	30	2	59K0271	0.143	0.117
● SSL-LX5093YD	8	T-1 3/4 (5mm)	Yellow	Yellow Diff.	585	30	2.1	09J9326	0.143	0.117
● SSL-LX5093YT	8	T-1 3/4 (5mm)	Yellow	Yellow Trans.	585	30	2.1	09J9327	0.148	0.122
● SSL-LX5093GD	8	T-1 3/4 (5mm)	Green	Green Diff.	565	25	2.2	59K0273	0.125	0.103
● SSL-LX5093GT	8	T-1 3/4 (5mm)	Green	Green Trans.	565	25	2.2	09J9308	0.128	0.105
● SSL-LX5093PGD	8	T-1 3/4 (5mm)	Pure Green	Green Diff.	555	25	2.2	09J9531	0.143	0.117
● SSL-LX5093LYD	8	T-1 3/4 (5mm)	Yellow	Yellow Diff.	585	30	2.1	09J9316	0.148	0.122
● SSL-LX5093LGD	8	T-1 3/4 (5mm)	Green	Green Diff.	565	25	2.2	09J9313	0.134	0.110
● SSL-LX5093LGT	8	T-1 3/4 (5mm)	Green	Green Trans.	565	30	2.2	09J9314	0.140	0.115
● SSL-LX5093XIC	8	T-1 3/4 (5mm)	Red	Water Clear	635	30	2	09J9323	0.157	0.129
● SSL-LX5093XAC	8	T-1 3/4 (5mm)	Amber	Water Clear	610	30	2	09J9532	0.163	0.134
● SSL-LX5093XGC	8	T-1 3/4 (5mm)	Green	Water Clear	565	25	2.2	09J9533	0.157	0.129
● SSL-LX5093XPGC	8	T-1 3/4 (5mm)	Green	Water Clear	555	25	2.2	58K2376	1.050	0.857
● SSL-LX5097IGW	9	T-1 3/4 (5mm)	Red/Green	White Diff.	635/565	30/25	2.1	09J9328	0.427	0.350
● SSL-LX20465ID	10	2mm taper body	Red	Red Diff.	635	30	2	09J9505	0.157	0.129
● SSL-LX20465GD	10	2mm taper body	Green	Green Diff.	565	25	2.2	09J9504	0.143	0.117
● SSL-LX30448SYC	11	7.6mm Sq.	Sup. Yellow	Water Clear	590	70	2.25	58K2371	0.522	0.429
● SSL-LXA227GD-5V	12	Gull wing	Green	Green Diff.	565	12	5	59K0269	0.357	0.293
● SSL-LXA228SRC	12	Gull wing	Red	Water Clear	660	30	1.7	58K2353	0.273	0.224
● SSL-LXA228IC	12	Gull wing	Red	Water Clear	635	30	2	58K2349	0.276	0.227
● SSL-LXA228SYC	12	Gull wing	Sup. Yellow	Water Clear	590	30	2	09J9502	1.330	1.090
● SSL-LXA228YC	12	Gull wing	Yellow	Water Clear	585	30	2.1	58K2356	0.290	0.238
● SSL-LXA228SGC	12	Gull wing	Green	Water Clear	565	25	2.2	58K2352	0.377	0.310
2mm PACKAGE, CERAMIC STEM										
● SSL-LX203CGT	13	2mm, Ceramic Stem	Green	Transparent	565	25	2.2	60K6945	0.856	0.703
● SSL-LX203CYT	13	2mm, Ceramic Stem	Yellow	Transparent	585	30	2.1	59K0270	0.856	0.703
● SSL-LX203CIT	13	2mm, Ceramic Stem	Orange/Red	Transparent	635	30	2	58K2367	0.856	0.703
● SSL-LX203CSRT	13	2mm, Ceramic Stem	Red	Transparent	660	30	1.6	68K1124	1.090	0.895
3mm PACKAGE, BICOLOR COMMON CATHODE										
● SSL-LX3059GYW	14	3mm	Green/Yellow	Milky White	565/585	25/30	2.2/2.0	09J9300	0.314	0.257
● SSL-LX3059IGW	14	3mm	Red/Green	Milky White	635/565	30/25	2.0/2.2	09J9301	0.314	0.257

(80616)

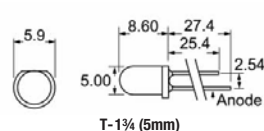
InGaN/SiC BLUE LEDS



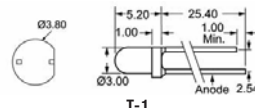
WHITE LEDS



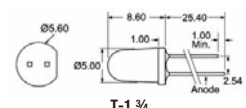
T-1 (3mm)



T-1 1/4 (5mm)



T-1



T-1 1/4

Forward Voltage: 3.5V.

T-1 (3mm) - SHORT LENS, CLEAR LENS COLOR

Mfg. Part No.	Emitted Color	Wave-length (nm)	Luminous Intensity (mcd)	View. Angle (°)	Stock No.	Price Each
● SSL-LX3044USBC	Ultra Super Blue	470	1000	30	60K6946	1.520

T-1 1/4 (5mm) - SHORT LENS, BLUE DIFFUSED LENS COLOR

● SSL-LX5093USBD	Ultra Super Blue	470	300	60	09J9458	2.590
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(80501)

Mfg. Part No.	Luminous Intensity (mcd)	Viewing Angle	Package	Stock No.	Price Each
● SSL-LX3054UWC/A	750	40°	T-1	74K1761	3.870
● SSL-LX5093UWC/A	740	45°	T-1 1/4	59K0274	3.870
● SSL-LX5093XUWC	2300	15°	T-1 1/4	09J9325	3.870

(80520)

THROUGH-HOLE LEDS

20mm 6-CHIP
JUMBO LED DOME

Features

- State-of-the-Art, High Brightness Chip Technology
- Easy-to-Solder Leads, Tin Finish
- Available Bulk or on Tape and Reel
- Custom Shapes/Easily/Tooled/Low Minimum
- PCB with Chips on the Board Construction
- With Internal Resistor for 5V and 12V Operations

Applications

- Board or Panel Indication or Illumination
- Backlighting of Overlays and Graphics
- Annunciator and Control Panels
- Telecom Switches and Central Station Equipment
- Large Panel Indicators

20mm 6-CHIP JUMBO LED DOME (CONT.)

Mfg. Part No.	Emitted Color	Wave-length (nm)	Lens	V _F (V)	Luminous Intensity (mcd)	Viewing Angle 2x Theta	Stock No.	Price Each 1-9
● SSL-LX20R6SRD	Sup Red	660	Red Dfsd	5.1	60	120	09J9750	2.360
● SSL-LX20R6YD	Yellow	585	Yellow Dfsd	6.3	23	120	09J9751	1.840

(80673)

Mfg. Part No.	Emitted Color	Wave-length (nm)	Lens	V _F (V)	Luminous Intensity (mcd)	Viewing Angle 2x Theta	Stock No.	Price Each 1-9
● SSL-LX20R6GD	Green	565	Green Dfsd	6.6	25	120	09J9748	1.840
● SSL-LX20R6ID	High Intensity Red	635	Red Dfsd	6.0	35	120	28M9295	1.840

➤ CONTINUED ➤

HIGH BRIGHTNESS LEDS

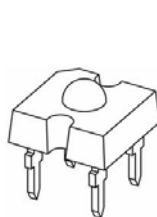


Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



A subsidiary of TT electronics plc



4

Mfg. Part No.	Fig.	Chip			Flux (mW)		Viewing Angle (°)	Stock No.	Price Each 1-24
		Material	Color	Wavelength (nm)	@ I _F (mA)	Typ.			
● OVFSAC8	1	AlInGaP	Amber	591	70	5000	100	52K5235	0.432
● OVFSB6C8	1	InGaP	Blue	470	30	850	60	52K5236	0.692
● OVFSG6C8	1	InGaP	Green	527	30	2500	60	52K5237	0.778
● OVFSQ4C8	1	AlInGaP	Red/Orange	618	70	4500	40	52K5238	0.519
● OVFSRAC8	1	AlInGaP	Red	624	70	4500	100	52K5239	0.404
● OVFSW6C8	1	InGaP	White	...	30	1200	60	52K5240	0.749
3mm ROUND									
● OVLB4C7	2	InGaP	Blue	470	20	900	45	52K5245	0.548
● OVLBG4C7	2	InGaP	Green	525	20	2000	45	52K5246	0.605
● OVLB4C7	2	AlInGaP	Red	623	20	1800	45	52K5247	0.317
● OVLB4C7	2	AlInGaP	Yellow	589	20	2400	45	52K5248	0.317
5mm ROUND									
● OVLEW1CB9	3	InGaP	White	...	20	18000	15	52K5249	0.951
● OVLF3C7	3	InGaP	Blue	470	20	1350	30	52K5252	0.548
● OVLF3C7	3	InGaP	Green	525	20	5200	30	52K5253	0.605
● OVLF3C7	3	AlInGaP	Red	623	30	5000	30	52K5254	0.317
● OVLFY3C7	3	AlInGaP	Yellow	589	30	5700	30	52K5255	0.317
5mm TAPERED HIGH INTENSITY									
● OVLB80C6B9	3	InGaP	Blue	470	20	3800	6	52K5256	0.548
● OVLB80C6B9	3	AlInGaP	Red	623	20	8550	6	52K5261	0.202
● OVLY0C9B9	3	AlInGaP	Yellow	589	20	10300	6	52K5262	0.202
5mm OVAL									
● OVLBK8D	4	InGaP	Blue	470	20	500	50	52K5263	0.807
● OVLBK8D	4	InGaP	Green	525	20	1100	50	52K5264	0.893
● OVLBK8D	4	AlInGaP	Red/Orange	618	20	800	50	52K5265	0.346
● OVLBK8D	4	AlInGaP	Red	624	20	900	50	52K5266	0.288
4mm OVAL									
● OVLB8GD	5	InGaP	Blue	470	20	300	100	52K5267	0.634
● OVLB8GD	5	InGaP	Green	525	20	1200	100	52K5268	0.778
● OVLB8GD	5	AlInGaP	Red	624	20	400	100	52K5269	0.173
● OVLB8GT6	6	InGaP	Blue	470	20	300	60	52K5270	1.130
● OVLB8GT6	6	InGaP	Green	525	20	1100	60	52K5271	1.130
● OVLB8GT6	6	AlInGaP	Red-Orange	616	20	430	60	52K5272	0.519
5mm CYLINDER									
● OVLLB8C7	7	InGaP	Blue	470	20	300	85	52K5273	0.548
● OVLLB8C7	7	InGaP	Green	525	20	670	85	52K5274	0.605
● OVLLB8C7	7	AlInGaP	Red	623	20	570	85	52K5275	0.317
● OVLLY8C7	7	AlInGaP	Yellow	589	20	650	85	52K5276	0.317

(87947)

THROUGH-HOLE LEDS

VISIBLE LED ASSEMBLIES



Features

- Available in bar, ring, flood, or spot styles
- Mono-color per strip (Blue, Green, Red, Yellow, White)*
- Various component beam angle options
- Power connected to either end on light bars

- Available with or without lens
- Universal connector (Tyco 2-292173-2 mates with 173977-2)

OPA729 - 10 Watt Light Bar on Heat Spreader

Mfg. Part No.	Color	# of LEDs	V _F (V)	Viewing Angle (°)	Flux (lm)	Wavelength (nm)	Stock No.	Price Each
● OPA729W	White	10	18	120	480	7000°K	30M5148	43.020
● OPA729WD	White	10	18	60	480	7000°K	30M5149	49.880

OPA740 - 10 Watt Light Bar on Heat Spreader with Lens

● OPA740W23	White	10	3.6	23	297	7000°K	30M5159	80.980
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OPA731 - 20 Watt Light Flood on Heat Spreader

● OPA731W	White	20	18	120	960	7000°K	30M5152	76.560
● OPA731WD	White	20	18	60	960	7000°K	30M5153	90.340

OPA741 - 12 Watt Light Ring on Heat Spreader with Lens

● OPA741W23	White	12	3.6	23	490	7000°K	30M5160	101.690
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OPA730 - 12 Watt Light Ring on Heat Spreader

● OPA730W	White	12	21.6	120	576	7000°K	30M5150	52.740
● OPA730WD	White	12	21.6	60	576	7000°K	30M5151	61.130

OPA739 - 3 Watt Light Bar on Heat Spreader

● OPA739W	White	3	2.5	120	144	7000°K	30M5158	14.420
● OPA739WD	White	3	10.8	60	144	7000°K	33M9455	16.550

OPA742 - 1 Watt Light Spot on Heat Spreader with Lens

● OPA742W23	White	1	3.6	23	41	7000°K	30M5161	12.550
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OPA733 - 1 Watt Light Spot on Heat Spreader

● OPA733W	White	1	3.6	120	48	7000°K	30M5156	8.080
● OPA733WD	White	1	2.5	60	48	7000°K	33M9447	8.830

*Other colors available. Go online or call.
(94518)

ULTRA BRIGHT LED LAMPS



CLEAR DOMED LENS

Mfg. Part No.	LED Color	Typ. (mcd)	Forward Current (mA)	Viewing Angle (°)	Material	Stock No.	Price Each
● AND5BA	Blue	112	20	30	GaN	88H1973	1.150
● AND5BB	Blue	150	20	30	InGaP	42K8467	2.550
● AND5GA	Green	125	20	30	GaP	16F1805	0.491
● AND5OA	Orange	750	20	30	InGaP	15B5645	0.458
● AND5RA	Red	480	20	30	GaAlAs	16F1801	0.426
● AND5SA	Red	40	20	30	GaAsP	16F1802	0.295
● AND5YA	Yellow	625	20	30	InGaP	16F1804	0.524

CLEAR FLAT LENS

● AND4BA	Blue	20	20	140	GaN	17C1549	1.120
● AND7BA	Blue	30	5	120	InGaP	42K8471	0.883
● AND4BC	Blue	50	20	140	InGaP	42K8459	3.080
● AND4GA	Green	15	20	140	GaP	96F8864	0.393
● AND7GA	Green	180	20	120	InGaP	42K8472	1.610
● AND7GB	Green	45	20	120	InGaP	42K8473	0.262
● AND4OA	Orange	60	20	140	InGaP	42K8463	0.262
● AND4RA	Red	40	20	140	GaAlAs	95F4077	0.393
● AND4SA	Red	5	20	140	GaAsP	16F1799	0.197
● AND7RA	Red	135	20	120	InGaP	42K8474	0.393
● AND7WA	White	45	5	130	InGaP	42K8475	1.410
● AND4WA	White	182	20	150	InGaP	22C8882	3.210
● AND7YA	Yellow	135	20	120	InGaP	42K8476	0.229
● AND4YA	Yellow	80	20	140	InGaP	25H8040	0.327

CLEAR T-1 3/4, 10mm

● AND520HB	Blue	900	20	20	InGaP	95B1795	2.980
● AND240GCP	Green	780	20	20	GaP	93F4506	0.589
● AND113GP	Green	50	10	30	GaP	15B5582	0.262
● AND520HG	Green	5000	20	20	InGaP	95B1796	2.980

CLEAR T-1 3/4, 5mm

● AND185HAP	Amber	11150	20	6	InGaP	75C9588	0.589
● AND135PGP	Green	500	20	25	GaP	96F8865	0.360
● AND183HGP	Green	2500	20	8	InGaP	92F2644	1.050
● AND412HG	Green	2200	20	12	InGaP	95H6713	2.420
● AND185HOP	Orange	11750	20	6	InGaP	88K1037	0.589
● AND120CRP	Red	2000	20	22	GaAlAs	88K1869	0.393
● AND130CR	Red	2000	20	16	GaAlAs	94F8346	0.393
● AND155CRP	Red	1250	20	20	GaAlAs	90F7065	0.524

➔ CONTINUED ➔

ULTRA BRIGHT LED LAMPS (CONT.)

CLEAR T-1 3/4, 5mm

Mfg. Part No.	LED Color	Typ. (mcd)	Forward Current (mA)	Viewing Angle (°)	Material	Stock No.	Price Each
● AND113S	Red	150	10	30	GaAsP	15B5584	0.327
● AND113RP	Red	18	10	30	GaP	15B5583	0.229
● AND157HRP	Red	1800	20	20	InGaP	92F2641	0.589
● AND180HRP	Red	6000	20	8	InGaP	92F2646	0.589
● AND180HSP	Red	6000	20	8	InGaP	52F6144	0.589

DIFFUSED T-1 3/4, 5mm

● AND116CR	Red	130	20	60	GaAlAs	95F4083	1.020
● AND134CRP	Red	600	20	40	GaAlAs	83F8483	0.327
● AND114S	Red	50	10	60	GaAsP	94F8336	0.229
● AND114SP	Red	50	10	60	GaAsP	15B5590	0.262
● AND114-R	Red	5	10	60	GaP	01H9629	0.229
● AND114RP	Red	5	10	60	GaP	15B5589	0.229
● AND520HW	White	4000	20	25	InGaP	95B1797	2.980
● AND720HW	White	9000	30	20	InGaP	22J0276	1.540
● AND113Y	Yellow	50	10	30	GaAsP	15B5585	0.295
● AND113YP	Yellow	50	10	30	GaAsP	15B5586	0.295
● AND114YP	Yellow	18	10	60	GaAsP	15B5591	0.262

CLEAR T-1, 3mm

● AND125CRP	Red	600	20	36	GaAlAs	88K1036	0.327
● AND123Y	Yellow	45	10	50	GaAsP	15B5597	0.295
● AND262HBA	Blue	250	20	40	GaN	40C1898	1.120
● AND160NG	Green	250	20	15	GaP	95B8655	0.426
● AND262GCP	Green	110	20	36	GaP	50B831	0.262
● AND123R	Red	12	10	50	GaP	15B5596	0.229
● AND262HS	Red	630	20	10	InGaP	40C1897	0.785
● AND262HW	White	750	20	38	InGaP	40C1895	2.850

DIFFUSED T-1, 3mm

● AND126CR	Red	180	20	65	GaAlAs	95F4084	0.327
● AND124Y	Yellow	20	10	60	GaAsP	15B5598	0.295
● AND124R	Red	3	10	60	GaP	94F279	0.229

CLEAR T-3, 10mm

● AND190HAP	Amber	8000	20	6	InGaP	16F1797	2.160
● AND190HBA	Blue	1500	20	10	GaN	83C8443	2.160
● AND190GCP	Green	700	20	8	GaP	50F3824	2.160
● AND190HGP	Green	2000	20	8	InGaP	95B1793	2.650
● AND190HOP	Orange	6000	20	6	InGaP	84C9236	2.160
● AND190CRP	Red	11000	20	8	GaAlAs	93K7530	2.160
● AND190HRP	Red	10000	20	8	InGaP	16F1796	2.160
● AND190HW	White	6000	20	40	InGaP	88H1254	4.390

CLEAR TOP LED

● AND6BA	Blue	55	20	120	GaN	42K8468	1.180
● AND6BB	Blue	37	20	120	InGaP	42K8469	2.420
● AND6BC	Blue	75	20	120	InGaP	54H1136	2.780
● AND6GA	Green	170	20	120	InGaP	42K8470	2.980
● AND4WA	White	160	20	120	InGaP	22C8882	3.210

STANDARD BRIGHT LED LAMPS/DUAL COLOR



Mfg. Part No.	LED Color	Peak (nm)	Luminous Intensity, I _v (mcd)		I _F (mA)	Total Angle (°)	Stock No.	Price Each
			Min	Typ				
● AND126SG	Red/Green	635/565	12/12	14/14	10	60	90F7051	0.668
● AND116SG	Red/Green	635/565	10/10	12/12	10	70	88K1868	0.561
● AND208SGA	Red/Green	625/565	8.0/8.0	14.0/14.0	10	110	15B5620	0.668
● AND208YGA	Yellow/Green	590/565	3.2/8.0	6.0/14.0	10	110	15B5622	0.615

(74118)

LED TESTER

Specifications:

- Tests 2, 5, 10, 20, 30 and 50mA LEDs
- Tests 3P Common Cathode and Common Anode LEDs
- Requires 9V Battery (Not Included)



Mfg. Part No.	Description	Stock No.	Price Each
MC20159	LED TESTER	83K9059	33.520

(88490)

THROUGH-HOLE LEDS

BI-COLOR LED LAMPS



Lenses are white diffused.

BULB SIZE: T-1

Mfg. Part No.	Color	Viewing Angle	Luminous Intensity/If Typ. (mcd/mA)	Stock No.	Price Each		
					1-49	50-99	100-249
● MC20393	Red/Yellow Green	60	20/20	87K7030	0.611	0.518	0.469
● MC20394	Red/Yellow	60	30/20	87K7031	0.611	0.518	0.469
● MCL-937GYW	Green/Yellow	60	20/30	92N5365	0.768	0.651	0.589
● MC20392	Yellow/Yellow Green	60	30/20	87K7029	0.611	0.518	0.469

BULB SIZE: T-1 3/4

● MCL-57EGW	Red/Green	60	40/25	92N5366	0.768	0.651	0.589
● MC20414	Red/Yellow Green	60	25/20	87K7048	0.611	0.518	0.469
● MCL-57EYW	Red/Yellow	60	40/25	92N5367	0.960	0.813	0.736
● MC20415	Red/Yellow	60	25/20	87K7049	0.611	0.518	0.469
● MC20413	Yellow/Yellow Green	60	25/20	87K7047	0.611	0.518	0.469
● MV5491A	Red/Yellow Green	75	20/20	87K7100	0.654	0.555	0.502
● MV5437	Yellow/Red	100	15/20	87K7095	0.611	0.518	0.469
● MV5439A	Red/Yellow Green	100	15/20	87K7096	0.611	0.518	0.469

(17434)

ULTRABRIGHT LEDS



T-1 ¼ (5mm), PHI = ±4°

Mfg. Part No.	Color (Wavelength)	Stock No.	Price Each	
			1-99	100-499
● TLCS5800	Red (622 nm)	22H1217	0.278	0.257
● TLCY5800	Yellow (593 nm)	58K2440	0.253	0.234
● TLCS5800	Blue (464 nm)	22H1215	1.270	1.180

T-1 ¼ (5mm), PHI = ±9°

● TLCS5100	Red (622 nms)	22H1216	0.213	0.197
● TLCY5100	Yellow (593 nm)	58K2439	0.213	0.197
● TLCTG5100	True Green (520 nm)	59K0277	1.180	1.090
● TLCS5100	Blue (464 nm)	22H1214	1.270	1.180

SMD (0603 Size)

● TLMS1100-GS08	Red (633 nm)	28K0268	0.199	0.157
● TLMY1100-GS08	Yellow (587 nm)	26K5585	0.203	0.161
● TLMG1100-GS08	Green (572 nm)	26K5584	0.203	0.160

LOW PROFILE, MiniSMD (2.3mm x 1.3mm x 1.4mm)

● TLME2300-GS08	Yellow (594 nm)	39M5162	0.136	0.114
● TLMF2300-GS08	Orange (630 nm)	38H042	0.146	0.122
● TLMK2300-GS08	Red (630 nm)	39M5163	0.141	0.118

(74701)

STANDARD LEDS



Features:

- Standard T-1 and T-1 ¾ Packages
- Suitable for DC, High Peak Current and Pulse Operations

Applications:

- Status Lights, OFF/ON Indicator, Background Illuminations, Readout Lights, Outdoor LED Panels, Front Panel Indicators, Traffic Signals

T-1 (3mm), phi = ±16°

Mfg. Part No.	V _F (V)	Color (Wavelength)	Luminous Intensity I _F @ I _F (mcd, mA)	V _F @ I _F (V, mA)	Product Series	Stock No.	Price Each
							1-99
● TLDR4900	1.8 (<2.2)	High-Intensity Red (648nm)	200.0 (>63) @ 20	1.8 (<2.2) @ 20	High Intensity, Untinted, Non-Diff. Lens	59K0278	0.261
● TLDR4901	1.8 (<2.2)	High-Intensity Red (648nm)	200.0 (>63) @ 20	1.8 (<2.2) @ 20	High Intensity, Untinted, Non-Diff. Lens	33C1256	0.316
● TLHR4900	2.0 (<3.0)	High-Efficiency Red (612-625nm)	13.0 (>6.3) @ 10	2.0 (<3.0) @ 20	High Efficiency, Untinted, Non-Diff. Lens	58K2485	0.122
● TLH04900	2.4 (<3.0)	Orange (598-611nm)	26.0 (>10.0) @ 10	2.4 (<3.0) @ 20	High Efficiency, Untinted, Non-Diff. Lens	58K2477	0.153
● TLHY4900	2.4 (<3.0)	Yellow (581-594nm)	26.0 (>10.0) @ 10	2.4 (<3.0) @ 20	High Efficiency, Untinted, Non-Diff. Lens	58K2491	0.141
● TLHG4900	2.4 (<3.0)	Green (562-575nm)	37.0 (>16.0) @ 10	2.4 (<3.0) @ 20	High Efficiency, Untinted, Non-Diff. Lens	58K2465	0.129
● TLHP4900	2.4 (<3.0)	Pure Green (555-565nm)	13.0 (>4.0) @ 10	2.4 (<3.0) @ 20	High Efficiency, Untinted, Non-Diff. Lens	33C1313	0.154
● TLHE4900	1.9 (<2.6)	Yellow (588nm)	300 (>66) @ 10	1.9 (<2.6) @ 20	High Intensity, Untinted, Non-Diff. Lens	58K2451	0.214
● TLHF4900	1.9 (<2.6)	Soft Orange (605nm)	300 (>66) @ 10	1.9 (<2.6) @ 20	High Intensity, Untinted, Non-Diff. Lens	58K2457	0.235

T-1 (3mm), phi = ±22°

● TLHR4200	2.0 (<3.0)	High-Efficiency Red (612-625nm)	8.0 (>4.0) @ 10	2.0 (<3.0) @ 20	High Efficiency, Tinted, Non-Diff. Lens	58K2481	0.122
● TLHR4201	2.0 (<3.0)	High-Efficiency Red (612-625nm)	10.0 (>6.3) @ 10	2.0 (<3.0) @ 20	High Efficiency, Tinted, Non-Diff. Lens	33C1319	0.122
● TLHR4205	2.0 (<3.0)	High-Efficiency Red (612-625nm)	15.0 (>10.0) @ 10	2.0 (<3.0) @ 20	High Efficiency, Tinted, Non-Diff. Lens	33C1320	0.126
● TLH04200	2.4 (<3.0)	Soft Orange (598-611nm)	10.0 (>4.0) @ 10	2.4 (<3.0) @ 20	High Efficiency, Tinted, Non-Diff. Lens	58K2475	0.150
● TLH04201	...	Soft Orange (598-611nm)	18.0 (>10.0) @ 10	2.4 (<3.0) @ 20	High Efficiency, Tinted, Non-Diff. Lens	58K2476	0.155
● TLHY4200	2.4 (<3.0)	Yellow (581-594nm)	10.0 (>4.0) @ 10	2.4 (<3.0) @ 20	High Efficiency, Tinted, Non-Diff. Lens	58K2488	0.139
● TLHY4201	2.4 (<3.0)	Yellow (581-594nm)	15.0 (>6.3) @ 10	2.4 (<3.0) @ 20	High Efficiency, Tinted, Non-Diff. Lens	33C1344	0.142
● TLHY4205	2.4 (<3.0)	Yellow (581-594nm)	20.0 (>10.0) @ 10	2.4 (<3.0) @ 20	High Efficiency, Tinted, Non-Diff. Lens	33C1345	0.145
● TLHG4200	2.4 (<3.0)	Green (562-575nm)	10.0 (>6.3) @ 10	2.4 (<3.0) @ 20	High Efficiency, Tinted, Non-Diff. Lens	58K2460	0.138
● TLHG4201	2.4 (<3.0)	Green (562-575nm)	15.0 (>10.0) @ 10	2.4 (<3.0) @ 20	High Efficiency, Tinted, Non-Diff. Lens	33C1273	0.142
● TLHG4205	2.4 (<3.0)	Green (562-575nm)	20.0 (>16.0) @ 10	2.4 (<3.0) @ 20	High Efficiency, Tinted, Non-Diff. Lens	33C1274	0.138
● TLHP4200	2.4 (<3.0)	Pure Green (555nm)	7 (>2.5) @ 10	2.4 (<3.0) @ 20	High Efficiency, Tinted, Non-Diff. Lens	58K2478	0.154
● TLHB4200	3.9 (<4.5)	Blue (428nm)	50 (>25) @ 20	3.9 (<4.5) @ 20	High Efficiency, Tinted, Non-Diff. Lens	58K2445	0.689
● TLHB4201	3.9 (<4.5)	Blue (428nm)	132 (>40) @ 20	3.9 (<4.5) @ 20	High Efficiency, Tinted, Non-Diff. Lens	58K2446	0.713
● TLHF4200	1.9 (<2.6)	Soft Orange (605nm)	120 (>40) @ 10	1.9 (<2.6) @ 20	High Intensity, Tinted, Non-Diff. Lens	58K2455	0.235
● TLHK4200	1.9 (<2.6)	High-Intensity Red (630nm)	50 (>25) @ 10	1.9 (<2.6) @ 20	High Intensity, Tinted, Non-Diff. Lens	58K2471	0.180

T-1 (3mm), phi = ±30°

● TLHR4400	2.0 (<3.0)	High-Efficiency Red (612-625nm)	3.0 (>1.6) @ 10	2.0 (<3.0) @ 20	High Efficiency, Tinted, Diffused Lens	60K6982	0.112
● TLHR4401	2.0 (<3.0)	High-Efficiency Red (612-625nm)	5.0 (>2.5) @ 10	2.0 (<3.0) @ 20	High Efficiency, Tinted, Diffused Lens	58K2482	0.126
● TLHR4405	2.0 (<3.0)	High-Efficiency Red (612-625nm)	10.0 (>6.3) @ 10	2.0 (<3.0) @ 20	High Efficiency, Tinted, Diffused Lens	58K2483	0.126
● TLH04400	2.4 (<3.0)	Orange (598-611nm)	4.0 (>1.6) @ 10	2.4 (<3.0) @ 20	High Efficiency, Tinted, Diffused Lens	33C1307	0.153
● TLHY4400	2.4 (<3.0)	Yellow (581-594 nm)	3.0 (>1.6) @ 10	2.4 (<3.0) @ 20	High Efficiency, Tinted, Diffused Lens	58K2489	0.144
● TLHY4401	2.4 (<3.0)	Yellow (581-594nm)	5.0 (>2.5) @ 10	2.4 (<3.0) @ 20	High Efficiency, Tinted, Diffused Lens	33C1347	0.145
● TLHY4405	2.4 (<3.0)	Yellow (581-594nm)	10.0 (>6.3) @ 10	2.4 (<3.0) @ 20	High Efficiency, Tinted, Diffused Lens	33C1348	0.145
● TLHG4400	2.4 (<3.0)	Green (562-575nm)	4.0 (>2.5) @ 10	2.4 (<3.0) @ 20	High Efficiency, Tinted, Diffused Lens	58K2461	0.140
● TLHG4401	2.4 (<3.0)	Green (562-575nm)	6.0 (>4.0) @ 10	2.4 (<3.0) @ 20	High Efficiency, Tinted, Diffused Lens	58K2462	0.140
● TLHG4405	2.4 (<3.0)	Green (562-575nm)	12.0 (>6.3) @ 10	2.4 (<3.0) @ 20	High Efficiency, Tinted, Diffused Lens	58K2463	0.140

▶ CONTINUED ▶

THROUGH-HOLE LEDS

STANDARD LEDS (CONT.)

T-1 (3mm), $\phi = \pm 30^\circ$

Mfg. Part No.	V _F (V)	Color (Wavelength)	Luminous Intensity I _v @ I _F (mcd, mA)	V _F @ I _F (V, mA)	Product Series	Stock No.	Price Each
● TLHP4401	2.4 (<3.0)	Pure Green (555-565nm)	3.0 (>0.1) @ 10	2.4 (<3.0) @ 20	High Efficiency, Tinted, Diffused Lens	33C1311	0.159
● TLHB4400	3.9 (<4.5)	Blue (428nm)	15 (>6.3) @ 20	3.9 (<4.5) @ 20	High Efficiency, Tinted, Diffused Lens	95B4833	0.691
● TLHB4401	3.9 (<4.5)	Blue (428nm)	32 (>10) @ 20	3.9 (<4.5) @ 20	High Efficiency, Tinted, Diffused Lens	58K2447	0.713
● TLHE4400	1.9 (<2.6)	Yellow (588nm)	80 (>25) @ 10	1.9 (<2.6) @ 20	High Intensity, Tinted, Diffused Lens	59K0280	0.210
● TLHK4400	1.9 (<2.6)	High-Intensity Red (630nm)	140 (>16) @ 10	1.9 (<2.6) @ 20	High Intensity, Tinted, Diffused Lens	58K2472	0.180
● TLUR4400	1.6 (<2.0)	Red (645nm)	0.8 (>0.4) @ 10	1.6 (<2.0) @ 20	Universal Red, Tinted, Diffused Lens	33C1437	0.225
● TLUR4401	1.6 (<2.0)	Red (645nm)	5 (>1) @ 10	1.6 (<2.0) @ 20	Universal Red, Tinted, Diffused Lens	33C1438	0.116

T-1 (3mm), $\phi = \pm 40^\circ$

● TLDR4400	1.8 (<2.2)	High-Intensity Red (650nm)	45 (>25) @ 20	1.8 (<2.2) @ 20	High Intensity, Tinted, Diffused Lens	58K2442	0.253
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T-1 (3mm), $\phi = \pm 60^\circ$

● TLHR4600	2.0 (<3.0)	High-Efficiency Red (635nm)	2.0 (>1.0) @ 10	2.0 (<3.0) @ 20	High Efficiency, Tinted, Diffused Lens	58K2484	0.125
● TLHR4601	2.0 (<3.0)	High-Efficiency Red (635nm)	3.5 (>1.6) @ 10	2.0 (<3.0) @ 20	High Efficiency, Tinted, Diffused Lens	33C1325	0.129
● TLHR4605	2.0 (<3.0)	High-Efficiency Red (635nm)	6.0 (>2.5) @ 10	2.0 (<3.0) @ 20	High Efficiency, Tinted, Diffused Lens	33C1326	0.138
● TLHY4600	2.4 (<3.0)	Yellow (585nm)	2.0 (>0.63) @ 10	2.0 (>0.63) @ 10	High Efficiency, Tinted, Diffused Lens	58K2490	0.141
● TLHY4601	2.4 (<3.0)	Yellow (585nm)	3.5 (>1.0) @ 10	2.4 (<3.0) @ 20	High Efficiency, Tinted, Diffused Lens	33C1350	0.146
● TLHY4605	2.4 (<3.0)	Yellow (585nm)	5.0 (>2.5) @ 10	2.4 (<3.0) @ 20	High Efficiency, Tinted, Diffused Lens	33C1351	0.156
● TLHG4600	2.4 (<3.0)	Green (565nm)	2.0 (>1.0) @ 10	2.4 (<3.0) @ 20	High Efficiency, Tinted, Diffused Lens	58K2464	0.140
● TLHG4601	2.4 (<3.0)	Green (565nm)	3.5 (>1.6) @ 10	2.4 (<3.0) @ 20	High Efficiency, Tinted, Diffused Lens	33C1279	0.140
● TLHG4605	2.4 (<3.0)	Green (565nm)	6.0 (>4.0) @ 10	2.4 (<3.0) @ 20	High Efficiency, Tinted, Diffused Lens	33C1280	0.122
● TLHE4600	1.9 (<2.6)	Yellow (590nm)	26 (>10) @ 10	1.9 (<2.6) @ 20	High Intensity, Tinted, Diffused Lens	60K6981	0.189
● TLHF4600	1.9 (<2.6)	Soft Orange (610nm)	26 (>10) @ 10	1.9 (<2.6) @ 20	High Intensity, Tinted, Diffused Lens	58K2456	0.234
● TLHK4600	1.9 (<2.6)	High-Intensity Red (643nm)	15 (>6.3) @ 10	1.9 (<2.6) @ 20	High Intensity, Tinted, Diffused Lens	35C3671	0.180

T-1 ¼ (5mm), $\phi = \pm 14^\circ$

● TLHR5200	2.0 (<3.0)	High-Efficiency Red (635nm)	20 (>10) @ 10	2.0 (<3.0) @ 20	High Efficiency, Tinted, Non-Diff. Lens	33C1328	0.093
● TLHR5201	2.0 (<3.0)	High-Efficiency Red (635 nm)	30 (>16) @ 10	2.0 (<3.0) @ 20	High Efficiency, Tinted, Non-Diff. Lens	33C1329	0.096
● TLHR5205	2.0 (<3.0)	High-Efficiency Red (635nm)	40 (>25) @ 10	2.0 (<3.0) @ 20	High Efficiency, Tinted, Non-Diff. Lens	58K2486	0.103
● TLHY5200	2.4 (<3.0)	Yellow (585nm)	30 (>10) @ 10	2.4 (<3.0) @ 20	High Efficiency, Tinted, Non-Diff. Lens	58K2492	0.141
● TLHY5201	2.4 (<3.0)	Yellow (585nm)	40 (>16) @ 10	2.4 (<3.0) @ 20	High Efficiency, Tinted, Non-Diff. Lens	58K2493	0.129
● TLHG5200	2.4 (<3.0)	Green (565 nm)	30 (>16) @ 10	2.4 (<3.0) @ 20	High Efficiency, Tinted, Non-Diff. Lens	58K2466	0.114
● TLHG5201	2.4 (<3.0)	Green (565nm)	40 (>25) @ 10	2.4 (<3.0) @ 20	High Efficiency, Tinted, Non-Diff. Lens	33C1286	0.118
● TLHG5205	2.4 (<3.0)	Green (565nm)	50 (>16) @ 10	2.4 (<3.0) @ 20	High Efficiency, Tinted, Non-Diff. Lens	33C1287	0.126
● TLHR6200	2.0 (<3.0)	High-Efficiency Red (635nm)	20 (>10) @ 10	2.0 (<3.0) @ 20	High Efficiency, Tinted, Non-Diff. Lens	33C1334	0.114
● TLHR6201	2.0 (<3.0)	High-Efficiency Red (635nm)	30 (>16) @ 10	2.0 (<3.0) @ 20	High Efficiency, Tinted, Non-Diff. Lens	33C1335	0.119
● TLHR6205	2.0 (<3.0)	High-Efficiency Red (635nm)	40 (>25) @ 10	2.0 (<3.0) @ 20	High Efficiency, Tinted, Non-Diff. Lens	33C1336	0.119
● TLHY6201	2.4 (<3.0)	Yellow (585nm)	40 (>16) @ 10	2.4 (<3.0) @ 20	High Efficiency, Tinted, Non-Diff. Lens	33C1361	0.146
● TLHG6200	2.4 (<3.0)	Green (565nm)	30 (>16) @ 10	2.4 (<3.0) @ 20	High Efficiency, Tinted, Non-Diff. Lens	33C1293	0.114
● TLHG6201	2.4 (<3.0)	Green (565 nm)	40 (>25) @ 10	2.4 (<3.0) @ 20	High Efficiency, Tinted, Non-Diff. Lens	33C1294	0.118

T-1 ¼ (5mm), $\phi = \pm 22^\circ$

● TLHB5800	3.9 (<4.5)	Blue (428nm)	380 (>130) @ 20	3.9 (<4.5) @ 20	High Efficiency, Untinted, Non-Diff. Lens	95B4836	0.719
● TLHB5801	3.9 (<4.5)	Blue (428nm)	640 (>240) @ 20	3.9 (<4.5) @ 20	High Efficiency, Untinted, Non-Diff. Lens	58K2449	0.744

T-1 ¼ (5mm), $\phi = \pm 30^\circ$

● TLDR5400	1.8 (<2.2)	High-Intensity Red (650nm)	70 (>35) @ 20	1.8 (<2.2) @ 20	High Intensity, Tinted, Diffused Lens	58K2443	0.253
● TLHR5401	2.0 (<3.0)	High-Efficiency Red (635nm)	7.0 (>4.0) @ 10	2.0 (<3.0) @ 20	High Efficiency, Tinted, Diffused Lens	58K2487	0.099
● TLHR5405	2.0 (<3.0)	High-Efficiency Red (635nm)	10.0 (>6.3) @ 10	2.0 (<3.0) @ 20	High Efficiency, Tinted, Diffused Lens	33C1333	0.106
● TLHY5400	2.4 (<3.0)	Yellow (585nm)	3.5 (>1.6) @ 10	2.4 (<3.0) @ 20	High Efficiency, Tinted, Diffused Lens	58K2494	0.141
● TLHY5401	2.4 (<3.0)	Yellow (585nm)	7.0 (>4.0) @ 10	2.4 (<3.0) @ 20	High Efficiency, Tinted, Diffused Lens	33C1357	0.146
● TLHY5405	2.4 (<3.0)	Yellow (585nm)	10.0 (>6.3) @ 10	2.4 (<3.0) @ 20	High Efficiency, Tinted, Diffused Lens	33C1358	0.156
● TLHG5400	2.4 (<3.0)	Green (565nm)	4.0 (>1.6) @ 10	2.4 (<3.0) @ 20	High Efficiency, Tinted, Diffused Lens	33C1289	0.117
● TLHG5401	2.4 (<3.0)	Green (565 nm)	7.0 (>4.0) @ 10	2.4 (<3.0) @ 20	High Efficiency, Tinted, Diffused Lens	33C1290	0.121
● TLHG5405	2.4 (<3.0)	Green (565nm)	15.0 (>6.3) @ 10	2.4 (<3.0) @ 20	High Efficiency, Tinted, Diffused Lens	58K2467	0.129
● TLHR6400	2.0 (<3.0)	High-Efficiency Red (635nm)	3.5 (>1.6) @ 10	2.0 (<3.0) @ 20	High Efficiency, Tinted, Diffused Lens	33C1337	0.114
● TLHR6401	2.0 (<3.0)	High-Efficiency Red (635 nm)	7.0 (>4.0) @ 10	2.0 (<3.0) @ 20	High Efficiency, Tinted, Diffused Lens	33C1338	0.116
● TLHR6405	2.0 (<3.0)	High-Efficiency Red (635nm)	10.0 (>6.3) @ 10	2.0 (<3.0) @ 20	High Efficiency, Tinted, Diffused Lens	33C1339	0.104
● TLHY6400	2.4 (<3.0)	Yellow (585nm)	3.5 (>1.6) @ 10	2.4 (<3.0) @ 20	High Efficiency, Tinted, Diffused Lens	33C1362	0.141
● TLHY6401	2.4 (<3.0)	Yellow (585nm)	7.0 (>4.0) @ 10	2.4 (<3.0) @ 20	High Efficiency, Tinted, Diffused Lens	33C1363	0.146
● TLHY6405	2.4 (<3.0)	Yellow (585nm)	10.0 (>6.3) @ 10	2.4 (<3.0) @ 20	High Efficiency, Tinted, Diffused Lens	33C1364	0.156
● TLHG6400	2.4 (<3.0)	Green (565nm)	4.0 (>1.6) @ 10	2.4 (<3.0) @ 20	High Efficiency, Tinted, Diffused Lens	58K2469	0.117
● TLHG6401	2.4 (<3.0)	Green (565nm)	7.0 (>4.0) @ 10	2.4 (<3.0) @ 20	High Efficiency, Tinted, Diffused Lens	33C1296	0.121
● TLHG6405	2.4 (<3.0)	Green (565nm)	15.0 (>6.3) @ 10	2.4 (<3.0) @ 20	High Efficiency, Tinted, Diffused Lens	58K2470	0.129
● TLHB5400	3.9 (<4.5)	Blue (428nm)	15 (>6.3) @ 20	3.9 (<4.5) @ 20	High Efficiency, Tinted, Diffused Lens	59K0279	0.720
● TLHB5401	3.9 (<4.5)	Blue (428nm)	32 (>10) @ 20	3.9 (<4.5) @ 20	High Efficiency, Tinted, Diffused Lens	33C1263	0.744
● TLHE5400	2.0 (<2.6)	Yellow (590nm)	60 (>16) @ 10	2.0 (<2.6) @ 20	High Intensity, Tinted, Diffused Lens	58K2453	0.216
● TLHF5400	2.0 (<2.6)	Soft Orange (610nm)	60 (>16) @ 10	2.0 (<2.6) @ 20	High Intensity, Tinted, Diffused Lens	58K2458	0.240
● TLHK5400	2.0 (<2.6)	High-Intensity Red (643 nm)	26 (>10) @ 10	2.0 (<2.6) @ 20	High Intensity, Tinted, Diffused Lens	58K2474	0.190
● TLUR5400	1.6 (<2.0)	Red (660 nm)	0.8 (>0.4) @ 10	1.6 (<2.0) @ 20	Universal Red, Tinted, Diffused Lens	33C1439	0.105
● TLUR5401	1.6 (<2.0)	Red (660 nm)	2.5 (>1.0) @ 10	1.6 (<2.0) @ 20	Universal Red, Tinted, Diffused Lens	33C1440	0.099
● TLUR6400	1.6 (<2.0)	Red (660 nm)	0.8 (>0.4) @ 10	1.6 (<2.0) @ 20	Universal Red, Tinted, Diffused Lens	33C1441	0.095
● TLUR6401	1.6 (<2.0)	Red (660 nm)	2.5 (>1.0) @ 10	1.6 (<2.0) @ 20	Universal Red, Tinted, Diffused Lens	33C1442	0.096

T-1 ¼ (5mm), $\phi = \pm 4^\circ$

● TLDR5800	1.8 (<2.2)	High-Intensity Red (650 nm)	2500 (>1000) @ 20	1.8 (<2.2) @ 20	High Intensity, Untinted, Non-Diff. Lens	58K2444	0.253
● TLHY5800	2.4 (<3.0)	Yellow (585 nm)	250 (>100) @ 20	2.4 (<3.0) @ 20	High Efficiency, Untinted, Non-Diff. Lens	58K2495	0.141

➤ CONTINUED ➤

THROUGH-HOLE LEDS

STANDARD LEDS (CONT.)

T-1 3/4 (5mm), $\phi = \pm 4^\circ$

Mfg. Part No.	V _F (V)	Color (Wavelength)	Luminous Intensity I _v @ I _F (mcd, mA)	V _F @ I _F (V, mA)	Product Series	Stock No.	Price Each
● TLHG5800	2.4 (<3.0)	Green (565 nm)	700 (>400) @ 20	2.4 (<3.0) @ 20	High Efficiency, Untinted, Non-Diff. Lens	58K2468	0.122
● TLHP5800	2.4 (<3.0)	Pure Green (555 nm)	85 (>25) @ 20	2.4 (<3.0) @ 20	High Efficiency, Untinted, Non-Diff. Lens	59K0281	0.154
● TLHE5800	2.0 (<2.6)	Yellow (590 nm)	3500 (>1000) @ 20	2.0 (<2.6) @ 20	High Intensity, Untinted, Non-Diff. Lens	58K2454	0.206
● TLHF5800	2.0 (<2.6)	Orange (605 nm)	3500 (>1000) @ 20	2.0 (<2.6) @ 20	High Intensity, Untinted, Non-Diff. Lens	58K2459	0.240
● TLHK5800	1.9 (<2.6)	Red (643 nm)	2500 (>1000) @ 10	1.9 (<2.6) @ 20	High Intensity, Untinted, Non-Diff. Lens	33C1304	0.186

T-1 3/4 (5mm), $\phi = \pm 9^\circ$

● TLHK5100	1.9 (<2.6)	Red (643 nm)	(>320) @ 20	1.9 (<2.6) @ 20	High Intensity, Untinted, Non-Diff. Lens	33C1301	0.186
● TLHE5100	2.0 (<2.6)	Yellow (590 nm)	(>750) @ 20	2.0 (<2.6) @ 20	High Intensity, Untinted, Non-Diff. Lens	58K2452	0.203
● TLHE5102	2.0 (<2.6)	Yellow (590 nm)	2000 (>750) @ 20	2.0 (<2.6) @ 20	High Intensity, Untinted, Non-Diff. Lens	33C1268	0.217
● TLHG5100	2.4 (<3.0)	Green (565 nm)	(>240) @ 20	2.4 (<3.0) @ 20	High Intensity, Untinted, Non-Diff. Lens	33C1282	0.129
● TLHG5101	2.4 (<3.0)	Green (565 nm)	480 (>240) @ 20	2.4 (<3.0) @ 20	High Intensity, Untinted, Non-Diff. Lens	33C1283	0.134
● TLHG5102	2.4 (<3.0)	Green (565 nm)	640 (>240) @ 20	2.4 (<3.0) @ 20	High Intensity, Untinted, Non-Diff. Lens	33C1284	0.138
● TLHB5100	3.9 (<4.5)	Blue (428 nm)	210 (>66) @ 20	3.9 (<4.5) @ 20	High Efficiency, Untinted, Non-Diff. Lens	58K2448	1.030
● TLHB5102	3.9 (<4.5)	Blue (428 nm)	360 (>130) @ 20	3.9 (<4.5) @ 20	High Efficiency, Untinted, Non-Diff. Lens	33C1262	0.744

T-1 3/4 (1.8mm), $\phi = \pm 20^\circ$

● TLUR2400	1.6 (<2.0)	Red (660 nm)	0.8 (>0.4) @ 10	1.6 (<2.0) @ 20	Standard LEDs T 3/4 (1.8 mm) Mini-Plast	33C1435	0.141
● TLUR2401	1.6 (<2.0)	Red (660 nm)	1.5 (>1.0) @ 10	1.6 (<2.0) @ 20	Standard LEDs T 3/4 (1.8 mm) Mini-Plast	33C1436	0.141
● TLUO2400	2.4 (<3.0)	High-Efficiency Red (635 nm)	2.0 (>1.6) @ 10	2.4 (<3.0) @ 20	Standard LEDs T 3/4 (1.8 mm) Mini-Plast	33C1433	0.159
● TLUO2401	2.4 (<3.0)	High-Efficiency Red (635 nm)	5.0 (>4.0) @ 10	2.4 (<3.0) @ 20	Standard LEDs T 3/4 (1.8 mm) Mini-Plast	33C1434	0.166
● TLUY2400	2.4 (<3.0)	Yellow (585 nm)	4.0 (>1.4) @ 10	2.4 (<3.0) @ 20	Standard LEDs T 3/4 (1.8 mm) Mini-Plast	33C1444	0.167
● TLUY2401	2.4 (<3.0)	Yellow (585 nm)	8.0 (>2.5) @ 10	2.4 (<3.0) @ 20	Standard LEDs T 3/4 (1.8 mm) Mini-Plast	33C1445	0.171
● TLUG2400	2.4 (<3.0)	Green (565 nm)	5.0 (>1.6) @ 10	2.4 (<3.0) @ 20	Standard LEDs T 3/4 (1.8 mm) Mini-Plast	33C1431	0.168
● TLUG2401	2.4 (<3.0)	Green (565 nm)	12.0 (>4.0) @ 10	2.4 (<3.0) @ 20	Standard LEDs T 3/4 (1.8 mm) Mini-Plast	33C1432	0.176

(69020)

TELUX™ LEDS

Features

- Utilizing (AS) AlInGaP and InGaN Technologies
- High Luminous Flux

Applications

- Exterior Lighting, Dashboard Illumination, Traffic Signals and Signs, and Replaces Incandescent Lamps



TELUX™ series is a clear, non-diffused LED for high-end applications where supreme luminous flux is required. Designed in an industry standard 7.62mm square package. The supreme heat dissipation of TELUX™ allows applications at high-ambient temperatures.

 $\pm 30^\circ$

Mfg. Part No.	Color	Lum. Flux (lm)	V _F (V)	Angle of Half Intensity (°)	Stock No.	Price Each
● TLWY7600	Yellow	1400	2.1	30	07C1059	0.316
● TLWR7600	Red	2100	2.2	30	07C1056	0.313
● TLWO7600	Soft Orange	2100	2.2	30	33C1456	1.080
● TLWY8600	Yellow	3000	2.1	30	22H1284	0.371
● TLWR8600	Red	3000	2.2	30	22H1281	0.371
● VLWV9600	White	1000	4.3	30	06M6114	1.250
● TLWTG8600	True Green	2000	4.4	30	97H3995	1.170
● TLWR9600	Red	3200	2.2	30	22H1282	0.589
● TLWR9900	Red	3200	2.2	30	22H1283	0.499

 $\pm 45^\circ$

● TLWY7900	Yellow	1400	2.1	45	33C1461	0.316
● TLWR7900	Red	2100	2.2	45	33C1458	0.313
● TLWR8900	Red	3000	2.2	45	96H8747	0.371

(69019)

LOW-CURRENT LEDS

T-1 (3mm), $\phi = \pm 25^\circ$

Mfg. Part No.	V _F (V)	Color Wavelength	Lum. Intens. I _v @ I _F (mcd, mA)	V _F @ I _F (V, mA)	Product Series	Stock No.	Price Each
● TLLR4400	1.9 (<2.4)	High-Efficiency Red (635 nm)	1.2 (>0.63) @ 2	1.9 (<2.4) @ 2	(3mm) Tinted Diff.	33C1369	0.309
● TLLR4401	1.9 (<2.4)	High-Efficiency Red (635 nm)	2.0 (>1.0) @ 2	1.9 (<2.4) @ 2	(3mm) Tinted Diff.	58K2498	0.320
● TLLY4400	2.4 (<2.9)	Yellow (585 nm)	1.2 (>0.63) @ 2	2.4 (<2.9) @ 2	(3mm) Tinted Diff.	58K2501	0.308
● TLLY4401	2.4 (<2.9)	Yellow (585 nm)	2.0 (>1.0) @ 2	2.4 (<2.9) @ 2	(3mm) Tinted Diff.	58K2502	0.319

➔ CONTINUED ➔

LOW-CURRENT LEDS (CONT.)

Mfg. Part No.	V _F (V)	Color Wavelength	Lum. Intens. I _v @ I _F (mcd, mA)	V _F @ I _F (V, mA)	Product Series	Stock No.	Price Each
● TLLG4400	1.9 (<2.4)	Green (565 nm)	1.2 (>0.63) @ 2	1.9 (<2.4) @ 2	(3mm) Tinted Diff.	58K2496	0.272
● TLLG4401	1.9 (<2.4)	Green (565 nm)	2.0 (>1.0) @ 2	1.9 (<2.4) @ 2	(3mm) Tinted Diff.	59K0282	0.281

T-1 3/4 (5mm), $\phi = \pm 25^\circ$

● TLLR5400	1.9 (<2.4)	High-Efficiency Red (635 nm)	1.2 (>0.63) @ 2	1.9 (<2.4) @ 2	(5mm) Tinted Diff.	58K2499	0.309
● TLLR5401	1.9 (<2.4)	High-Efficiency red (635 nm)	2.0 (>1.0) @ 2	1.9 (<2.4) @ 2	(5mm) Tinted Diff.	58K2500	0.320
● TLLY5400	2.4 (<2.9)	Yellow (585 nm)	1.2 (>0.63) @ 2	2.4 (<2.9) @ 2	(5mm) Tinted Diff.	33C1375	0.308
● TLLY5401	2.4 (<2.9)	Yellow (585 nm)	2.0 (>1.0) @ 2	2.4 (<2.9) @ 2	(5mm) Tinted Diff.	58K2503	0.319
● TLLG5400	1.9 (<2.4)	Green (565 nm)	1.2 (>0.63) @ 2	1.9 (<2.4) @ 2	(5mm) Tinted Diff.	33C1367	0.272
● TLLG5401	1.9 (<2.4)	Green (565 nm)	2.0 (>1.0) @ 2	1.9 (<2.4) @ 2	(5mm) Tinted Diff.	58K2497	0.281

(74695)

LED LAMPS Just Added



Applications:

- Commercial Outdoor Sign Board
- Front Panel Indicator
- Dot-Matrix Module
- LED Bulb

Features:

- Low Power Consumption
- High Intensity
- I.C. Compatible

Mfg. Part No.	Color	Wavelength Typ. (nm)	Luminous Intensity (mcd)	Viewing Angle (°)	Stock No.	Price Each
● VAOL-3GAE4	Red	640	150	30	57P7111	0.128
● VAOL-3GCE4	Yellow	590	150	30	57P7112	0.136
● VAOL-3GDE4	Green	570	170	30	57P7113	0.128
● VAOL-3GSBY4	Blue	470	2500	30	57P7114	0.296
● VAOL-3GWY4	White	...	3500	30	57P7115	0.361
● VAOL-3LSBY4	Blue	470	1200	60	57P7126	0.296
● VAOL-3LWY4	White	...	2500	60	57P7127	0.361
● VAOL-5701AE4	Red	640	85	100	57P7148	0.136
● VAOL-5701CE4	Yellow	590	80	100	57P7149	0.144
● VAOL-5701DE4	Green	570	100	100	57P7150	0.136
● VAOL-5701SBY4	Blue	470	1000	100	57P7151	0.304
● VAOL-5701WY4	White	...	1800	100	57P7152	0.369
● VAOL-5GAE4	Red	643	250	30	57P7132	0.128
● VAOL-5GCE4	Yellow	590	380	30	41P0241	0.136
● VAOL-5GDE4	Green	570	380	30	41P0243	0.128
● VAOL-5GSBY4	Blue	470	7000	30	57P7133	0.296

➔ CONTINUED ➔

THROUGH-HOLE LEDS • LED ARRAYS & MODULES

LED LAMPS (CONT.)

Mfg. Part No.	Color	Wavelength Typ. (nm)	Luminous Intensity (mcd)	Viewing Angle (°)	Stock No.	Price Each
● VAOL-5GWY4	White	...	7000	30	50P9329	0.361
● VAOL-5LSBY4	Blue	470	1500	60	57P7142	0.296
● VAOL-5LWY4	White	...	5000	60	57P7143	0.361
● VAOL-10GAT4	Red	655	480	30	57P7106	0.174
● VAOL-10GCE4	Yellow	593	200	30	57P7107	0.185
● VAOL-10GDE4	Green	570	350	30	57P7108	0.174
● VAOL-10GSBY4	Blue	470	7000	30	57P7109	0.383
● VAOL-10GWY4	White	...	8000	30	57P7110	0.434

(147897)

HIGH POWER LED LIGHT STRIP


AVAGO
TECHNOLOGIES

Features

- Various options with different number of LEDs on MCPCB to meet different lighting output requirement
- Energy efficient
- Exposed pad for excellent heat transfer
- Integrated heat sink to simplify thermal management design for efficient heat dissipation
- Long operation life
- Silicone encapsulation
- Ease of mechanical mounting
- Plug & Play assembly for ease of installation

Specifications

- Wide viewing angle: 110°
- InGaN technology
- Smooth wide radiation pattern

Applications

- Reading light
- Architectural & • Decorative lighting
- Backlighting
- Task lighting
- Safety / Emergency lighting

- Recommend Female Connector: Tyco 173977-2, Newark part #92F8369

- Illumination in vending machine & machine vision equipment
- Refrigeration lighting
- Retail lighting

Dimensions (mm)

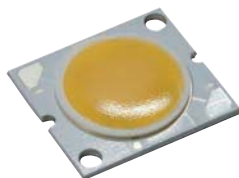
Part No. Prefix	Width	Length	LED Spacing
ADJD-WM00	20	100	33
ADJD-WM01	40	140	50
ADJD-WM10	40	200	50
ADJD-WM21	40	290	50
ADJD-WM30	35	290	32.2
ADJD-WM40	35	290	24.2

Mnf. Part No.	# of LEDs	Color	Lum. Flux (lm)	Driving Condition	Forward Current (mA)	Stock No.	Price Each
● ADJD-WM00-NKKZ0	3	White	60	Current	350	58M3618	47.250
● ADJD-WM01-NKKZ0	3	White	60	Voltage*	350	58M3619	47.250
● ADJD-WM10-NKKZ0	4	White	60	Current	350	58M3620	53.440
● ADJD-WM21-NKKZ0	6	White	60	Voltage*	350	58M3621	64.130
● ADJD-WM30-NKKZ0	9	White	60	Current	350	58M3622	84.380
● ADJD-WM40-NKKZ0	12	White	60	Current	350	58M3623	101.250
● ADJD-YM00-NJJZ0	3	Warm White	50	Current	350	58M3624	47.250
● ADJD-YM01-NJJZ0	3	Warm White	50	Voltage*	350	58M3625	47.250
● ADJD-YM10-NJJZ0	4	Warm White	50	Current	350	58M3626	53.440
● ADJD-YM21-NJJZ0	6	Warm White	50	Voltage*	350	58M3627	65.550
● ADJD-YM30-NJJZ0	9	Warm White	50	Current	350	58M3628	86.630

*Input Voltage = 12 VDC, Contains resistors
(133277)

2000 lm HIGH BRIGHTNESS LED ARRAYS

NEW TECHNOLOGY

BRIDGELUX
The Magic of Light™


Features:

- Typ Luminous Flux (lm) at Tj=25°C: 2200
- Typ Luminous Flux (lm) at Hot Lumen Tcase-60°C: 2000
- Compact High Flux Density Light Source
- Uniform High Quality Illumination
- Uniform Consistent White Light
- Streamlined Thermal Path
- Energy Star / ANSI Compliant Binning Structure
- More Energy Efficient Than Incandescent, Halogen and Some Fluorescent Lamps
- Low Voltage DC Operation
- Instant Light With Unlimited Dimming
- Long Operating Life
- RoHS Compliant and Pb Free

Bridgelux LED Arrays have been specifically developed to provide lamp and luminaire manufacturers with a solution that will simplify system level integration, further reducing system cost. Typical applications include task, accent, track, down light, wide area, security as well as other hospitality, architectural, commercial and industrial lighting. Bridgelux LED Arrays have been developed with a focus on uniform and high quality light, improved energy efficiency and environmentally friendly packaging.

Mfg. Part No.	Color Temp. (CCT)	Forward Current (mA)	Forward Voltage (V)	Thermal Res. (°C/W)	Stock No.	Price Each
BXRA-C2000-00000	5600K	1750	16.6	0.5	45P5611	40.000

(138989)

1200 lm HIGH BRIGHTNESS LED ARRAYS

NEW TECHNOLOGY

BRIDGELUX
The Magic of Light™


Features:

- Typ Luminous Flux (lm) at Tj=25°C: 1320
- Typ Luminous Flux (lm) at Hot Lumen Tcase-60°C: 1200
- Compact High Flux Density Light Source
- Uniform High Quality Illumination
- Uniform Consistent White Light
- Streamlined Thermal Path
- Energy Star / ANSI Compliant Binning Structure
- More Energy Efficient Than Incandescent, Halogen and Some Fluorescent Lamps
- Low Voltage DC Operation
- Instant Light With Unlimited Dimming
- Long Operating Life
- RoHS Compliant and Pb Free

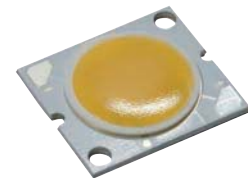
Bridgelux LED Arrays have been specifically developed to provide lamp and luminaire manufacturers with a solution that will simplify system level integration, further reducing system cost. Typical applications include task, accent, track, down light, wide area, security as well as other hospitality, architectural, commercial and industrial lighting. Bridgelux LED Arrays have been developed with a focus on uniform and high quality light, improved energy efficiency and environmentally friendly packaging.

Mfg. Part No.	Color Temp. (CCT)	Forward Current (mA)	Forward Voltage (V)	Thermal Res. (°C/W)	Stock No.	Price Each
BXRA-W1200-00000	3000K	1600	16.4	0.5	45P5617	44.400
BXRA-N1200-00000	4100K	1400	16.2	0.5	45P5612	44.400
BXRA-C1200-00000	5600K	1300	13.2	0.7	45P5610	26.400

(138990)

800 lm HIGH BRIGHTNESS LED ARRAYS

NEW TECHNOLOGY

BRIDGELUX
The Magic of Light™


Features:

- Typ Luminous Flux (lm) at Tj=25°C: 880
- Typ Luminous Flux (lm) at Hot Lumen Tcase-60°C: 800
- Compact High Flux Density Light Source
- Uniform High Quality Illumination
- Uniform Consistent White Light
- Streamlined Thermal Path
- Energy Star / ANSI Compliant Binning Structure
- More Energy Efficient Than Incandescent, Halogen and Some Fluorescent Lamps
- Low Voltage DC Operation
- Instant Light With Unlimited Dimming
- Long Operating Life
- RoHS Compliant and Pb Free

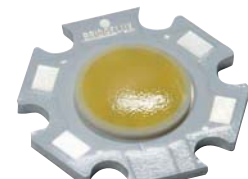
Bridgelux LED Arrays have been specifically developed to provide lamp and luminaire manufacturers with a solution that will simplify system level integration, further reducing system cost. Typical applications include task, accent, track, down light, wide area, security as well as other hospitality, architectural, commercial and industrial lighting. Bridgelux LED Arrays have been developed with a focus on uniform and high quality light, improved energy efficiency and environmentally friendly packaging.

Mfg. Part No.	Color Temp. (CCT)	Forward Current (mA)	Forward Voltage (V)	Thermal Res. (°C/W)	Stock No.	Price Each
BXRA-W0800-00000	3000K	1300	13.2	0.7	45P5616	32.000
BXRA-N0800-00000	4100K	1200	13	0.7	45P5614	32.000
BXRA-C0800-00000	5600K	900	13	0.8	45P5609	20.000

(138997)

400 lm HIGH BRIGHTNESS LED ARRAYS

NEW TECHNOLOGY

BRIDGELUX
The Magic of Light™


Features:

- Typ Luminous Flux (lm) at Tj=25°C: 440
- Typ Luminous Flux (lm) at Hot Lumen Tcase-60°C: 400
- Compact High Flux Density Light Source
- Uniform High Quality Illumination
- Uniform Consistent White Light
- Streamlined Thermal Path
- Energy Star / ANSI Compliant Binning Structure
- More Energy Efficient Than Incandescent, Halogen and Some Fluorescent Lamps
- Low Voltage DC Operation
- Instant Light With Unlimited Dimming
- Long Operating Life
- RoHS Compliant and Pb Free

Bridgelux LED Arrays have been specifically developed to provide lamp and luminaire manufacturers with a solution that will simplify system level integration, further reducing system cost. Typical applications include task, accent, track, down light, wide area, security as well as other hospitality, architectural, commercial and industrial lighting. Bridgelux LED Arrays have been developed with a focus on uniform and high quality light, improved energy efficiency and environmentally friendly packaging.

Mfg. Part No.	Color Temp. (CCT)	Forward Current (mA)	Forward Voltage (V)	Thermal Res. (°C/W)	Stock No.	Price Each
BXRA-W0400-00000	3000K	900	9.8	1	45P5615	18.000
BXRA-N0400-00000	4100K	800	9.7	1	45P5613	18.000
BXRA-C0400-00000	5600K	600	9.8	1.5	45P5608	12.000

(138998)

LED ARRAYS & MODULES

3 W LED
MODULES

Just Added



Mfg. Part No.	Color	Luminous Intensity (mcd)	Stock No.	Price Each
				1-24
● ILL3A0001A	White	64	05M0369	35.170
● ILL3A0001B	White	40	05M0370	34.680
● ILL3A0001C	Blue	19	05M0371	32.850
● ILL3A0001E	Green	52	05M0373	32.850
● ILL3A0001H	White	64	05M0376	35.170
● ILL3B0001G	Red	52	05M0375	37.490
● ILL3B0001I	White	40	05M0377	34.680

(133278)

8 W LED STRIP
MODULES

Just Added



Mfg. Part No.	Color	Luminous Intensity (mcd)	Stock No.	Price Each
				1-9
● ILL2A0005A	White	75	05M0362	121.360

(133279)

14 W LED
MODULES

Just Added



Mfg. Part No.	Color	Luminous Intensity (mcd)	Stock No.	Price Each
				1-9
● ILL3A0002A	White	320	05M0383	158.690
● ILL3A0002B	White	200	05M0384	112.060
● ILL3A0002F	Amber	240	05M0388	158.870
● ILL3A0002H	White	320	05M0390	158.690
● ILL3A0002I	White	200	05M0391	155.510

(133273)

CIRCULAR
ARRAYS

Dialight



The LumiSpots LSP series circular LED arrays are designed to operate off Dialight Microdrivers (or other 350ma max constant current drivers) and are ideal for a myriad of OEM solutions. They can be driven either singly or in multiples, and are available in various LED colors and optic angles to increase the level of flexibility in lighting design. The LSP series contain (STRIKE "optics and") and optic holders from the F-Form range. The optic holders are white to match the surface of the PCBs, which helps to maximize light output and accept Spot, medium, wide or oval lenses (purchased separately) giving you a choice of optical patterns. All lenses are made of optical grade PMMA (acrylics) to ensure excellent optical properties as well as long-term material stability and durability.

LumiSpots® CIRCULAR LED ARRAYS

Mfg. Part No.	LEDs	Power (W)	Luminous Flux (lm)*	Color	Stock No.	Price Each
						1-24
● LSP1-WW-XXX	1	1	14	White	20M5568	18.350
● LSP1-W-XXX	1	1	17	White	20M5567	18.350
● LSP3-B-XXX	3	3	315mW	Blue	20M5569	54.380
● LSP3-G-XXX	3	3	63	Green	20M5570	54.380
● LSP3-R-XXX	3	3	90	Red	20M5571	51.220
● LSP3-WW-XXX	3	3	42	White	20M5573	59.120
● LSP3-W-XXX	3	3	51	White	20M5572	59.120
● LSP6-B-XXX	6	6	630mW	Blue	20M5574	89.280
● LSP6-G-XXX	6	6	126	Green	20M5575	89.280
● LSP6-R-XXX	6	6	180	Red	20M5576	82.230
● LSP6-WW-XXX	6	6	82	White	20M5578	99.490
● LSP6-W-XXX	6	6	102	White	20M5577	99.490
● LSP9-B-XXX	9	9	945mW	Blue	20M5579	117.960
● LSP9-G-XXX	9	9	189	Green	20M5580	117.960
● LSP9-R-XXX	9	9	270	Red	20M5581	107.740
● LSP9-WW-XXX	9	9	126	White	20M5583	133.280
● LSP9-W-XXX	9	9	153	White	20M5582	133.280

F-FORM LENSES

Mfg. Part No.	Half Divergence Angle (°)	Description	Stock No.	Price Each
				1-24
● OP-005	5	20mm Series Spot Optic	20M5632	1.280
● OP-015	15	20mm Series Medium Optic	20M5633	1.280

➔ CONTINUED ➔

CIRCULAR ARRAYS (CONT.)

Mfg. Part No.	Half Divergence Angle (°)	Description	Stock No.	Price Each
				1-24
● OP-025	25	20mm Series Wide Optic	20M5634	1.280
● OP-520	5 x 20	20mm Series Oval Optic	20M5635	1.280

* Results are LUXEON I test data at 25°C junction temperature. Light output at 55°C PCB temp will be approximately 15-20% lower. Elevated temperatures will result in further degradation of light output. For optimal performance use appropriate heat sinking.
(90061)

LINEAR ARRAYS



Dialight



The LumiLights LLT series and LumiLines LLN series linear LED arrays are designed to complement Dialights' wide range of 350ma output MicroDriver power supplies and are ideal for a myriad of OEM solutions. They can be driven either singly or in multiples, giving an increased level of flexibility in lighting design. The PCBs can easily be solder-linked end-to-end. The LLT series are designed without optics for those applications which require a wide angle spread of light. The LLN series contain "STRIKE" optics and optic holders from the F-Form range. These optic holders accept OP series spot, medium, flood & oval lenses which can be purchased and installed separately, giving you a choice of optical patterns. The optic holders are white to match the surface of the PCBs, which helps to maximize light output. All lenses are made of optical grade PMMA (acrylics) to ensure excellent optical properties as well as long-term material stability and durability.

LumiLights® LEDs - WITHOUT OPTICS (324 x 13.5mm)

Mfg. Part No.	LEDs	Power (W)	Luminous Flux (lm)*	Color	Stock No.	Price Each
						1-24
● LLT3-A	3	3	75	Amber	20M5545	38.020
● LLT3-B	3	3	315mW	Blue	20M5546	41.420
● LLT3-G	3	3	63	Green	20M5547	41.420
● LLT3-R	3	3	90	Red	20M5548	38.020
● LLT3-W	3	3	51	White	20M5549	55.410
● LLT3-WW	3	3	42	White	20M5550	46.530
● LLT6-A	6	6	150	Amber	20M5551	59.920
● LLT6-B	6	6	630mW	Blue	20M5552	66.730
● LLT6-G	6	6	126	Green	20M5553	66.730
● LLT6-R	6	6	180	Red	20M5554	59.920
● LLT6-W	6	6	102	White	20M5555	76.950
● LLT6-WW	6	6	82	White	20M5556	76.950
● LLT9-A	9	9	225	Amber	20M5557	81.830
● LLT9-B	9	9	945mW	Blue	20M5558	92.050
● LLT9-G	9	9	189	Green	20M5559	92.050
● LLT9-R	9	9	270	Red	20M5560	81.830
● LLT9-W	9	9	153	White	20M5561	107.370
● LLT9-WW	9	9	126	White	20M5562	107.370

LumiLines® LEDs - WITH OPTICS (324 x 20.5mm)

● LLN3-B-XXX	3	3	315mW	Blue	20M5535	57.170
● LLN3-G-XXX	3	3	63	Green	20M5536	57.170
● LLN3-R-XXX	3	3	90	Red	20M5537	53.910
● LLN3-WW-XXX	3	3	42	White	20M5539	62.050
● LLN3-W-XXX	3	3	51	White	20M5538	62.050
● LLN9-B-XXX	9	9	945mW	Blue	20M5540	121.810
● LLN9-G-XXX	9	9	189	Green	20M5541	121.810
● LLN9-R-XXX	9	9	270	Red	20M5542	111.600
● LLN9-WW-XXX	9	9	126	White	20M5544	137.140
● LLN9-W-XXX	9	9	153	White	20M5543	137.140

F-FORM LENSES

Mfg. Part No.	Half Divergence Angle (°)	Description	Stock No.	Price Each
				1-24
● OP-005	5	20mm Series Spot Optic	20M5632	1.280
● OP-015	15	20mm Series Medium Optic	20M5633	1.280
● OP-025	25	20mm Series Wide Optic	20M5634	1.280
● OP-520	5 x 20	20mm Series Oval Optic	20M5635	1.280

* Results are LUXEON I test data at 25°C junction temperature. Light output at 55°C PCB temp will be approximately 15-20% lower. Elevated temperatures will result in further degradation of light output. For optimal performance use appropriate heat sinking.
(90060)

LED ARRAYS & MODULES • LENSES

LinkLED SYSTEM



Dialight

Features:

- Operating life in excess of 50,000 hours
- Optimised thermal management
- Compact low profile design
- Simple Plug & Socket connections
- Thermal adhesive backed PCB



The LinkLED systems are a connectorized system that are supplied in saturated colors or RGB. Engines are supplied with or without optics holders; saturated colors contain one LED, while RGB systems each contain one red, one green, and one blue LED per engine. Each engine has an input and output connector which allows the arrangement of engines in various shapes and angles. RGB linkLEDs are designed to run on Dialight-Lumidrive color drivers, single color LinkLEDs operate on Dialight-Lumidrive microdrivers or other 350mA max constant current drivers.

SINGLE COLOR SINGLE LED MODULES (38 x 14 x 8.5mm)

Mfg. Part No.	LED Color	Power (W)	Intensity	Stock No.	Price Each
					1-24
● LK1-1-A	Amber	1	36 lm	20M5529	15.520
● LK1-1-B	Blue	1	150 mW	20M5530	16.790
● LK1-1-G	Green	1	30 lm	20M5531	16.800
● LK1-1-R	Red	1	44 lm	20M5532	15.520
● LK1-1-W	White	1	25 lm	20M5533	18.700
● LK1-1-WW	White	1	20 lm	20M5534	18.700

RGB MODULES (55 x 25 x 8mm)

Mfg. Part No.	Number of LEDs	Power (W)	Intensity (Lumens)*	Stock No.	Price Each
					1-24
● LK-3-RGB	3	3	R-44; G-30; B-150mW	20M5527	44.940

RGB LED MODULES WITH OPTICS

● LKOP-RGB-XXX	3	3	R-44; G-30; B-150mW	20M5528	58.450
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RGB MODULES FOR EDGE LIGHTING (32 x 28 x 8.6mm)

● LK-3-EL-RGB	3	3	R-40; G-27; B-135mW	20M5526	46.690
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HEATSINKS

Mfg. Part No.	Description	Length (m)	Stock No.	Price Each
				1-24
● LK-HS9	9-Module Flexible Heat Sink	1	20M5525	28.790
● LK-HS12	12-Module Flexible Heat Sink	1.2	20M5524	37.510

2-WAY LinkLED LEADS AND CONNECTORS

Mfg. Part No.	Connection	Length (m)	Stock No.	Price Each
				1-24
● CT2-100	Female to Female	0.1	20M5045	1.120
● CT2-200	Female to Female	0.2	20M5046	1.190
● CT2-C	2-Way Common Connector	...	20M5043	1.420
● CT2-E300	2-Way Input Lead	0.3	20M5044	1.260

4-WAY LinkLED LEADS

● CT4-100	Female to Female	0.1	20M5050	2.280
● CT4-C	4-Way Common Connector	...	20M5047	2.110
● CT4-MLXF	4-Way Plug to 8-Way Molex Receptacle	...	20M5048	6.030
● CT4-MLXM	4-Way Plug to 8-Way Molex Plug	...	20M5049	8.130

* Results are LUXEON I test data at 25°C junction temperature. Light output at 55°C PCB temp will be approximately 15-20% lower. Elevated temperatures will result in further degradation of light output. For optimal performance use appropriate heat sinking.

LED MODULE STRIPS



A subsidiary of TT electronics plc

Features:

- Low Power Consumption
- Super Flux LED
- Waterproof (IP67)

Applications:

- Channel Letters & Signs
- Landscape lighting
- Decorative interior/exterior lighting

- Special effects stage lighting
- Large Area Back-lighting

3 LED MODULE STRIPS (30 modules / strip)

Mfg. Part No.	Color	Wavelength (nm) or CCT (K)	Illumination (lux@0.5m) Typ.	Stock No.	Price Each
					1-24
● OVM12F3R7	Red	623	20	19P2474	2.300
● OVM12F3Y7	Yellow	590	18	19P2476	2.300
● OVM12F3G7	Green	525	14	19P2473	2.380
● OVM12F3B7	Blue	470	6	19P2472	2.340
● OVM12F3W7	White	7000 K	16	19P2475	2.840

4 LED MODULE STRIPS (20 modules / strip)

● OVM18F4R7	Red	623	24	19P2479	2.940
● OVM18F4Y7	Yellow	590	22	19P2481	2.940
● OVM18F4G7	Green	525	16	19P2478	3.020
● OVM18F4B7	Blue	470	8	19P2477	2.960
● OVM18F4W7	White	7000 K	20	19P2480	4.240

(147092)

FLEXIBLE LED LIGHT STRIP



A subsidiary of TT electronics plc

Features:

- High brightness LEDs mounted on flexible circuit board
- Energy saving lighting solution
- Low power consumption

- Operating life longer than fluorescent and incandescent light sources

Applications:

- Commercial and residential decoration
- Under-counter lighting
- Media illumination
- Large area backlighting
- Small to medium channel letters
- Point-of-sale displays
- Neon replacement

This LED Light Strip is a flexible and scalable lighting solution using high brightness LEDs to supply illumination for residential, commercial, and industrial applications. Up to 16 feet (5 meters) can be operated with a single 12V power supply. Dual-sided tape provides easy installation in most indoor applications and allows many different configurations.

Mfg. Part No.	Color	Wavelength (nm) or CCT (°K)	Illumination (lux@0.5m) Typ.	Stock No.	Price Each
					1-24
OVQ12S30R7.	Red	625	32	19P2484	10.920
OVQ12S30Y7.	Yellow	590	32	19P2487	10.920
OVQ12S30G7.	Green	525	50	19P2483	12.520
OVQ12S30B7.	Blue	470	20	19P2482	11.840
● OVQ12S30W7.	White	5500 °K	68	19P2486	12.680
OVQ12S30WW7.	Warm White	3300 °K	60	19P2485	13.220

(147093)

LED POWER DRIVERS



Dialight

MDU4 & MDU9 Applications

- Architectural Lighting
- Marker and Orientation Lights
- Cove and Cornice Lighting
- Display Cases
- Spotlights
- Signage

MLV3 & MLV9 Applications

- Solar Powered Lighting
- Automotive Lighting
- Signaling
- Low Voltage Track Lighting
- Landscape Lighting



110 – 240V MICRODRIVERS

The MDU4 series Microdriver 4 LED power driver is ideal for driving up to 4 1W LEDs. The MDU9 series Microdriver 9-SC LED power driver is ideal for driving 9 1W LEDs or 4 3W LEDs. The low profile enclosure of the MDU9 incorporates integral cable grips and terminal cover enabling the unit to be directly used in ceiling voids or other internally exposed applications. All Microdrivers will work in ambient temperatures of up to 45°C. A thermal shutdown circuit will operate to protect the driver and the connected LEDs. The compact and efficient power electronics ensure optimum operation of LEDs through a highly stable constant current output.

Mfg. Part No.	Supply Voltage (VAC)		Output Current (A)	Output Power (W)		Stock No.	Price Each
	Min	Max		Min	Max		1-24
● MDU4-SC-35	110	240	0.35	1.2	5	20M5600	20.570
● MDU9-SC-3570	110	240	0.7	1.2	10.8	20M5601	34.420

LOW VOLTAGE MICRODRIVERS

The MLV3 and MLV9 series Microdriver LED power drivers are ideal for driving Luxeon LEDs from a range of low voltage power supplies. The wide ranging input voltage enables one driver solution to be used in a host of low voltage LED lighting applications. Both 350mA and 700mA versions are available allowing both 1W and 2W Luxeons to be driven. The compact and efficient power electronics ensure optimum operation of LEDs through a highly stable constant current output.

Mfg. Part No.	Supply Voltage (VAC/VDC)		Output Current (A)	Output Power (W)		Stock No.	Price Each
	Min	Max		Min	Max		1-24
● MLV3-C-35	10	28	0.35	1	3.6	20M5605	26.010
● MLV3-C-70	10	28	0.7	1	3.6	20M5606	26.010
● MLV9-C-70	12	24	0.7	4.2	12.6	20M5608	60.440

(90067)

eQuotes

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(148835)



LENSES • LIGHT PIPES

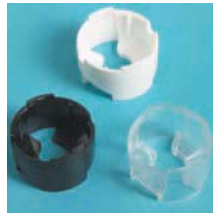
LENS SYSTEM WITH OPTICAL HOLDERS



Dialight



Lenses



Holders

These systems employ the use of a plastic holder to locate each lens precisely atop the desired LED. The holders are typically fixed to the metal-clad printed circuit board (MCPCB) using epoxy. This system provides spot, medium, wide and oval radiation patterns with interchangeable lenses that easily snap into the durable, polycarbonate plastic holder. The snap-lock fastening of the lens is very secure and does not allow the lens to move or drop out of the holder. Holders are available in white, black and clear material. The **OP-FL** Flare lenses are assembled directly on PCB without any additional holder. All lenses are made from optical grade PMMA (acrylics) to ensure excellent optical properties as well as long-term material stability and durability. OP series snap-in lenses can be added to any Dialight-Lumidrive light engine which has optics holders*.

LENS HOLDER FOR LUXEON EMITTER LEDES

Mfg. Part No.	Color	Stock No.	Price Each
			1-24
● OH-ES1-BK	Black	20M5619	0.436
● OH-ES1-CL	Clear	20M5620	0.436
● OH-ES1-WH	White	20M5621	0.436

LENS HOLDER FOR LUXEON K2 LEDES

● OH-K2-BK	Black	20M5625	0.436
● OH-K2-CL	Clear	20M5626	0.436
● OH-K2-WH	White	20M5627	0.436

LENS HOLDER FOR LUXEON STAR LEDES

● OH-S35-BK	Black	20M5628	0.436
● OH-S35-CL	Clear	20M5629	0.436
● OH-S35-WH	White	20M5630	0.436

LENS HOLDER FOR OSRAM GD LEDES

● OH-GD-BK	Black	20M5622	0.436
● OH-GD-CL	Clear	20M5623	0.436
● OH-GD-WH	White	20M5624	0.436

SNAP-IN LENS

Mfg. Part No.	Half Divergence Angle (°)	Description	Stock No.	Price Each
				1-24
● OP-005	5	20mm Series Spot Optic	20M5632	1.280
● OP-015	15	20mm Series Medium Optic	20M5633	1.280
● OP-025	25	20mm Series Wide Optic	20M5634	1.280
● OP-520	5 x 20	20mm Series Oval Optic	20M5635	1.280

FLARE OPTIC FOR LUXEON LEDs - NO HOLDERS REQUIRED

Mfg. Part No.	Vertical Half Divergence Angle (°)	Horizontal Half Divergence Angle (°)	Stock No.	Price Each
				1-24
● OP-FL	10	80	20M5631	2.950

(90070)

ADHESIVE BACKED LENSES & TRIPLE LENSES



Dialight

Designed for Luxeon, Cree, Nichia & Osram leds, the **OPK2, OPTX, OPIO** and **OPGD** series adhesive backed lenses offer three different illumination patterns: spot, wide and oval. The base lens is attached by its adhesive backing and automatically centered by placing it directly to the PCB over the LED dramatically cutting down on assembly time. The base lens is a spot beam and can be used on its own or with an OPAA clip-on sub lens to provide either a diffuse, oval or wide beam pattern. The **OPTX-3, OPK2-3, OPIO-3** and **OPGD-3** triple base are also spot lenses. If used on their own, they offer two different **OPTL** sub-lenses for micro (diffuse) or wide beam pattern. The triple base lenses are fixed over the LEDs on the PCB using locating pegs. The sub lenses attach easily to the base lens with an integral snap-lock system. All **OP** series lenses are made from optical grade PMMA (acrylics) to ensure excellent optical properties as well as long-term material stability and durability.



SPOT BASE MODULES

Mfg. Part No.	Half Divergence Angle (°)	For Use With	Stock No.	Price Each
				1-24
● OPTX-1-006	6	Cree XLamp LED	20M5671	2.210
● OPK2-1-003	3	Luxeon K2 LED	20M5667	2.210
● OPIO-1-011	11	Nichia Jupiter LED	20M5665	2.210
● OPGD-1-002	2	Osram Golden Dragon LED	20M5663	2.210

▶ CONTINUED ▶

ADHESIVE BACKED LENSES & TRIPLE LENSES (CONT.)

SUB LENS FOR SPOT BASE MODULES

Mfg. Part No.	Half Divergence Angle (°)	For Use With	Stock No.	Price Each
● OPAA-1-DF	8	Spot Base Module	20M5636	0.511
● OPAA-1-OSL	8 x 25	Spot Base Module	20M5637	0.511
● OPAA-1-WSL	16	Spot Base Module	20M5638	0.511

TRIPLE SPOT BASE MODULES

● OPTX-3-008	8	Cree XLamp LED	20M5672	4.080
● OPK2-3-006	6	Luxeon K2 LED	20M5668	4.080
● OPIO-3-011	11	Nichia Jupiter LED	20M5666	4.080
● OPGD-3-006	6	Osram Golden Dragon LED	20M5664	4.080

SUB LENS FOR TRIPLE SPOT BASE MODULES

● OPTL-3-MSL	Micro	Triple Spot Base Module	20M5669	1.920
● OPTL-3-WSL	14	Triple Spot Base Module	20M5670	1.920

(90069)

COLLIMATOR



LIGHT BY
LUXEON

Applications:

- Reading lights
- Portable
- Mini-accent/decorative
- Undershelf/task lighting
- Indoor and outdoor commercial and residential lighting



The Collimator LXHL-NX05 was designed to efficiently collimate the light of any Luxeon™ power light source into a 10° beam. The optical design of the collimator uses the Total Internal Reflection mechanism to collimate the light. This design and the use of precision-injection molding optical grade acrylic plastics bring the optical efficiency up to 90%.

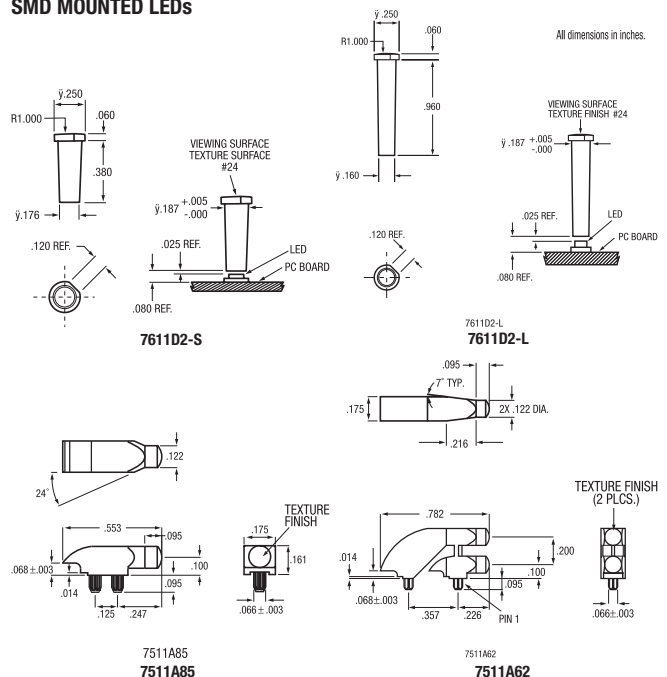
Mfg. Part No.	Description	Stock No.	Price Each
● LXHL-NX05	Luxeon Collimator	93K5852	1.980

(88644)

BRIGHT PIPE™ OPTICAL LIGHTPIPES FOR 3mm AND SMD MOUNTED LEDs



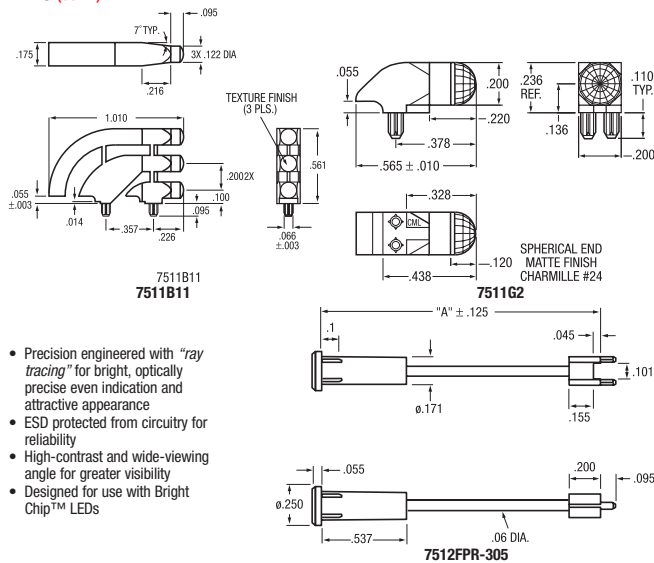
CML INNOVATIVE TECHNOLOGIES
WHERE INNOVATION COMES TO LIGHT
Formerly Chicago Miniature Lamp and S2 Miniature Lighting



▶ CONTINUED ▶

LIGHT PIPES

BRIGHT PIPE™ OPTICAL LIGHTPIPES FOR 3mm AND SMD MOUNTED LEDs (CONT.)



- Precision engineered with "ray tracing" for bright, optically precise even indication and attractive appearance
- ESD protected from circuitry for reliability
- High-contrast and wide-viewing angle for greater visibility
- Designed for use with Bright Chip™ LEDs

Mfg. part nos. 7611D2-S and 7611D2-L lightpipes are designed for panel mounting. 7511 series lightpipes are low profile and have matching center lines to allow for side-by-side mounting. Feature large lens for high visibility and parts inserted after reflow to permit LED pad inspection before assembly. Mfg. part no. 7512FPR-305 Flexpipe™ flexible optical lightpipe with precision fiber-optics for long distance SMT LED to lens. Eliminates need for precision mechanical alignment of components to panel. Feature large lens for high visibility and parts inserted after reflow to permit LED pad inspection before assembly.

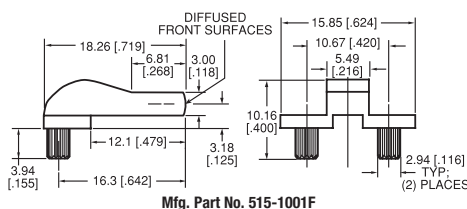
Mfg. Part No.	Description	Stock No.	Price Each	
			1-24	25-99
7511A53	Lightpipe	72C3767	0.782	0.632
● 7511A62	T-1 Right-Angle Lightpipe (2 LED High)	73H0577	0.892	0.721
● 7511A85	T-1 Right-Angle Lightpipe (1 LED)	82H9865	0.814	0.658
● 7511A86	Lightpipe	09J4559	0.711	0.575
● 7511B11	T-1 Right-Angle Lightpipe (3 LED High)	82H9871	0.821	0.663
● 7511C2	Right-Angle Clear Lightpipe	82H9873	0.708	0.572
● 7511G2	T-1 ¾ Right-Angle Lightpipe, Diffused Translucent	82H9878	1.300	1.050
● 7512FPR-305	Flexible Fiber-Optic Lightpipe, Panel Mount	82H9892	2.720	2.200
● 7611D2-S	0.380"H Vertical Lightpipe	94B5032	0.782	0.632
● 7611D2-L	0.960"H Vertical Lightpipe	73C0962	0.821	0.663

(80590)

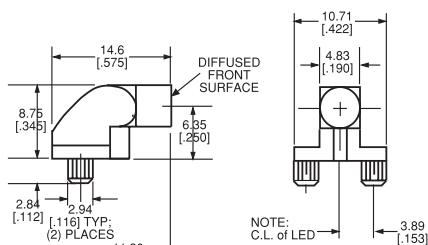
LIGHT PIPES



Dialight



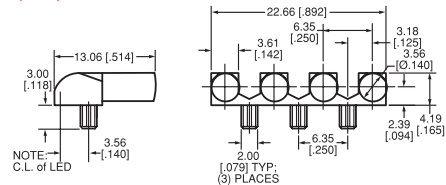
Mfg. Part No. 515-1001F



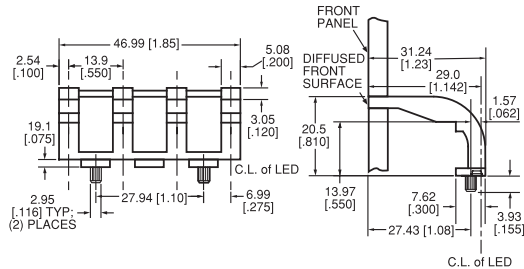
Mfg. Part No. 515-1011F

➤ CONTINUED ➤

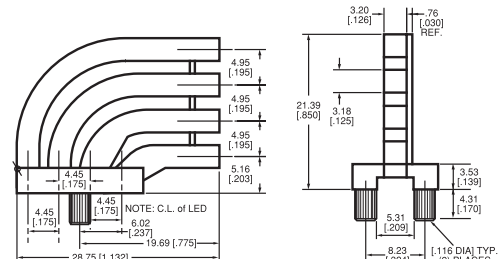
LIGHT PIPES (CONT.)



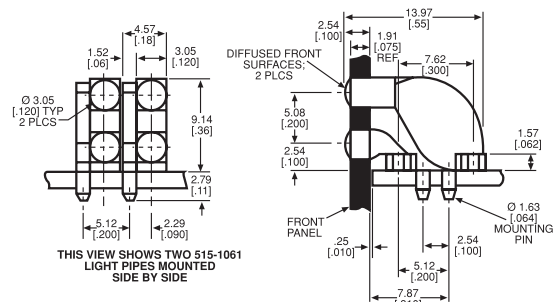
Mfg. Part No. 515-1020F



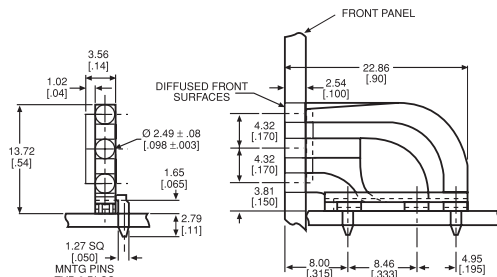
Mfg. Part No. 515-1022F



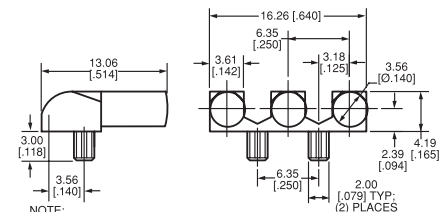
Mfg. Part No. 515-1023F



Mfg. Part No. 515-1061F



Mfg. Part No. 515-1064F



Mfg. Part No. 515-1069F

➤ CONTINUED ➤

LIGHT PIPES

LIGHT PIPES (CONT.)

Mfg. Part No.	Description	Stock No.	Price Each
● 515-1001F	Single-Element	30K0382	0.995
● 515-1011F	Single-Element	30K0391	0.853
● 515-1010F	Three-Element	30K0390	1.500
● 515-1090F	2 Element RJ45	30K0494	1.790
● 515-1094F	3mm Bi-Level 0.70" long	30K0499	0.853
● 515-1020F	3.5mm 4-Element	30K0394	1.630
● 515-1022F	4-Element RJ45	30K0403	1.790
● 515-1023F	Quad Level	30K0405	2.070
● 515-1049F	Single-Element	30K0440	1.250
● 515-1061F	3mm Bi-Level	30K0456	0.749
● 515-1064F	2.5mm Tri-Level	30K0459	1.430
● 515-1069F	3-Element	30K0470	1.430

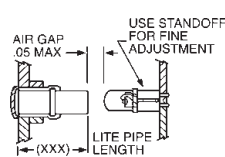
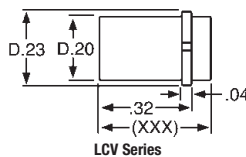
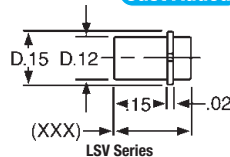
(72861)

LSV SERIES LITEPIPES
FOR PCB MOUNTED LEDs

VCC OPTOELECTRONICS



Just Added



Designed to transmit light from PCB mounted LED to panel display. Cliplite lenses provide the mounting for Litepipes and produce 180° of viewing angle. Use **mfg. part no. SMB200** lens mount for **LSV series** (3mm) Litepipes and **mfg. part no. CLB300** lens mount for **LCV series** (5mm) Litepipes, ordered separately; go online or call. For added security use retaining rings **mfg. part nos. RNG190** (3mm) and **RNG 268** (5mm), also ordered separately; go online or call.

Mfg. Part No.	Length (mm)	Mounting Hole Dia. (mm)	Stock No.	Price Each
● LSV020CTP	5.08	4.3	57P6968	0.293
● LSV040CTP	10.16	4.3	57P6969	0.293
● LSV060CTP	15.24	4.3	57P6970	0.293
● LSV080CTP	20.32	4.3	57P6971	0.293
● LSV100CTP	25.4	4.3	57P6972	0.293
● LSV120CTP	30.48	4.3	57P6973	0.293
● LCV036CTP	9.14	6.35	57P6749	0.293
● LCV056CTP	14.22	6.35	57P6750	0.293
● LCV076CTP	19.3	6.35	83H2380	0.293
● LCV096CTP	24.38	6.35	57P6751	0.293
● LCV116CTP	29.46	6.35	57P6752	0.293
● LCV136CTP	34.54	6.35	57P6753	0.293

(38270)

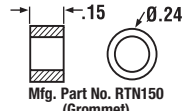
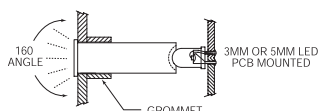
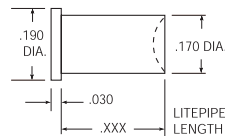
LPC SERIES LITEPIPES
FOR 3mm AND SMD
MOUNTED LEDs

VCC OPTOELECTRONICS

Just Added

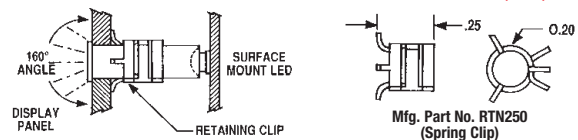


LPC



➔ CONTINUED ➔

LPC SERIES LITEPIPES FOR 3mm AND SMD MOUNTED LEDs (CONT.)



Designed to produce 160° viewing angle of light from PCB mounted LEDs. Accommodates both 3mm and surface mount LEDs. Litepipes are able to display single color devices or mix multi-colored LEDs into a single color. Sizes from 0.200" (5.08) to 2.00" (50.80). Use **mfg. part no. RTN150** grommet with sizes 0.200", (0.20) through 0.500" (0.50) **mfg. part no. RTN250** spring clip for sizes 0.500" (0.50) to 2.00" (50.80); both ordered separately below.

Mfg. Part No.	Size	Stock No.	Price Each
● LPC020CTP	0.200"	57P6762	0.373
● LPC024CTP	0.240"	57P6764	0.373
● LPC026CTP	0.260"	57P6765	0.373
● LPC028CTP	0.280"	05C4194	0.373
● LPC030CTP	0.300"	57P6766	0.373
● LPC032CTP	0.320"	57P6767	0.373
● LPC034CTP	0.340"	57P6768	0.373
● LPC036CTP	0.360"	57P6769	0.373
● LPC038CTP	0.380"	57P6770	0.373
● LPC040CTP	0.400"	57P6771	0.373
● LPC042CTP	0.420"	57P6772	0.373
● LPC044CTP	0.440"	70K9551	0.373
● LPC046CTP	0.460"	57P6773	0.373
● LPC048CTP	0.480"	57P6774	0.373
● LPC050CTP	0.500"	98B2730	0.373
● LPC052CTP	0.520"	21J8466	0.373
● LPC054CTP	0.540"	83H9033	0.373
● LPC056CTP	0.560"	57P6775	0.373
● LPC058CTP	0.580"	26H2654	0.373
● LPC060CTP	0.600"	57P6776	0.373
● LPC062CTP	0.620"	57P6777	0.373
● LPC064CTP	0.640"	37J0952	0.373
● LPC066CTP	0.660"	57P6778	0.373
● LPC068CTP	0.680"	83H5321	0.373
● LPC070CTP	0.700"	57P6779	0.373
● LPC072CTP	0.720"	57P6780	0.373
● LPC074CTP	0.740"	57P6781	0.373
● LPC076CTP	0.760"	97H8559	0.373
● LPC078CTP	0.780"	57P6782	0.373
● LPC080CTP	0.800"	57P6783	0.373
● LPC082CTP	0.820"	57P6784	0.373
● LPC084CTP	0.840"	57P6785	0.373
● LPC086CTP	0.860"	07H7502	0.373
● LPC088CTP	0.880"	57P6786	0.373
● LPC090CTP	0.900"	57P6787	0.373
● LPC092CTP	0.920"	57P6788	0.373
● LPC094CTP	0.940"	57P6789	0.373
● LPC096CTP	0.960"	57P6790	0.373
● LPC098CTP	0.980"	57P6791	0.373
● LPC100CTP	1.00"	57P6792	0.421
● LPC102CTP	1.02"	57P6793	0.421
● LPC105CTP	1.05"	57P6794	0.421
● LPC107CTP	1.07"	57P6795	0.421
● LPC110CTP	1.10"	57P6796	0.421
● LPC112CTP	1.12"	11J4006	0.421
● LPC-115-CTP	1.15"	57P6761	0.421
● LPC117CTP	1.17"	96H9957	0.421
● LPC120CTP	1.20"	57P6797	0.421
● LPC122CTP	1.22"	57P6798	0.421
● LPC125CTP	1.25"	81H4807	0.421
● LPC127CTP	1.27"	10J8931	0.421
● LPC-130-CTP	1.30"	96B7369	0.421
● LPC132CTP	1.32"	57P6799	0.421
● LPC135CTP	1.35"	57P6800	0.421
● LPC137CTP	1.37"	57P6801	0.421
● LPC140CTP	1.40"	94B1459	0.421
● LPC142CTP	1.42"	57P6802	0.421
● LPC145CTP	1.45"	57P6803	0.421
● LPC147CTP	1.47"	57P6804	0.421
● LPC150CTP	1.50"	57P6805	0.421
● LPC152CTP	1.52"	57P6806	0.421
● LPC155CTP	1.55"	57P6807	0.421
● LPC157CTP	1.57"	57P6808	0.421
● LPC160CTP	1.60"	57P6809	0.421
● LPC162CTP	1.62"	57P6810	0.421

➔ CONTINUED ➔

LIGHT PIPES • MOUNTING ACCESSORIES

LPC SERIES LITEPIPES FOR 3mm AND SMD MOUNTED LEDs (CONT.)

Mfg. Part No.	Size	Stock No.	Price Each
			1-9
● LPC165CTP	1.65"	02E2325	0.421
● LPC167CTP	1.67"	57P6811	0.421
● LPC170CTP	1.70"	90H0144	0.421
● LPC172CTP	1.72"	57P6812	0.421
● LPC175CTP	1.75"	57P6813	0.421
● LPC177CTP	1.77"	57P6814	0.421
● LPC180CTP	1.80"	57P6815	0.421
● LPC182CTP	1.82"	57P6816	0.421
● LPC185CTP	1.85"	57P6817	0.421
● LPC187CTP	1.87"	73H2764	0.421
● LPC190CTP	1.90"	16C1767	0.421
● LPC192CTP	1.92"	57P6818	0.421
● LPC195CTP	1.95"	57P6819	0.421
● LPC197CTP	1.97"	57P6820	0.421
● LPC200CTP	2.00"	57P6821	0.421

MOUNTING ACCESSORIES

Mfg. Part No.	Use With	Stock No.	Price Each
			1-9
● RTN150	LITEPIPE® with diameter of .200" to .500"	98B5279	0.076
● RTN250	LITEPIPE® with diameter of .500" to 2.00"	96B7371	0.115

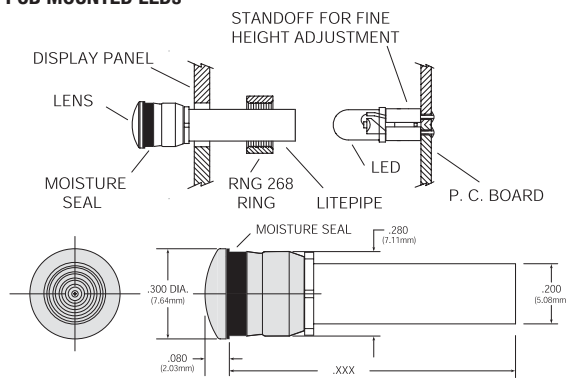
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LMS SERIES NEMA 3 MOISTURE SEALED LITEPIPE ASSEMBLIES FOR PCB MOUNTED LEDs



VCC OPTOELECTRONICS

Just Added



The LMS series NEMA 3 moisture sealed push-on lightpipes provide a method for transmitting light from surface mount, T1 and T1-3/4 LEDs. Low-profile panel lenses provide 180° viewing angle. Panel hole size: 0.283" on 0.375" centers, panel thickness 0.031"-0.125".

Mfg. Part No.	Color	Size	Stock No.	Price Each
				1-9
● LMS033RTP	Red	0.330"	56J9411	0.884
● LMS033ATP	Amber	0.330"	08N2926	0.884
● LMS033GTP	Green	0.330"	56J9409	0.884
● LMS033BTP	Blue	0.330"	08N2927	0.884
● LMS033YTP	Yellow	0.330"	08N2928	0.884
● LMS033CTP	Clear	0.330"	57J0227	1.300
● LMS053RTP	Red	0.530"	57P6760	1.280
● LMS053GTP	Green	0.530"	08N2931	0.884
● LMS053BTP	Blue	0.530"	08N2930	0.884
● LMS053CTP	Clear	0.530"	57P6760	1.280
● LMS073RTP	Red	0.730"	08N2937	0.884
● LMS073ATP	Amber	0.730"	08N2933	0.884
● LMS073GTP	Green	0.730"	08N2936	0.884
● LMS073BTP	Blue	0.730"	08N2934	0.884
● LMS073YTP	Yellow	0.730"	08N2938	0.884
● LMS073CTP	Clear	0.730"	08N2935	0.884
● LMS093RTP	Red	0.930"	08N2943	0.884
● LMS093ATP	Amber	0.930"	08N2939	0.884
● LMS093GTP	Green	0.930"	08N2942	0.884
● LMS093BTP	Blue	0.930"	08N2940	0.884
● LMS093YTP	Yellow	0.930"	08N2944	0.884
● LMS093CTP	Clear	0.930"	08N2941	0.884
● LMS113RTP	Red	1.130"	08N2947	0.884
● LMS113ATP	Amber	1.130"	08N2945	0.884

▶ CONTINUED ▶

LMS SERIES NEMA 3 MOISTURE SEALED LITEPIPE ASSEMBLIES FOR PCB MOUNTED LEDs (CONT.)

Mfg. Part No.	Color	Size	Stock No.	Price Each
				1-9
● LMS113GTP	Green	1.130"	87H8959	0.884
● LMS113BTP	Blue	1.130"	08N2946	0.884
● LMS113YTP	Yellow	1.130"	08N2948	0.884
● LMS113CTP	Clear	1.130"	89H9043	0.884
● LMS133RTP	Red	1.330"	08N2953	0.884
● LMS133ATP	Amber	1.330"	08N2949	0.884
● LMS133GTP	Green	1.330"	08N2952	0.884
● LMS133BTP	Blue	1.330"	08N2950	0.884
● LMS133YTP	Yellow	1.330"	08N2954	0.884
● LMS133CTP	Clear	1.330"	08N2951	0.884

(84790)

LCS SERIES NEMA 4 MOISTURE SEALED LITEPIPE ASSEMBLIES FOR PCB MOUNTED LEDs



VCC OPTOELECTRONICS

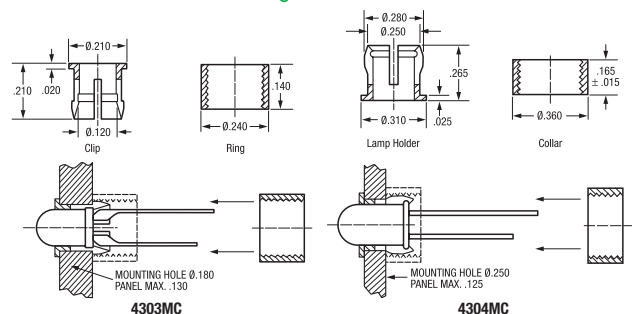


The LCS series of NEMA 4 moisture sealed threaded light pipes provide a method of transmitting light from a surface mount T-1 or T-1 3/4 LED. Low-profile panel Lenses provide 180° viewing angle. Panel hole dia. is 0.312". Can be used with panel thickness of 0.032 to 0.125". The assembly consists of lightpipe, domed lens and mounting hardware. Available in assorted lengths and colors.

Mfg. Part No.	Color	Max Length (in)	Stock No.	Price Each
				Each
● LCS032CTP	Clear	0.32	08N2904	1.330
● LCS032GTP	Green	0.32	08N2905	1.330
● LCS032RTP	Red	0.32	08N2906	1.330
● LCS052CTP	Clear	0.52	08N2907	1.330
● LCS052GTP	Green	0.52	08N2908	1.330
● LCS052RTP	Red	0.52	08N2909	1.330
● LCS052YTP	Yellow	0.52	08N2910	1.330
● LCS072CTP	Clear	0.72	08N2911	1.330
● LCS072GTP	Green	0.72	08N2912	1.330
● LCS072RTP	Red	0.72	08N2913	1.330
● LCS092CTP	Clear	0.92	08N2914	1.330
● LCS092GTP	Green	0.92	08N2915	1.330
● LCS092RTP	Red	0.92	08N2916	1.330
● LCS092YTP	Yellow	0.92	08N2917	1.330
● LCS112CTP	Clear	1.12	08N2918	1.330
● LCS112GTP	Green	1.12	08N2919	1.330
● LCS112RTP	Red	1.12	08N2920	1.330
● LCS112YTP	Yellow	1.12	08N2921	1.330
● LCS132CTP	Clear	1.32	08N2922	1.330
● LCS132GTP	Green	1.32	08N2923	1.330
● LCS132RTP	Red	1.32	08N2924	1.330
● LCS132YTP	Yellow	1.32	08N2925	1.330

(90082)

MOUNTING ACCESSORIES FOR LEDs

CML INNOVATIVE TECHNOLOGIES
Where Innovation Comes to Light

MOUNTING CLIPS FOR T-1 (3mm) AND T-1 3/4 (5mm) LEDs

4303MC series mounting clip installs quickly and provides secure mounting for T-1 high dome LEDs such as the 4303F series. Material: black polypropylene. Mounting hole: 0.180" minimum in panels up to 0.130" thick.

▶ CONTINUED ▶

MOUNTING ACCESSORIES

MOUNTING ACCESSORIES FOR LEDS (CONT.)

Mfg. Part No.	Description	Stock No.	Price Each
● 4303MC	Mounting clips for T-1 high dome LEDs	93B9614	0.319
4304MC series mounting clip installs quickly and provides secure mounting for T-1-3/4 high dome LEDs such as 4301H, 4304H, 4305H or 4306H series. Material: black polypropylene. Mounting hole: 0.250" minimum in panels up to 0.125" thick.			
● 4304MC	Mounting clips for T-1 3/4 high dome LEDs	66F5952	0.319

(3873)

LED SPACERS

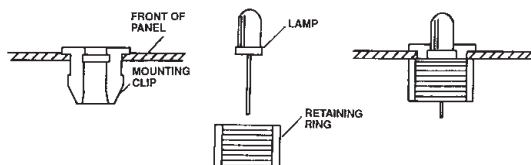


For T-1 1/4 and T-1 LEDs with leads spaced at 0.100" (2.54mm).

Mfg. Part No.	Size	Stock No.	Price Each		
			1-9	10-99	100-249
● 00624200	0.200" (5.08)	44F5290	0.259	0.229	0.171
● 00624250	0.250" (6.35)	44F5289	0.259	0.229	0.171
● 624375	0.375" (9.53)	44F5288	0.218	0.193	0.144
● 624500	0.500" (12.70)	44F5287	0.218	0.193	0.144
● 00624625	0.625" (15.88)	44F5286	0.296	0.261	0.196
● 624750	0.750" (19.05)	44F5285	0.218	0.193	0.144

(3874)

DISCRETE LED SNAP-IN MOUNTING HARDWARE



Mounting hardware for rear mounting of 521 series LEDs. Check chart below for correct product. Note recommended mounting hole and panel thickness below.

Mfg. Part No.	Recommended Mtg. Hole	Max. Panel Thickness	Stock No.	Price Each
● 515-0004F	0.265" (6.73)	7/64" (2.78)	68K1692	1.610
● 515-0005F	0.265" (6.73)	7/64" (2.78)	81K9549	1.610
● 515-0006F	0.165" (4.19)	0.100" (2.54)	30K0378	1.610

Clips are used with the following LEDs

515-0004		515-0005		515-0006	
521-9183	521-9450	521-9173	521-9210	521-9430	
521-9246	521-9460	521-9174	521-9211	521-9431	
521-9247	521-9464	521-9445	521-9215	521-9432	
521-9248	521-9465	521-9651	521-9216	521-9459	
521-9249	521-9466	521-9724	521-9322	521-9478	
521-9250	521-9704	...	521-9323	521-9498	
521-9251	...	...	521-9324	521-9628	
521-9284	...	...	521-9325	521-9636	
521-9320	...	...	521-9326	521-9428	
521-9321	...	...	521-9408	521-9768	
521-9327	...	...	521-9427	521-9831	

(2555)

ROUND LOW PROFILE LED LENS CAPS



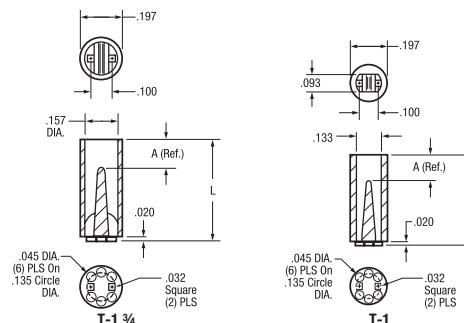
- Material: Polycarbonate

The lens cap protects the LED from physical damage while guarding the components from electrostatic discharge (ESD), up to 16KV. The caps feature striated lines and fresnel rings which permit up to 180° viewing angles with either diffused or non-diffused LED's. They provide exceptionally high contrast and visibility. 8659 is T1 LED size clear color, 8668 is T1-3/4 LED size red color, 8671 is T1-3/4 LED size clear color. Other colors available, go online or call. Sold in packages of 100.

Mfg. Part No.	A Lens Profile	D Diameter	L Length	W Width	Stock No.	Price Each
● 8659	.060	.190	.290	.171	97H7338	102.250
● 8668	.070	.280	.430	.500	97H7339	107.090
● 8671	.070	.280	.430	.500	97H7341	107.090

(78696)

LED SPACER MOUNTS FOR T1 AND T1-3/4 LED'S



- Material: Natural Nylon
- 0.1" Centers

- Self-Aligning
- Sold in packages of 100

New self-aligning Bi-Lead LED mounting spacers, for T-1 and T-1 3/4 LEDs, reduce labor costs by simplifying preassembly to the printed circuit board. Internal design eliminates crimping or shorting of leads.

8000 SERIES T1-3/4

Mfg. Part No.	Reference "A"	Inner Diameter	Stock No.	Price Each
● 8311	0.045"	0.157"	50F6734	24.980
● 8312	0.065"	0.157"	50F6735	24.980
● 8313	0.085"	0.157"	50F6736	24.980
● 8314	0.105"	0.157"	50F6737	24.980
● 8315	0.125"	0.157"	50F6738	24.980
● 8316	0.145"	0.157"	50F6739	24.980
● 8317	0.045"	0.157"	97H7337	24.980
● 8318	0.065"	0.157"	50F6741	24.980
● 8319	0.085"	0.157"	50F6742	24.980
● 8320	0.105"	0.157"	50F6743	24.980
● 8321	0.125"	0.157"	50F6744	25.930
● 8322	0.145"	0.157"	50F6745	25.930
● 8325	0.165"	0.157"	50F6748	25.930

7000 SERIES T1

Mfg. Part No.	Reference "A"	Inner Diameter	Stock No.	Price Each
● 7351	0.045"	0.133"	50F6765	24.250
● 7353	0.065"	0.133"	50F6767	24.250
● 7354	0.085"	0.133"	50F6768	24.250
● 7356	0.105"	0.133"	50F6770	24.250
● 7358	0.125"	0.133"	50F6772	20.420
● 7359	0.145"	0.133"	50F6773	24.250
● 7360	0.165"	0.133"	50F6774	24.250
● 7361	0.185"	0.133"	50F6775	25.150
● 7362	0.205"	0.133"	50F6776	25.150

(78691)

PANEL MOUNT BEZELS AND HOLDERS



ONE PIECE LED PUSH MOUNT PANEL HOLDER

Mfg. Part No.	For Use With	Material	Panel Hole	Panel Length	Stock No.	Price Each
● SSH-LX3050	T-1	Black polypropylene	0.175"	0.189"	09J9214	0.077
● SSH-LX5091	T-1 1/4	Black polypropylene	0.250"	0.173"	09J9216	0.061
● SSH-LXH301	T-1	Black nylon	0.225"	0.220"	09J9212	0.087
● SSH-LXH501	T-1 1/4	Black nylon	0.330"	0.307"	09J9213	0.111

TWO PIECE LED PUSH MOUNT PANEL HOLDER

Mfg. Part No.	For Use With	Material	Panel Hole	Panel Length	Stock No.	Price Each
● SSH-LX5090	T-1 1/4	Black polypropylene	0.250"	0.266"	09J9215	0.067

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LED PANEL MOUNTS



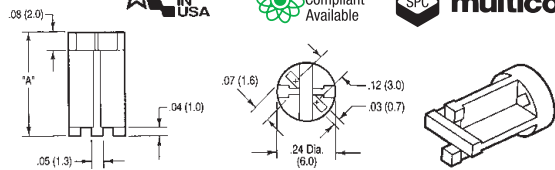
Securely mount an LED to a panel with a thickness (D) of 0.32-0.125" (0.8-3.2). Snap-together ring and clip holds a T-1 1/4 (5mm) LED. Material: nylon %. Color: black. Sold in packages of 100.

Mfg. Part No.	Fits	Dimensions			Stock No.	Price Each
		A	B	C		
● 2599	T-1	0.21" (5.3)	0.21" (5.3)	0.174-0.180" (4.4-4.6)	92N4814	24.920
● 2600	T-1 1/4	0.30" (7.6)	0.26" (6.6)	0.267-0.273" (6.8-6.9)	92N4815	24.920

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MOUNTING ACCESSORIES

LED SPACERS

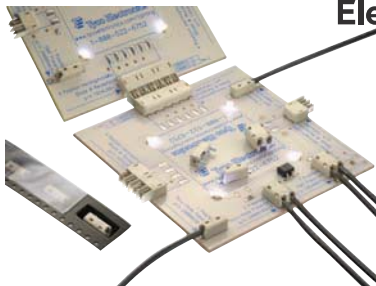
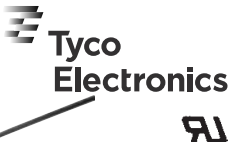


Spacers are natural color nylon 6%, RMS-01. Sold in packages of 100.

Mfg. Part No.	Fits	Size - "A"	Stock No.	Price Each	
				1-4	5-9
● 8476-0438	T-1 1/4	0.187 (4.8)	16N820	22.200	18.890
● 8476-0439	T-1 1/4	0.250 (6.4)	16N821	23.180	19.720
● 8476-0440	T-1 1/4	0.375 (9.5)	16N822	24.150	20.560
● 8476-0441	T-1 1/4	0.500 (12.7)	16N823	25.130	21.390
● 8476-0442	T-1 1/4	0.625 (15.9)	16N824	25.550	21.740
● 8476-0443	T-1 1/4	0.750 (19.1)	16N825	25.900	22.040
● 8476-0444	T-1 1/4	0.875 (22.2)	16N826	26.320	22.400
● 8476-0445	T-1 1/4	1.000 (25.4)	16N827	26.600	22.640

(2645)

SMT POKE-IN LIGHTING CONNECTOR



Features:

- Low profile design
- Connectors are available in 1 and 2 positions
- Standard and Low Insertion Force connectors available
- Connectors are available in both black and white colors for polarity
- Rounded corners to minimize shadowing
- Flat top surface allows for vacuum pickup
- High temperature material for reflow processing
- Tin over nickel plated copper alloy contacts.
- Redundant SMT pads prevent peeling
- Side by side stackable with pads on 4mm centers
- Tape and reel packaging for high speed SMT and Thru Hole processing
- 5 lb minimum wire retention
- Rating 5 A, 250 VAC/VDC
- Temperature rating: -40°C to 105°C

Applications:

- LED Lighting Controls
- LED channel letter lighting strips
- General Illumination LED fixtures
- Backlight engines
- Outdoor LED street and walkway lighting
- Architectural cove and valance lighting
- Digital signage
- Interconnecting strings of printed circuit LED light modules
- Various non-lighting applications that require attaching flying leads to printed circuit boards

Poke-In lighting connectors are low profile and specifically designed for LED lighting applications. The connectors accept 18, 20 and 22 AWG solid wire; 18 and 20 AWG pre-bond stranded wire; and 18 AWG stranded wire. Poke-In lighting connectors are a cost effective alternative to hand soldering wires. Simply strip and poke. Gel-filled versions are available for indoor moisture and outdoor applications.

Mfg. Part No.	Positions	Termination	Color	Stock No.	Price Each
					1-99
● 2008563-1	1	SMT	Natural	08P3266	0.553
● 2008563-2	1	SMT	Black	08P3267	0.553
● 1954097-1	2	SMT	Natural	70M9949	0.560
● 2008839-1	1	Thru-Hole	Natural	08P3272	0.581
● 2008106-1	2	Thru-Hole	Natural	08P3265	0.867

LOW INSERTION FORCE

● 2008683-1	1	SMT	Natural	08P3268	0.553
● 1-2008683-2	1	SMT	Black	08P3261	0.730
● 2008683-2	2	SMT	Natural	08P3269	0.730
● 1-2008683-1	2	SMT	Black	08P3260	0.553
● 2008683-3	1	Thru-Hole	Natural	08P3270	0.863
● 1-2008683-3	1	Thru-Hole	Black	08P3262	0.863
● 2008683-4	2	Thru-Hole	Natural	08P3271	0.867
● 1-2008683-4	2	Thru-Hole	Black	08P3263	0.867

STANDARD GEL FILLED

● 1954785-1	2	SMT	Natural	08P3264	0.730
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GLO SERIES LENSES

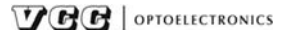


VCC's GLO Series lenses are made from a unique thermoplastic material that diffuses a LED's light output and dramatically reduces "hot spots". The result is a clean, hi-tech glow that evenly distributes the light along the lens surface and can be viewed from nearly any angle.

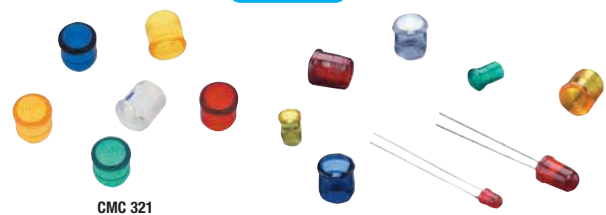
Mfg. Part No.	Use With LED Type	Stock No.	Price Each
			1-9
● CLF 280 GLO	5 mm LED	08R4576	0.438
● CLB 300 GLO	5 mm LED	08R4575	0.438
● SMB 200 GLO	3 mm LED	08R4577	0.401
● SML 190 GLO	3 mm LED	08R4578	0.401

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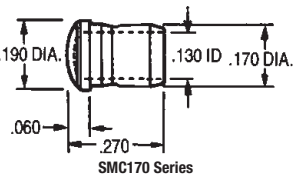
CLIPLITE® PANEL LENSES FOR PCB MOUNTED LEDs



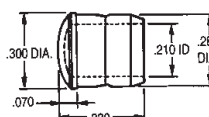
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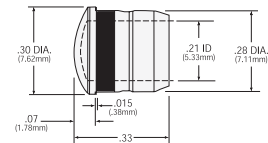
CMC 321



SMC170 Series



CMC321 Series



CMC322 Series (Moisture Seal)

T1 and T1-1/4 size low-profile panel lenses provide 180° viewing angle. **SMC170 series** for T1 LEDs. Hole size: 0.171" on 0.250" centers, panel thickness 0.031"-0.090". **CMC321** and **CMC322 series** for T1-1/4 LEDs. **CMC322 series** also provides a moisture seal. Hole size: 0.283" on 0.375" centers, panel thickness 0.031"-0.125". Use retaining ring **mfg. part no. RNG165** (internal dia.: 0.165" [0.240" external] and length: 0.150") for **SMC170 series**, ordered separately; go online or call. Use retaining ring **mfg. part no. RNG268** (internal dia.: 0.270" [0.36" external] and length: 0.170") for **CMC321** or **CMC322 series**, ordered separately; go online or call.

Mfg. Part No.	Color	Stock No.	Price Each
			1-9
● SMC170RTP	Red	57P6992	0.270
● SMC170ATP	Amber	57P6989	0.270
● SMC170GTP	Green	57P6991	0.270
● SMC170BTP	Blue	57P6990	0.270
● SMC170YTP	Yellow	57P6993	0.270
● SMC170CTP	Clear	35K3939	0.270
● CMC321RTP	Red	57P6515	0.295
● CMC321ATP	Amber	57P6512	0.295
● CMC321GTP	Green	57P6514	0.295
● CMC321BTP	Blue	57P6513	0.295
● CMC321YTP	Yellow	57P6516	0.295
● CMC321CTP	Clear	97B3658	0.295
● CMS322RTP	Red	90B1543	0.884
● CMS322ATP	Amber	57P6524	0.884
● CMS322GTP	Green	57P7639	0.884
● CMS322BTP	Blue	57P6525	0.884
● CMS322YTP	Yellow	57P6527	0.884
● CMS322CTP	Clear	57P6526	0.884
● CML325CTP	Clear	19C8775	0.295

(2566)

MOUNTING ACCESSORIES

P-C-LITE® PCB
MOUNTING CLIPS
FOR LEDs

Just Added

Features:

- Universal, used for mounting all standard 5mm LEDs.
- Low cost installation method for panel mounting LEDs.
- Styles include inner/outer reflector, standard and extended clip types.
- Accommodate panel thickness ranging from .032" to .250".



LED MOUNTING CLIP

Mfg. Part No.	Type	Stock No.	Price Each
● CLP125BLK	LED Mounting Clip, Standard Clip for 5MM LEDs	88H4146	0.089
● CLP126BLK	LED Mounting Clip, Extended clip for 5MM LEDs	57P6503	0.089
● CLP127BLK	LED Mounting Clip, Outer Reflecting clip for 5MM LEDs	88H4149	0.089
● CLP129BLK	LED Mounting Clip, Inner Reflecting clip for 5MM LEDs	57P6504	0.089

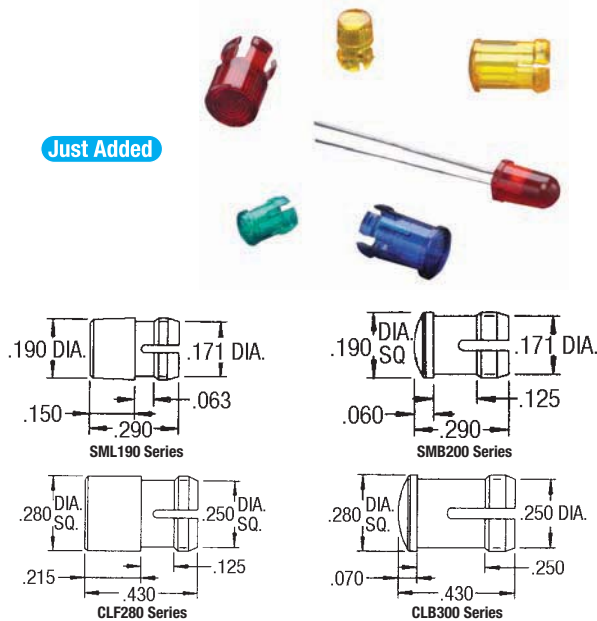
RETAINING RING

Mfg. Part No.	Type	Stock No.	Price Each
● RNG 268	Black Mounting Ring	23K2393	0.080

CLIPLITE® LENS MOUNTS
FOR T1 AND T1-¾ LEDs

VCC OPTOELECTRONICS

Just Added



Standard and low profile lenses, provide 180° viewing angle. Colors: red, green, blue, amber, yellow and clear. Hole size T1, 0.171", on 0.250" centers. Panel thickness T1: SML190 series, 0.031-0.062"; SMB200 series, 0.062-0.125". Hole size T1-¾, 0.250" on 0.375" centers. Panel thickness, CLF280 series, 0.062-0.125". CLB300 series, 0.031-0.250". Mfg. part no. SPC125 spacers are used with CLB300 series, on panels less than 0.188", and are ordered separately along with lenses and mounts; go online or call.

Mfg. Part No.	Color	Stock No.	Price Each
● SML190RTP	Red	57P6998	0.270
● SML190ATP	Amber	57P6994	0.270
● SML190GTP	Green	57P6997	0.270
● SML190BTP	Blue	57P6995	0.270
● SML190YTP	Yellow	57P6999	0.270
● SML190CTP	Clear	57P6996	0.270
● SMB200RTP	Red	57P6986	0.270
● SMB200ATP	Amber	57P6982	0.270
● SMB200GTP	Green	57P6985	0.270
● SMB200BTP	Blue	57P6983	0.270
● SMB200YTP	Yellow	57P6987	0.270
● SMB200CTP	Clear	57P6984	0.299
● CLF280RTP	Red	57P6501	0.295
● CLF280ATP	Amber	57P6498	0.295

➔ CONTINUED ➔

CLIPLITE® LENS MOUNTS FOR T1 AND T1-¾ LEDs (CONT.)

Mfg. Part No.	Color	Stock No.	Price Each
● CLF280GTP	Green	57P6500	0.295
● CLF280BTP	Blue	65H6650	0.295
● CLF280YTP	Yellow	57P6502	0.295
● CLF280CTP	Clear	57P6499	0.295
● CLB300RTP	Red	57P6496	0.295
● CLB300ATP	Amber	57P6493	0.295
● CLB300GTP	Green	57P6495	0.295
● CLB300BTP	Blue	08P0923	0.295
● CLB300YTP	Yellow	57P6497	0.295
● CLB300CTP	Clear	57P6494	0.295

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CLIPMOUNT®
PANEL MOUNTS
FOR LEDs

Just Added

VCC OPTOELECTRONICS



T1 and T1-¾ size low-profile panel mounts provide 90° viewing angle. Also can be used with Conxrite LED cable interconnects.

Mfg. part no. SMC130 for T1 LED. Hole size: 0.171" on 0.250" centers, panel thickness: 0.031"-0.090". Mfg. part no. CMC285 for T1-¾ LEDs. Hole size: 0.283" on 0.375" centers, panel thickness: 0.031"-0.125". Order retaining ring mfg. part no. RNG132 for mfg. part no. SMC130 separately below. Order retaining ring mfg. part no. RNG268 for mfg. part no. CMC285, ordered separately below; go online or call.

Mfg. Part No.	Color	Use With LED Type	Stock No.	Price Each
● SMC130CTP	Clear	All Standard 3mm LEDs	57P6988	0.208
● SMC130BLK	Black	All Standard 3mm LEDs	83H9357	0.160
● CMC285CTP	Clear	5mm LEDs	57P6510	0.265
● CMC285BLK	Black	5mm IR and visible LEDs	19M0056	0.213

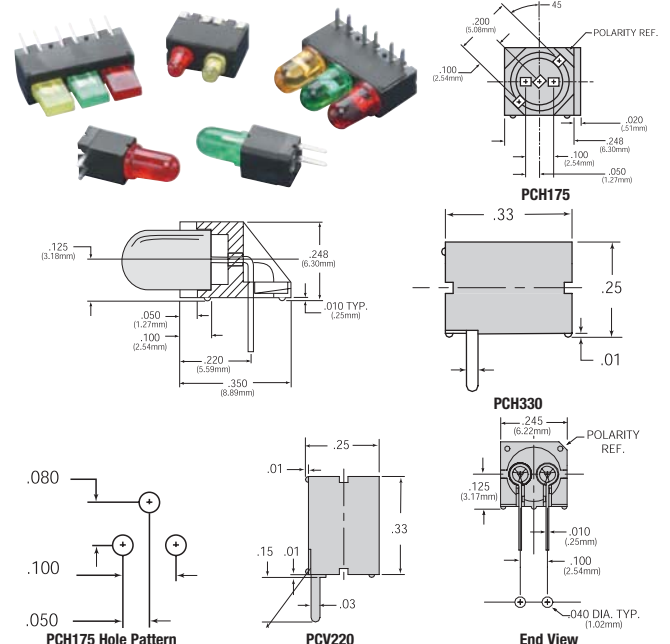
RETAINING RINGS

Mfg. Part No.	Use With	Stock No.	Price Each
● RNG132	3mm - SMC Panel Mount	35C0590	0.083
● RNG165	5mm	57P6979	0.083

(69029)

P-C-LITE® PCB
MOUNTS FOR LED
CIRCUIT BOARDS

VCC OPTOELECTRONICS



PCH 330, PCV 220 and SMD 330 are relampable sockets for circuit board mounting of LEDs. They are soldered directly to the PCB which permits easy insertion or removal of the LED. PCH 175 is a right angle PCB mount for bi and tri-lead LEDs. PCH 175 Dove-tail feature allows mounting of multiple LEDs as a single unit.

➔ CONTINUED ➔

MOUNTING ACCESSORIES

P-C-LITE® PCB MOUNTS FOR LED CIRCUIT BOARDS (CONT.)

Mfg. Part No.	Type	Stock No.	Price Each
● PCH175	Right Angle Bi or Tri-Lead	08N2955	0.105
● PCH330	Horizontal Bi-lead Thru-hole	08N2956	0.565
● PCV220	Vertical Bi-lead Thru-hole	08N2957	0.565

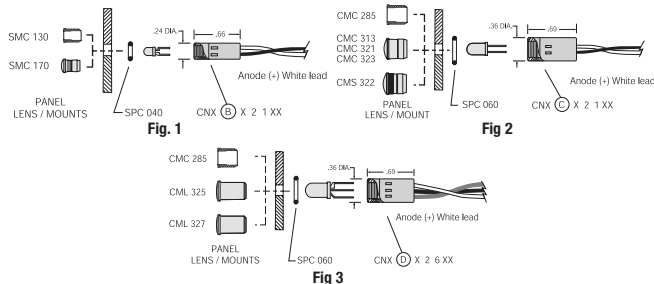
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CONXRITE® LED CABLE ASSEMBLIES WITH PUSH-ON LENSES AND SOCKETS



VCC OPTOELECTRONICS

Just Added



Designed to replace labor-intensive hard-wiring of panel-mounted LEDs to PCB, 3mm **CNXXBE** and **CNXXBX** series connector assemblies use **SMC170** lens or **SMC130** mount; 5mm **CNXXCE** and **CNXXCX** series assemblies use a **CMC321** lens or **CMC285** mount. Order lenses and mounts separately; go online or call. Thin panels (0.032") use spacer mfg. part no. **SPC040** for 3mm or mfg. part no. **SPC060** for 5mm assemblies. Order both ring spacers separately below. **CNXXBE**, **CNXXCE** and **CNXXDF** series cables are supplied with panel and header connector. The **BX**, **CX** and **DX** cables are supplied with panel connector and bare wire leads. **CNXXV** and **H** series locking headers provide positive locking between PCB and cable assembly.

PANEL (LED) CONNECTOR: T1 (3mm) BI-LEAD

Mfg. Part No.	Fig.	Connection Style	L (in.)	Stock No.	Price Each
● CNXXBE2104	1	2 Pos. Connector	4	35C0405	2.190 1.960
● CNXXBE2112	1	2 Pos. Connector	12	35C0407	2.220 1.990
● CNXXBE4104	1	2 Pos. Connector	4	08N2895	2.360 1.980
● CNXXBE4108	1	2 Pos. Connector	8	08N2896	2.360 1.980
● CNXXBE4112	1	2 Pos. Connector	12	08N2897	2.530 2.130
● CNXXBE4118	1	2 Pos. Connector	18	08N2898	2.710 2.280
● CNXXBX2112	1	Stripped Leads	12	35C0412	1.520 1.360
● CNXXBX4104	1	Stripped Leads	4	58K8639	1.590 1.340
● CNXXBX4108	1	Stripped Leads	8	08N2899	1.590 1.340

PANEL (LED) CONNECTOR: T1-3/4 (5mm) BI-LEAD

● CNXXCE4108	2	2 Pos. Connector	8	57P6545	2.160 1.940
● CNXXCE4118	2	2 Pos. Connector	18	08N2900	2.710 2.280
● CNXXCE4124	2	2 Pos. Connector	24	32M0523	2.890 2.420
● CNXXCX2104	2	Stripped Leads	4	88K1056	2.110 1.890
● CNXXCX2108	2	Stripped Leads	8	35C0420	1.380 1.240
● CNXXCX2112	2	Stripped Leads	12	88K1881	2.680 2.400
● CNXXCX2118	2	Stripped Leads	18	88K1057	1.790 1.600
● CNXXCX4104	2	Stripped Leads	4	26K2542	1.590 1.340
● CNXXCX4118	2	Stripped Leads	12	08N2901	1.940 1.630

PANEL (LED) CONNECTOR: T1-3/4 (5mm) TRI-LEAD

● CNXXDF2618	3	3 Pos. Connector	18	98B7942	3.460 3.100
● CNXXDF4604	3	3 Pos. Connector	4	08N2902	3.360 2.820
● CNXXDX2604	3	Stripped Leads	4	35C0433	1.890 1.700
● CNXXDX2618	3	Stripped Leads	18	35C0439	2.430 2.180

OPTIONAL SPACERS

● SPC040	Spacer for 3mm LED Assy	57P7006	0.090 0.080
● SPC060	Spacer for 5mm LED Assy	57P7007	0.090 0.080

(94575)

CONXRITE® LED STANDARD CABLE INTERCONNECTS WITH LEDs



VCC OPTOELECTRONICS

Features:

- Panel Thickness: .030"-.025"
- Wire Size = 24 AWG
- Use RING 242 retaining ring when additional security is required

Wire Length = 8"

Mfg. Part No.	Description	Stock No.	Price Each
● CNX K X 4 2 08 01	5mm Cable with Red Flangeless LED	03P2976	1.780
● CNX K X 4 2 08 02	5mm Cable with Yellow Flangeless LED	03P2977	1.780
● CNX K X 4 2 08 03	5mm Cable with Green Flangeless LED	03P2978	1.780
● CNX K X 4 2 08 10	5mm Cable with Red/Yellow Bi-lead Flangeless LED	03P2979	2.040

➔ CONTINUED ➔

CONXRITE® LED STANDARD CABLE INTERCONNECTS WITH LEDs (CONT.)

Mfg. Part No.	Description	Stock No.	Price Each
● CNXKX420811	5mm Cable with Red/Green Bi-lead Flangeless LED	03P2980	2.040
● CNXKX420812	5mm Cable with Green/Yellow Bi-lead Flangeless LED	03P2981	2.040

Wire Length = 12"

● CNX K X 4 2 12 01	5mm Cable with Red Flangeless LED	03P2983	1.850
● CNX K X 4 2 12 02	5mm Cable with Yellow Flangeless LED	03P2984	1.850
● CNX K X 4 2 12 03	5mm Cable with Green Flangeless LED	03P2985	1.850
● CNX K X 4 2 12 10	5mm Cable with Red/Yellow Bi-lead Flangeless LED	03P2986	2.090
● CNX K X 4 2 12 11	5mm Cable with Red/Green Bi-lead Flangeless LED	03P2987	2.090
● CNX K X 4 2 12 12	5mm Cable with Green/Yellow Bi-lead Flangeless LED	03P2988	2.090

(133280)

LENSES FOR CONXRITE® LED CABLE INTERCONNECTS



VCC OPTOELECTRONICS

Just Added



5mm THREADED LENSES

Mfg. Part No.	LED Type	Style	Color	Stock No.	Price Each
● CMC441RTP	T1-3/4 (5mm) Bi-lead	Lens and retaining ring included. (Not Moisture Sealed)	Red	57P6522	0.814
● CMC441ATP			Amber	57P6518	0.814
● CMC441GTP			Green	57P6521	0.814
● CMC441BTP			Blue	57P6519	0.814
● CMC441YTP			Yellow	57P6523	0.814
● CMC441CTP			Clear	57P6520	0.814

5mm WATER TIGHT LENSES

● CMS442RTP	T1-3/4 (5mm) Bi-lead	Lens and retaining ring included. (Not Moisture Sealed)	Red	57P6532	1.530
● CMS442ATP			Amber	57P6528	1.530
● CMS442GTP			Green	57P6531	1.530
● CMS442BTP			Blue	57P6529	1.530
● CMS442YTP			Yellow	57P6533	1.530
● CMS442CTP			Clear	57P6530	1.530

10mm THREADED LENSES

● HMC461RTP	T3-3/4 (10mm) Bi-lead	Lens and retaining ring included. (Not Moisture Sealed)	Red	83H2381	1.220
● HMC461ATP			Amber	57P6740	1.220
● HMC461GTP			Green	57P6742	1.220
● HMC461BTP			Blue	88H5406	1.220
● HMC461YTP			Yellow	57P6743	1.220
● HMC461CTP			Clear	57P6741	1.220

10mm WATER TIGHT LENSES

● HMS462RTP	T3-3/4 (10mm) Bi-lead	Lens and retaining ring included. (Not Moisture Sealed)	Red	57P6747	1.940
● HMS462ATP			Amber	57P6744	1.940
● HMS462GTP			Green	57P6746	1.940
● HMS462BTP			Blue	57P6745	1.940
● HMS462YTP			Yellow	57P6748	1.940
● HMS462CTP			Clear	81H0021	1.940

(133593)

P-C-LITE PCB MOUNTS WITH LEDs



VCC OPTOELECTRONICS

PCH 175 is a right angle PCB mount for bi and tri-lead LEDs. **PCH 175** Dove-tail feature allows mounting of multiple LEDs as a single unit.



Mfg. Part No.	Description	Stock No.	Price Each
● PCH 175 01	5mm LED Right Angle Mount with Red LED	03P2990	0.480
● PCH 175 02	5mm LED Right Angle Mount with Yellow LED	03P2991	0.480
● PCH 175 03	5mm LED Right Angle Mount with Green LED	03P2992	0.480
● PCH 175 10	5mm LED Right Angle Mount with Red/Yellow LED	03P2993	0.771

➔ CONTINUED ➔

MOUNTING ACCESSORIES • PANEL MOUNT INDICATORS

P-C-LITE PCB MOUNTS WITH LEDs (CONT.)

Mfg. Part No.	Description	Stock No.	Price Each
● PCH 175 11	5mm LED Right Angle Mount with Red/Green LED	03P2994	0.771
● PCH 175 12	5mm LED Right Angle Mount with Green/Yellow LED	03P2995	0.771

(133282)

LED SOCKETS FOR
CIRCUIT BOARD
MOUNTING WITH LEDs

VGG OPTOELECTRONICS



They are soldered directly to the PCB which permits easy insertion or removal of the LED.

HORIZONTAL MOUNT PCH SERIES

Mfg. Part No.	Description	Stock No.	Price Each
● PCH 330 01	Horizontal PCB Socket with Red LED	03P2997	0.936
● PCH 330 02	Horizontal PCB Socket with Yellow LED	03P2998	0.936
● PCH 330 03	Horizontal PCB Socket with Green LED	03P2999	0.936
● PCH 330 10	Horizontal PCB Socket with Red/Yellow Bi-lead LED	03P3000	1.180
● PCH 330 11	Horizontal PCB Socket with Red/Green Bi-lead LED	03P3001	1.180
● PCH 330 12	Horizontal PCB Socket with Green/Yellow Bi-lead LED	03P3002	1.180

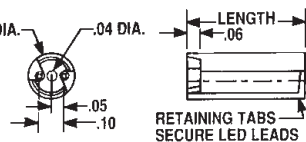
VERTICAL MOUNT PCV SERIES

● PCV 220 01	Vertical PCB Socket with Red LED	03P3004	0.936
● PCV 220 02	Vertical PCB Socket with Yellow LED	03P3005	0.936
● PCV 220 03	Vertical PCB Socket with Green LED	03P3006	0.936
● PCV 220 10	Vertical PCB Socket with Red/Yellow Bi-lead LED	03P3007	1.180
● PCV 220 11	Vertical PCB Socket with Red/Green Bi-lead LED	03P3008	1.180
● PCV 220 12	Vertical PCB Socket with Green/Yellow Bi-lead LED	03P3009	1.180

(133283)

PCB STANDOFFS
WITH LEDs

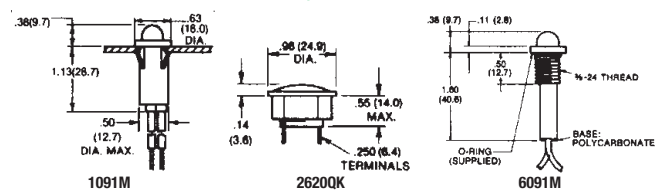
VGG OPTOELECTRONICS



Designed for PCB mounting of multi-lead devices (i.e. LEDs, IR emitter/detector lamps, resistors, capacitors and diodes). Provide lead separation, retention and lateral stability and height control. (Standoffs vary in height from 0.100" to 1.00" in increments of 0.10") Standoffs are UL94V0 material.

Mfg. Part No.	Description	Hex Body Size (Inches)	Stock No.	Price Each
● STD 250 BLK 01	5mm Standoff with Red LED	0.25	03P3011	0.634
● STD 250 BLK 02	5mm Standoff with Red LED	0.25	03P3012	0.634
● STD 250 BLK 03	5mm Standoff with Green LED	0.25	03P3013	0.634
● STD 250 BLK 10	5mm Standoff with Red/Yellow LED	0.25	03P3014	1.040
● STD 250 BLK 11	5mm Standoff with Red/Green LED	0.25	03P3015	1.040
● STD 250 BLK 12	5mm Standoff with Green/Yellow LED	0.25	03P3016	1.040
● STD 500 BLK 01	5mm Standoff with Red LED	0.50	03P3018	0.712
● STD 500 BLK 02	5mm Standoff with Red LED	0.50	03P3019	0.712
● STD 500 BLK 03	5mm Standoff with Green LED	0.50	03P3020	0.712
● STD 500 BLK 10	5mm Standoff with Red/Yellow LED	0.50	03P3021	1.160
● STD 500 BLK 11	5mm Standoff with Red/Green LED	0.50	03P3022	1.160
● STD 500 BLK 12	5mm Standoff with Green/Yellow LED	0.50	03P3023	1.160
● STD 750 BLK 01	5mm Standoff with Red LED	0.75	03P3025	0.712
● STD 750 BLK 02	5mm Standoff with Red LED	0.75	03P3026	0.712
● STD 750 BLK 03	5mm Standoff with Green LED	0.75	03P3027	0.712
● STD 750 BLK 10	5mm Standoff with Red/Yellow LED	0.75	03P3028	1.160
● STD 750 BLK 11	5mm Standoff with Red/Green LED	0.75	03P3029	1.160
● STD 750 BLK 12	5mm Standoff with Green/Yellow LED	0.75	03P3030	1.160

(133284)

SPECIAL NON-RELAMPABLE
INDICATORSCML INNOVATIVE TECHNOLOGIES
WHERE INNOVATION COMES TO LIGHT
formerly Chicago Miniature Lamp and S1 Miniature Lighting

Non-relampable solid state lamps with polycarbonate lens. Solid state indicator lights (1091M and 6091M series) feature built-in current-limiting resistor and rectifier diode. No. 22 AWG wire leads. Stainless-steel bezel. 1091M series snap-fits into 0.500-0.505" diameter hole in panels 0.02-0.10" thick. 6091M series mounts in a 0.38" min. diameter hole. Supplied with internal tooth-lock washer and hex nut.

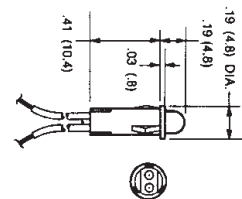
Mfg. Part No.	Color	Voltage	Stock No.	Price Each
● 1091M1-6V	Red	6	16M0432	4.260
● 1091M1-12V	Red	12	93K6623	4.260
● 1091M5-12V	Green	12	16M2705	4.260
● 1091M1-24V	Red	24	93K6624	4.260
● 1091M5-24V	Green	24	93K6626	4.260
● 1091M7-24V	Yellow	24	16M0435	4.260
● 1091M1-125VAC	Red	125	95F9388	4.970
● 1091M5-125VAC	Green	125	93K6625	4.970
● 1091M7-125VAC	Yellow	125	16M0434	4.970
● 2620K01	Red	105-125VAC	18M8029	4.330
● 2620K03	Amber	105-125VAC	18M8030	4.330
● 2620K05	Green	105-125VAC	18M8032	5.760
● 6091M1-24V	Red	24	18M8215	7.520
● 6091M5-24V	Green	24	18M8216	7.520
● 6091M7-24V	Yellow	24	18M8217	7.520

(2549)

5110F SERIES LED PANEL
MOUNT INDICATORSCML INNOVATIVE TECHNOLOGIES
WHERE INNOVATION COMES TO LIGHT
formerly Chicago Miniature Lamp and S1 Miniature Lighting

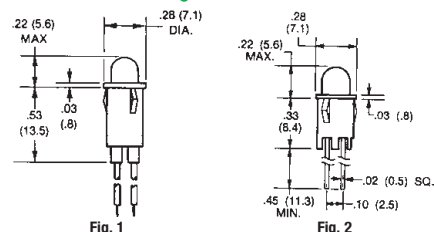
- Low Current: Only 2mA
- Built-In Chip Resistor
- Operates Directly Off 5V Supply
- No External Resistor Needed

Mfg. Part No. 5110F indicator features wire leads and super-brite T-1 LED 20 mcd-diffused lens to allow wide angle viewing. Snap-fits in 0.155-0.158" (3.93-4.01mm) diameter hole in panels 0.031-0.062" (0.78-1.57mm) thick. 6", 26 AWG leads stripped 0.250" (6.35mm). Black nylon housing. Amber color also available; go online or call for more information.



Mfg. Part No.	Color	Luminous Intensity (mcd)	Current (mA)	Forward Voltage Typ. (V)	Stock No.	Price Each
● 5110F1	Red	10	10	2.0	93F7470	1.720
● 5110F5	Green	16	20	2.2	93K6784	1.720
● 5110F7	Yellow	6.3	20	2.1	93F7866	1.720
● 5110F1LC	Red	2.5	2	1.8	16M0863	2.320
● 5110F1-5V	Red	8	10	5	92F3598	2.520
● 5110F5-5V	Green	8	10	5	93K6786	2.520
● 5110F1-12V	Red	8	13	12	16M1416	2.520
● 5110F5-12V	Green	8	13	12	93K6785	2.520

(2559)

5100H SERIES LED PANEL
MOUNT INDICATORSCML INNOVATIVE TECHNOLOGIES
WHERE INNOVATION COMES TO LIGHT
formerly Chicago Miniature Lamp and S1 Miniature Lighting

Indicator type 5100H snap-fits in 0.249/0.254" (6.33/6.45) diameter mounting hole in panels 0.031/0.062" (0.78/1.57) thick. Features 6" (152.4) wire leads 24AWG insulated, bonded strands, stripped 0.250" (6.35). Type 5100H1/5 is bi-color. Lights red or green by reversing polarity. Type 5102H features built-in resistor chip (5V or 12V) to operate directly off 5-volt or 12-volt supply without external resistor. Type 5101H features wire-wrap 0.45" (11.3) terminals. Black nylon housing.

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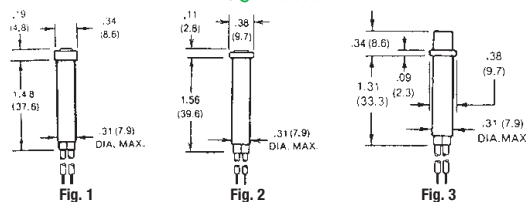
PANEL MOUNT INDICATORS

5100H SERIES LED PANEL MOUNT INDICATORS (CONT.)

Mfg. Part No.	Fig.	Color*	Luminous Intensity (mcd)	Current (mA)	Forward Voltage Typ. (V)	Stock No.	Price Each
● 5100H1	1	Red	30	20	2.0	18M8146	1.110
● 5100H3	1	Amber	20	20	2.0	93F7878	1.210
● 5100H5	1	Green	30	20	2.2	20M4417	1.110
● 5100H7	1	Yellow	25	20	2.1	18M8149	1.110
● 5100H1/5	1	Red/Grn	6	20	2.2	18M8147	1.800
● 5102H1-5V	1	Red	6	10	5	93F3484	1.540
● 5102H3-5V	1	Amber	7	10	5	93F3486	1.540
● 5102H5-5V	1	Green	10	12	5	93F3485	1.540
● 5102H1-12V	1	Red	4	13	12	18M8153	1.540
● 5102H3-12V	1	Amber	4	13	12	93F3489	1.540
● 5102H5-12V	1	Green	4	13	12	18M8154	1.540
● 5101H1	2	Red	6.3	20	2.2	18M8151	1.030
● 5101H5	2	Green	10	20	2.1	18M8152	1.030

* Colors are super-brite (2558)

NON-RELAMPABLE 5/16" LED PANEL MOUNT INDICATORS



Neon and LED solid-state indicators mount in 0.313" (7.95mm) min. diameter hole with push-on speednut (included). All have 4-4.8" (112-122.9mm) long, 22 AWG wire leads **except** Mfg. Part Nos. with Q in the type number which have 0.187" (4.75mm) tinned brass quick-connect terminals. Neon indicators (Mfg. Part Nos. 2110, 2120 and 2150): 105-125VAC. Mfg. Part No. 2150 has polished stainless steel bezel. Wire lead models feature black leads. LED solid state indicators (Mfg. Part No. 2191): 12V and 24V, as indicated by suffix in type number. Polished stainless steel bezel. Wire lead models feature red (+) anode lead.

NEON INDICATORS WITH BUILT-IN RESISTOR

Mfg. Part No.	Fig.	Lens Color	Stock No.	Price Each
● 2110A1	1	Red	18M7959	2.010
● 2110A2	1	Clear	18M7960	2.010
● 2110A3	1	Amber	18M7961	2.010
● 2110A4	1	White	18M7962	2.010
● 2120A1	2	Red	93F3569	2.010
● 2120A3	2	Amber	18M7967	2.010
● 2120A4	2	White	18M7968	2.010
● 2150A1	3	Red	26M8362	2.140
● 2150A2	3	Clear	18M7969	2.140
● 2150A3	3	Amber	26M8363	2.140
● 2152A5	3	Green	18M7973	3.410
● 2150A4	3	White	26M8364	2.140
● 2150QA1	3	Red	18M7970	2.290
● 2150QA3	3	Amber	18M7971	2.290
● 2150QA4	3	White	18M7972	2.290
● 2152QA5	3	Green	18M7974	3.570

LED SOLID-STATE INDICATORS

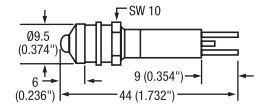
● 2191L1-12V	3	Red	18M7975	2.870
● 2191L1-24V	3	Red	18M7976	2.870
● 2191L5-12V	3	Green	18M7977	2.870
● 2191L5-24V	3	Green	18M7978	2.870
● 2191L7-12V	3	Yellow	18M7979	2.870
● 2191L7-24V	3	Yellow	18M7980	2.870
● 2191QL1-12V	3	Red	93K6762	4.420
● 2191QL1-24V	3	Red	93K6763	4.420
● 2191QL5-12V	3	Green	93K6764	4.420
● 2191QL5-24V	3	Green	16M0460	3.140
● 2191QL7-12V	3	Yellow	93K6765	4.420
● 2191QL7-24V	3	Yellow	18M7981	2.990
● 2191U5-24V	3*	Green	88M9621	4.220
● 2191U1-12V	3*	Red	93B8864	4.220

* Dome Style (2563)

M8 LED INDICATORS



M8 LED indicators mount in 0.315-0.323" (8-8.2mm) diameter hole in panels and maximum thickness of 0.217" (5.5mm). High brightness LEDs with color diffused lenses and chrome bezels. Solder tab terminal. 0.110 x 0.031" (2.8 x 0.8mm). Brass terminal: anode. Brass-tinned terminal: cathode. IP40 rating. Black bezel is also available; go online or call.



Mfg. Part No.	Color	Voltage	Current (mA)	Stock No.	Price Each
● 19040251	Green	12VDC	20	95C0330	6.180
● 19040252	Yellow	12VDC	20	93K6702	6.180
● 19040253	Red	12VDC	20	93K6703	6.180
● 19040257	Blue	12VDC	20	93K6704	10.100
● 19040351	Green	24VDC	20	93K6705	6.180
● 19040352	Yellow	24VDC	20	93K6706	6.180
● 19040353	Red	24VDC	20	95C0336	6.180
● 19040357	Blue	24VDC	20	93K6707	10.100
● 19510330	Red	130VAC	5	95C0390	12.000
● 19510331	Green	130VAC	5	95C0391	11.780
● 19510332	Yellow	130VAC	5	93K6743	11.780
● 19510430	Red	230VAC	5	93K6744	12.000
● 19510431	Green	230VAC	5	93K6745	11.780
● 19510432	Yellow	230VAC	5	93K6746	11.780

SUNLIGHT VISIBLE M8 LED INDICATORS



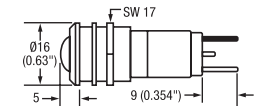
Sunlight visible M8 LED indicators mount in 0.315-0.323" (8-8.2mm) diameter hole in panels and maximum thickness of 0.217" (5.5mm). Super bright LEDs with color diffused lenses and chrome bezels. Solder tab terminal: 0.110 x 0.031" (2.8 x 0.8mm). Brass terminal: anode. Brass-tinned terminal: cathode. IP67 rating. Black bezel is also available; go online or call.

Mfg. Part No.	Color	Voltage	Current (mA)	Stock No.	Price Each
● 19080250	Red	12VAC/DC	17	93K6709	8.490
● 19080252	Yellow	12VAC/DC	17	93K6710	11.750
● 19080255	Green	12VAC/DC	17	95C0341	20.070
● 19080257	Blue	12VAC/DC	17	93K6711	20.070
● 1908025W	White	12VAC/DC	17	93K6708	20.070
● 19080350	Red	24VAC/DC	17	93K6713	8.490
● 19080352	Yellow	24VAC/DC	17	93K6714	11.750
● 19080355	Green	24VAC/DC	17	93K6715	20.070
● 19080357	Blue	24VAC/DC	17	93K6716	20.070
● 1908035W	White	24VAC/DC	17	93K6712	20.070

M14 LED INDICATORS



M14 LED indicators mount in 0.55-0.56" (14-14.2mm) diameter hole in panels and maximum thickness of 0.433" (11mm). High brightness LEDs with color diffused lenses and chrome bezels. Solder tab terminal. 0.110 x 0.031" (2.8 x 0.8mm). Brass terminal: anode. Brass-tinned terminal: cathode. IP40 rating. Black bezel is also available; go online or call.



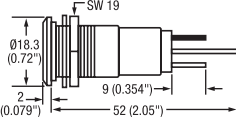
Mfg. Part No.	Color	Voltage	Current (mA)	Stock No.	Price Each
● 19210250	Red	12VDC	20	93K6725	8.300
● 19210251	Green	12VDC	20	93K6726	8.300
● 19210252	Yellow	12VDC	20	95C0361	8.300
● 19210350	Red	24VDC	20	93K6727	8.300
● 19210352	Yellow	24VDC	20	93K6728	8.300
● 19350130	Red	130VAC	6	16M0452	12.630
● 19350131	Green	130VAC	6	93K6729	14.400
● 19350133	Yellow	130VAC	6	16M0453	14.400
● 19350230	Red	230VAC	3	93K6730	12.630
● 19350231	Green	230VAC	3	93K6731	14.400
● 19350233	Yellow	230VAC	3	16M0454	14.400

PANEL MOUNT INDICATORS

M16 LED INDICATORS



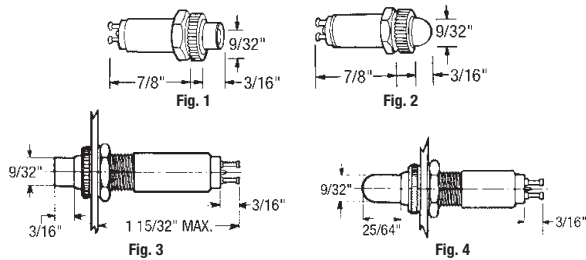
M16 LED indicators mount in 0.63-0.645" (16-16.4mm) diameter hole in panels and maximum thickness of 0.433" (11mm). High brightness LEDs with color diffused lens and chrome bezel. Black bezel is also available; *go online or call*. Solder tab terminal. 0.110" x 0.031" (2.8 x 0.8mm). Brass terminal = Anode; Brass tinned terminal = Cathode. IP67 rating.



Mfg. Part No.	Color	Voltage	Current (mA)	Stock No.	Price Each
19380250M	Red	12VAC/DC	16	93K6733	21.350
19380255M	Green	12VAC/DC	14	95C0373	28.180
19380350M	Red	24VAC/DC	16	93K6736	21.350
19380352M	Yellow	24VAC/DC	16	93K6737	21.350
19380355M	Green	24VAC/DC	14	93K6738	28.180
19380357M	Blue	24VAC/DC	14	95C0379	28.180
1938035WM	White	24VAC/DC	14	93K6735	28.180
19410130M	Red	130VAC	6	93K6740	24.220
19410132M	Yellow	130VAC	6	16M0456	24.220
19410135M	Green	130VAC	6	16M0457	29.610
19410137M	Blue	130VAC	6	93K6741	29.610
1941013WM	White	130VAC	6	93K6739	29.610
19410230M	Red	230VAC	3	95C0386	24.220
19410232M	Yellow	230VAC	3	95C0387	24.220
19410235M	Green	230VAC	3	93K6742	29.610
19410237M	Blue	230VAC	3	95C0389	29.610
1941023WM	White	230VAC	3	95C0385	29.610

(72969)

249 SERIES LED AND NEON PANEL MOUNT INDICATORS



249 series indicators offer high efficiency LEDs, standard, or high brightness neon lamps in black anodized aluminum housing. LED products offer integral resistors and long life for low voltage applications. Neon products supplied with integral resistors for line voltage requirements. 249 series units are complete assemblies including base, lamp and lens in one. For 249 series LED with short stovepipe lens (see Fig. 2), change the 8th and 9th digits in the type no. from 33 to 37. To order 3.6V devices, change the 6th and 7th digits to 67.

0.375" (9.53mm) MTG. HOLE, LED PANEL MOUNT, FIG. 1

Mfg. Part No.	Color	V _F (V)	Stock No.	Price Each
249-4164-3334-504F	Blue	5	33M2174	20.980
249-4167-3334-504F	Blue	14	33M2178	15.320
249-4168-3334-504	Blue	28	91F5329	16.370
249-7967-3332-504	Green	3.6	25F1543	9.850
249-7968-3332-504	Green	5	25F1546	9.140
249-7970-3332-504F	Green	10	33M2196	10.530
249-7971-3332-504F	Green	14	33M2198	8.980
249-7972-3332-504	Green	28	25F1535	9.140
249-7867-3331-504F	Red	3.6	33M2182	8.980
249-7868-3331-504	Red	5	25F1435	8.980
249-7870-3331-504	Red	10	25F1454	8.980
249-7871-3331-504F	Red	14	33M2188	8.980
249-7872-3331-504	Red	28	25F1436	8.870
249-8068-3333-504	Yellow	5	25F1547	8.980
249-8071-3333-504	Yellow	14	25F1534	9.430
249-8072-3333-504	Yellow	28	25F1536	8.980

0.375" (9.53mm) MTG. HOLE, LED PANEL MOUNT, FIG. 2

Mfg. Part No.	Color	V _F (V)	Stock No.	Price Each
249-7868-3731-504	Red	5	25F1437	8.980
249-7970-3732-504	Green	10	25F1525	9.480
249-7871-3731-504	Red	14	25F1450	8.980
249-7872-3731-504F	Red	28	33M2191	8.980
249-7968-3732-504F	Green	5	33M2195	9.140
249-7971-3732-504	Green	14	25F1527	8.980
249-7972-3732-504	Green	28	25F1529	9.140
249-8071-3733-504F	Yellow	14	33M2210	10.530
249-8072-3733-504	Yellow	28	25F1530	8.980

➔ CONTINUED ➔

249 SERIES LED AND NEON PANEL MOUNT INDICATORS (CONT.)

0.375" (9.53mm) MTG. HOLE, NEON PANEL MOUNT, FIG. 3

To order 249 series neon with stovepipe lens (see Fig. 4), change the 8th and 9th digits in the mfg. part no. from 14 to 09. 249-7841 models have standard brightness and rate 105-125 VAC/VDC. Others have high brightness and rate 110-125 VAC/VDC.

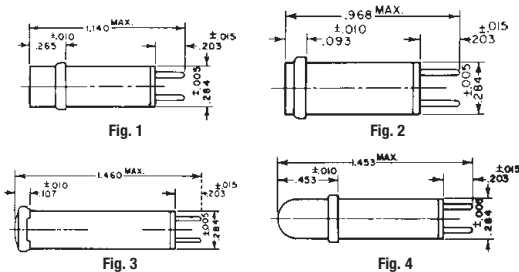
Mfg. Part No.	Color	Stock No.	Price Each
249-7841-1431-574	Red	25F1161	18.630
249-7841-1433-574	Amber	25F1162	17.170
249-7841-1435-574	White	25F1163	42.090
249-7866-1431-514	Red	20F891	18.630
249-7866-1433-514	Amber	20F892	18.630
249-7866-1435-514	White	20F893	24.420
249-7866-1437-514	Clear	20F894	23.070

0.375" (9.53mm) MTG. HOLE, NEON PANEL MOUNT, FIG. 4

Mfg. Part No.	Color	Stock No.	Price Each
249-7841-0931-574	Red	25F1151	21.460
249-7841-0933-574	Amber	25F1152	32.990
249-7866-0931-514	Red	20F887	32.520

(2539)

LED, INCANDESCENT AND NEON DATALAMP INDICATORS



Cartridges have aluminum housing with nickel silver pins, offset for polarization. IC compatible. LED's internal fresnel ring pattern allows maximum light distribution. Housing: black anodized. Incandescent and neon housings have clear anodized finish. High brightness neon units have a 5000-hour minimum life; standard brightness, 25,000 hours. Cartridges accept holders, connectors, and speed clips. Cartridges with stovepipe lenses (Fig. 2) and long cylindrical lenses are available; *go online or call*.

507 SERIES LED CARTRIDGES

Mfg. Part No.	Fig.	Color	VF (V)	Current (mA)	Lum. Intens. (mcd)	Stock No.	Price Each
507-4757-3331-500	1	Red	5	15	10	25F1430	4.830 4.700
507-4857-3332-500	1	Green	5	20	50	25F1463	7.700 7.260
507-4957-3333-500	1	Amber	5	20	35	25F1464	7.700 7.260
507-4759-3331-500	1	Red	10	15	10	25F1432	5.670 5.350
507-4859-3332-500	1	Green	10	20	50	25F1467	7.900 7.450
507-4760-3331-500	1	Red	14	20	10	25F1433	4.830 4.700
507-4860-3332-500	1	Green	14	20	50	25F1469	7.700 7.260
507-4960-3333-500F	1	Yellow	14	20	35	33M4046	7.210 7.020
507-4761-3331-500	1	Red	28	20	10	25F1434	7.540 7.110
507-4861-3332-500	1	Green	28	20	50	25F1471	7.700 7.260
507-4961-3333-500	1	Amber	28	20	35	25F1472	7.700 7.260
507-5064-3334-500	1	Blue	5	10	100	91F5323	13.460 12.680
507-5067-3334-500	1	Blue	14	10	100	91F5325	13.460 12.680

507 SERIES INCANDESCENT CARTRIDGES

Mfg. Part No.	Fig.	Color	VF (V)	Current (mA)	CP	Life (Hrs.)	Stock No.	Price Each
507-3910-1431-600	1	Red	10	14	0.004	50000	45F500	10.750 10.140
507-3911-1431-600	1	Red	10	40	0.080	10000	61M2816	12.000 11.320
507-3911-1432-600	1	Green	10	40	0.080	10000	14M6780	12.000 11.320
507-3911-1433-600	1	Amber	10	40	0.080	10000	25F1174	12.000 11.320
507-3913-1471-600	1	Red	14	80	0.500	15000	25F1134	18.760 17.680
507-3913-1472-600	1	Green	14	80	0.500	15000	25F1135	14.120 13.310
507-3913-1475-600	1	White	14	80	0.500	15000	25F1138	20.010 18.860
507-3914-1471-600	1	Red	14	80	0.300	15000	25F1168	9.360 8.820
507-3914-1472-600	1	Green	14	80	0.300	15000	25F1169	9.360 8.820
507-3914-1473-600	1	Amber	14	80	0.300	15000	25F1170	9.360 8.820
507-3914-1475-600	1	White	14	80	0.300	15000	25F1171	9.850 9.290
507-3917-1471-600	1	Red	28	40	0.340	4000	25F1140	9.360 8.820
507-3917-1472-600	1	Green	28	40	0.340	4000	52M1842	9.360 8.820
507-3917-1473-600	1	Amber	28	40	0.340	4000	25F1142	9.360 8.820
507-3917-1475-600	1	White	28	40	0.340	4000	25F1144	9.850 9.290
507-3918-1471-600	1	Red	28	40	0.300	7000	25F1176	7.970 7.750
507-3918-1472-600	1	Green	28	40	0.300	7000	25F1177	8.700 8.200

➔ CONTINUED ➔

PANEL MOUNT INDICATORS

LED, INCANDESCENT AND NEON DATALAMP INDICATORS (CONT.)

Mfg. Part No.	Fig.	Color	VF (V)	Current (mA)	CP	Life (Hrs.)	Stock No.	Price Each
							1-24	25-49
507-3918-1473-600	1	Amber	28	40	0.300	7000	25F1178	9.360 8.820
507-3918-1475-600	1	White	28	40	0.300	7000	25F1179	9.360 8.820
507-3917-0371-600	2	Red	28	40	0.340	4000	25F1093	17.820 16.800
507-3917-0372-600	2	Green	28	40	0.340	4000	25F1094	18.840 17.760
507-3917-0375-600*	2	White	28	40	0.340	4000	25F1096	10.690 10.080
507-5821-0747-600*	3	Clear	28	40	1.200	5000	61M2818	17.970 16.940
507-5824-0747-600*	3	Clear	120	25	1.500	5000	60F1233	18.550 17.490

507 SERIES NEON CARTRIDGES

Mfg. Part No.	Fig.	Color	AC/DC (V)	Res.	Brightness	Stock No.	Price Each
						1-24	25-49
507-4537-0931-640	4	Red	105-125	100K	Standard	25F1180	8.870 8.640
507-4537-0933-640	4	Amber	105-125	100K	Standard	25F1181	3.870 3.760
507-4537-0935-640	4	White	105-125	100K	Standard	25F1182	17.960 17.480
507-4537-0937-640	4	Clear	105-125	100K	Standard	25F1184	8.870 8.640
507-4537-1433-640F	4	Amber	105-125	100K	Standard	33M3987	14.330 13.510
507-4538-0931-610	4	Red	110-125**	47K	High	25F1190	9.850 9.290
507-4538-0933-610	4	Amber	110-125**	47K	High	25F1191	9.850 9.290
507-4538-0935-610	4	White	110-125**	47K	High	25F1192	11.420 11.110
507-4538-0937-610	4	Clear	110-125**	47K	High	25F1194	13.420 12.650

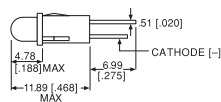
*Uses holder 250-8758-33-504.

**110-125 VAC (2584)

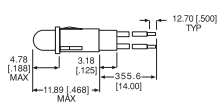
558 SERIES PANEL MOUNT LED INDICATORS



Dialight



Straight Terminals - 001 Suffix



14" Leads - 007 Suffix

558 series snap-in mount LED indicators feature ultra-bright, water-clear LEDs. Require no additional mounting hardware for 0.031-0.062" thick panels. Power requirements range from 2-20mA. Housing is black polycarbonate. Feature 0.156" (3.96mm) mounting hole. Termination: mfg. part nos. with **001** suffix = straight; **003** suffix = 6" leads; and **007** suffix = 14" leads.

Mfg. Part No.	Color	VF (V)	Current (mA)	Luminous Intensity (mcd)	Stock No.	Price Each
					1-24	25-49
558-0101-001F	Red	2	10	10	30K2819	1.270 1.080
558-0101-003F	Red	2	10	10	30K2820	2.440 2.070
558-0101-007F	Red	2	10	10	30K2821	2.440 2.070
558-0102-001F	Red	5	12	29	30K2830	2.110 1.790
558-0102-003F	Red	5	12	29	30K2831	2.950 2.500
558-0102-007F	Red	5	12	29	30K2832	2.950 2.500
558-0201-001F	Green	2.1	10	16	30K2833	1.270 1.080
558-0201-003F	Green	2.1	10	16	30K2834	2.440 2.070
558-0201-007F	Green	2	10	16	30K2835	2.440 2.070
558-0202-001F	Green	5	12	19	30K2836	2.110 1.790
558-0202-003F	Green	5	12	19	30K2851	2.950 2.500
558-0202-007F	Green	5	12	19	30K2852	2.950 2.500
558-0301-001F	Yellow	2.1	10	10	30K2856	1.270 1.080
558-0301-007F	Yellow	2	10	10	30K2858	2.440 2.070
558-0301-003F	Yellow	2.1	10	10	30K2857	2.440 2.070
558-0302-001F	Yellow	5	12	12.6	30K2861	2.110 1.790
558-0302-003F	Yellow	5	12	12.6	30K2862	2.950 2.500
558-0302-007F	Yellow	5	12	12.6	30K2863	2.950 2.500
558-0501-007F	Green	2.1	20	70	30K2869	2.950 2.500
558-0601-007F	Yellow	1.9	20	200	30K2872	3.160 2.680
558-0701-007F	Red	1.8	20	170	30K2875	2.950 2.500
558-1101-007F	Red	1.8	2	1.6	30K2879	2.740 2.320
558-3101-007F	Red/Green	1.8/2.1	20	12.6/3.7	30K2906	3.280 2.780
558-3201-007F	Yellow/Green	2.1/2.1	20	4.3/6.3	30K2909	3.280 2.780
558-6003-007F	Yellow	5	15	8	30K2910	5.050 4.280
558-6403-007F	White	3.6	20	8.5	30K2911	5.050 4.280

(2602)

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(148843)

559 SERIES LED INDICATORS — 0.250" MOUNTING HOLE



Dialight

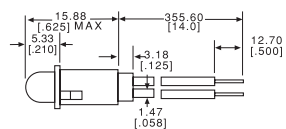


Fig. 1 (14" Wire Leads)

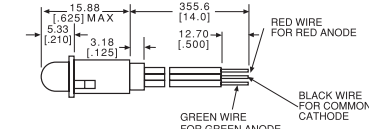


Fig. 2 (3-Leaded Bi-Color)

559 series are snap-in mounted diffused LED indicators available in three-leaded bi-color (fig. 2) and 2, 5 and 12V models. Feature 14" wire leads. 0.250" (6.35mm) mounting hole. 6" (152.4mm) wire lead versions are also available; go online or call.

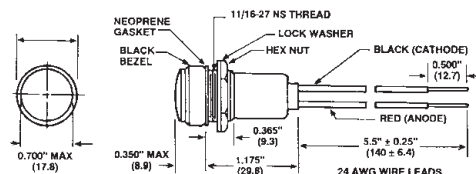
Mfg. Part No.	Fig.	Color	VF (V)	Current (mA)	Luminous Intensity (mcd)	Stock No.	Price Each
						1-24	25-99
559-0102-007F	1	Red	5	10	8	30K2942	2.150 1.790
559-0103-007F	1	Red	12	13	8	30K2948	2.150 1.790
559-0202-007F	1	Green	5	10	8	30K2957	2.150 1.790
559-0302-007F	1	Yellow	5	10	8	30K2968	2.150 1.790
559-0303-007F	1	Yellow	12	13	8	30K2975	2.150 1.790
559-0203-003F	1	Green	12	13	4	30K2964	2.150 1.790
559-0203-007F	1	Green	12	13	8	30K2965	2.150 1.790
559-1201-007F	1	Yellow	1.9	2	1.8	30K2985	1.980 1.650
559-2301-001F	1	Yellow	2.1	10	6.3	30K3019	1.140 0.946
559-5201-001F	*	Green	2.2	20	34	30K3073	1.250 1.050
559-5301-001F	*	Yellow	2.2	20	34	30K3079	1.250 1.050
559-2101-007F	1	Red	2	10	7	30K2997	1.650 1.380
559-2201-007F	1	Green	2	10	10	30K3008	1.650 1.380
559-2301-007F	1	Yellow	2	10	6.3	30K3021	1.650 1.380
559-3001-007F	2	R/G	1.75/2.0	20	90/40	30K3035	2.540 2.120
559-3501-007F	2	R/G	2.1	10	5/8	30K3043	4.120 3.440
559-3601-007F	2	Y/G	1.6/1.6	10	20/20	30K3061	4.120 3.440
559-5101-007F	1	Red	2.1	20	34	30K3066	1.820 1.520
559-5201-007F	1	Green	2.1	20	34	30K3075	1.820 1.520
559-5601-007F	1	Green	2.3	20	120	30K3094	1.910 1.600
559-5701-007F	1	Yellow	2.2	20	140	30K3099	1.910 1.600
559-5901-007F	1	Amber	2.02	20	3100	30K3110	3.130 2.620
559-6001-007F	1	Blue	3.6	20	650	30K3113	10.710 8.930
559-6101-007F	1	Red	1.9	20	2100	30K3116	3.130 2.620

*Straight terminals. (2603)

557 SERIES WATERTIGHT LED PANEL MOUNT INDICATORS



Dialight



557 series indicators for 0.688" (17.48mm) mounting hole feature superbright colors, 100,000-hour life, uniform illumination, watertight, tamperproof design and 6" (152.4mm) wire leads. Suited for instrument panels, electrical/electronic control panels and where highly visible indication is critical. Housing material: polycarbonate with black aluminum bezel. Operating temperature: -25°C to +85°C.

Mfg. Part No.	Color*	VF (V)	Current (mA)	Intensity (foot lamberts)	Stock No.	Price Each
					1-24	25-99
557-1402-203F	Red/Green	5	80	200/100	33M4315	19.760 16.420
557-1103-203F	Red	12	20	100	33M4306	16.500 13.710
557-1002-203	White	5	16	700	26C9322	20.980 17.440
557-1003-203	White	12	16	700	26C9323	20.980 17.440
557-1204-203	Green	28	25	150	93F4203	16.500 13.710
557-1412-203	Red/Green	5	70/16	400/1000	83F5449	22.660 18.840
557-1432-203	Yellow/Green	5	70/16	400/1000	83F5450	25.910 21.530
557-1503-203	Red	12	20	1000	16F2310	18.970 15.770
557-1505-203	Red	24	20	1000	93F4205	18.970 15.770
557-1602-203F	Green	5	16	1000	33M4334	20.980 17.440
557-1603-203	Green	12	16	1000	83F5455	20.980 17.440
557-1605-203	Green	24	16	1000	83F5458	20.980 17.440
557-1702-203	Yellow	5	80	1000	83F5453	18.970 15.770
557-1703-203	Yellow	12	20	1000	83F5456	18.970 15.770
557-1705-203	Yellow	24	20	1000	83F5459	18.970 15.770
557-1802-203F	Blue	5	16	250	33M4353	20.980 17.440

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PANEL MOUNT INDICATORS

557 SERIES WATERTIGHT LED PANEL MOUNT INDICATORS (CONT.)

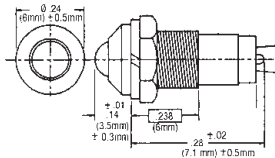
Mfg. Part No.	Color*	V _F (V)	Current (mA)	Intensity (foot lamberts)	Stock No.	Price Each	
						1-24	25-99
557-1803-203	Blue	12	16	250	83F5457	20.980	17.440
557-1805-203	Blue	24	16	250	83F5460	20.980	17.440

*Colors are superbright (2604)

605 SERIES FOR 5mm MOUNTING HOLE



Dialight



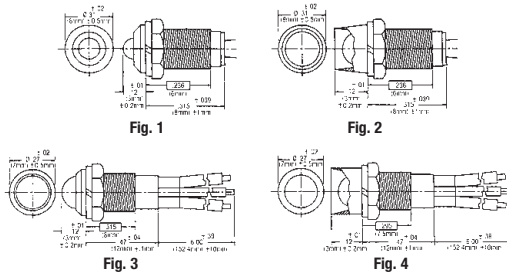
Mfg. Part No.	Color	V _F (V)	Current (mA)	Luminous Intensity (mcd)	Stock No.	Price Each		
						1-24	25-49	50-99
605-1111-110F	Red	2	15	37	30K5051	3.230	2.910	2.500
605-1211-110F	Green	2	15	16	30K5052	3.680	3.320	2.850
605-1311-110F	Yellow	2	15	30	30K5053	3.680	3.320	2.850
605-2111-110F	Red	2	15	37	30K5054	3.230	2.910	2.500

(2675)

606 SERIES FOR 6mm MOUNTING HOLE



Dialight



All indicators are supplied with integral resistor, except Mfg. Part Nos. with 110 suffix.

Mfg. Part No.	Fig	Color	V _F (V)	Current (mA)	Luminous Intensity (mcd)	Stock No.	Price Each		
							1-24	25-49	50-99
606-1111-110F	1	Red	2	5	8	30K5057	3.230	2.910	2.500
606-1211-110F	1	Green	2	15	30	30K5058	3.680	3.320	2.850
606-1311-110F	1	Yellow	2	15	30	30K5060	3.680	3.320	2.850
606-2111-110F	2	Red	2	5	8	30K5064	3.230	2.910	2.500
606-2211-110F	2	Green	2	15	30	30K5065	3.680	3.320	2.850
606-1415-110F	3	R/G	2	10	35/18	30K5061	7.590	6.840	5.880
606-1415-120F	3	R/G	6	10	35/18	30K5062	8.530	7.690	6.610
606-1415-130F	3	R/G	12	10	35/18	30K5063	8.530	7.690	6.610
606-2415-110F	4	R/G	2	10	35/18	30K5067	7.590	6.840	5.880
606-2415-120F	4	R/G	6	10	35/18	30K5068	8.530	7.690	6.610
606-2415-130F	4	R/G	12	10	35/18	30K5069	8.530	7.690	6.610

(2676)

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(148888)

607 SERIES FOR 7mm MOUNTING HOLE



Dialight

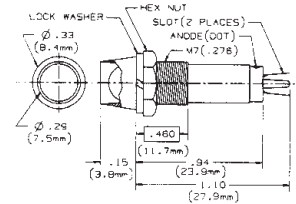


Fig. 1

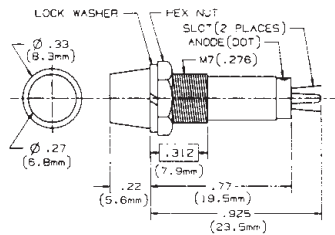


Fig. 2

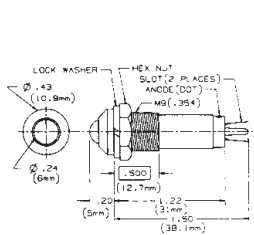


Fig. 3

All indicators have an integral resistor, except mfg. part nos. with -110 suffix.

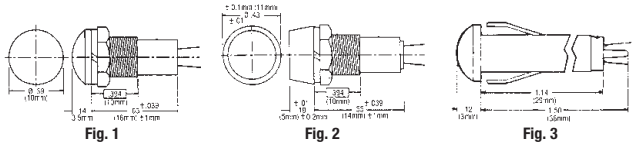
Mfg. Part No.	Fig.	Color	V _F (V)	Current (mA)	Luminous Intensity (mcd)	Stock No.	Price Each		
							1-24	25-99	100-249
607-1112-110F	3	Red	2	15	22	30K5071	3.860	3.210	2.580
607-1212-130F	2	Green	12	15	50	30K5076	5.150	4.280	3.450
607-2112-110F	*	Red	2	15	22	30K5080	3.860	3.210	2.580
607-2212-110F	*	Green	2	15	50	30K5083	4.230	3.520	2.830
607-2312-110F	*	Yellow	2	15	66	30K5086	4.230	3.520	2.830
607-2112-120F	1	Red	6	15	22	30K5081	4.860	4.040	3.250
607-2212-120F	1	Green	6	15	50	30K5084	5.150	4.280	3.450
607-2312-120F	1	Yellow	6	15	66	30K5087	5.150	4.280	3.450
607-2112-130F	1	Red	12	15	22	30K5082	4.860	4.040	3.250
607-2212-130F	1	Green	12	15	50	30K5085	5.150	4.280	3.450
607-2312-130F	1	Yellow	12	15	66	30K5088	5.150	4.280	3.450
607-3132-130F	2	Red	12	15	20	30K5090	3.420	2.840	2.290
607-3232-130F	2	Green	12	15	45	30K5092	3.720	3.090	2.490

*Same as Fig. 1 except length - 0.67" (2677)

608 SERIES FOR 8mm MOUNTING HOLE



Dialight



Forward voltage is 2V. Current is 15mA.

Mfg. Part No.	Color	Luminous Intensity (mcd)	Fig.	Stock No.	Price Each		
					1-24	25-49	50-99
608-1131-110F	Red	20	1	30K5095	3.660	3.100	2.870
608-1231-110F	Green	15	1	30K5101	4.130	3.500	3.240
608-1331-110F	Yellow	4	1	30K5105	4.130	3.500	3.240
608-3131-110F	Red	20	2	30K5118	3.660	3.100	2.870
608-3231-110F	Green	15	2	30K5119	4.130	3.500	3.240
608-3331-110F	Yellow	4	2	30K5120	4.130	3.500	3.240

608 SERIES 0.315" (8.00mm) LED SNAP-IN — FIG. 3

All indicators are supplied with an integral resistor. Forward voltage is 6V. Current is 15mA.

Mfg. Part No.	Color	VDC (V)	Stock No.	Price Each		
				1-24	25-49	50-99
608-1132-220F	Red	6	30K5096	4.700	3.980	3.680
608-1132-230F	Red	12	30K5097	4.700	3.980	3.680
608-1232-220F	Green	6	30K5102	5.020	4.260	3.940
608-1232-230F	Green	12	30K5103	5.020	4.260	3.940
608-1332-220F	Yellow	6	30K5106	5.020	4.260	3.940
608-1332-230F	Yellow	12	30K5107	5.020	4.260	3.940

(2608)

PANEL MOUNT INDICATORS

609 SERIES FOR 9mm MOUNTING HOLE



Dialight

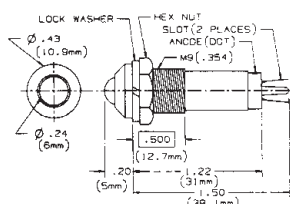


Fig. 1

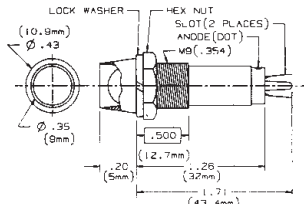


Fig. 2

All indicators are supplied with integral resistor. Mfg. part nos. 609-1122-140F/609-2122-140F have black housings, all others are chrome.

Mfg. Part No.	Fig.	Color	V _F (V)	Current (mA)	Luminous Intensity (mcd)	Stock No.	Price Each		
							1-24	25-99	100-249
● 609-1112-120F	1	Red	6	15	60	30K5123	4.600	3.820	3.080
● 609-1212-120F	1	Green	6	15	110	30K5129	4.600	3.820	3.080
● 609-2112-120F	2	Red	6	15	60	30K5141	4.600	3.820	3.080
● 609-2212-120F	2	Green	6	15	110	30K5147	4.600	3.820	3.080
● 609-1112-130F	1	Red	12	15	60	30K5124	4.600	3.820	3.080
● 609-1212-130F	1	Green	12	15	110	30K5130	4.600	3.820	3.080
● 609-1312-130F	1	Yellow	12	15	90	30K5136	4.600	3.820	3.080
● 609-2112-130F	2	Red	12	15	60	30K5142	4.600	3.820	3.080
● 609-2212-130F	2	Green	12	15	110	30K5148	4.600	3.820	3.080
● 609-2312-130F	2	Yellow	12	15	90	30K5154	4.600	3.820	3.080
● 609-1112-140F	1	Red	24	15	60	30K5125	4.600	3.820	3.080
● 609-1122-140F	1	Red	24	15	60	30K5128	4.970	4.130	3.320
● 609-2122-140F	2	Red	24	15	60	30K5146	4.970	4.130	3.320

(2609)

610 SERIES FOR 10mm MOUNTING HOLE



Dialight

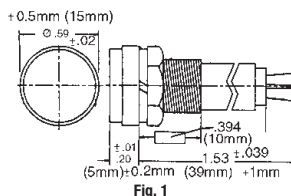


Fig. 1

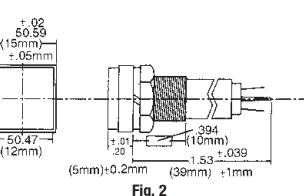


Fig. 2

All indicators are supplied with integral resistor. Forward voltage is 6V. Current is 15mA.

Mfg. Part No.	Color	Luminous Intensity (mcd)	Fig.	Stock No.	Price Each		
					1-24	25-99	100-249
● 610-3132-120F	Red	60	1	30K5159	4.050	3.360	2.710
● 610-3232-120F	Green	110	1	30K5160	4.230	3.520	2.830
● 610-3332-120F	Yellow	90	1	30K5162	4.230	3.520	2.830
● 610-4132-120F	Red	60	2	30K5163	4.050	3.360	2.710

(2610)

556 SERIES HIGH INTENSITY WATERTIGHT LED PANEL MOUNT INDICATORS



Dialight

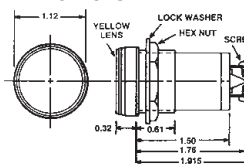


Fig. 1

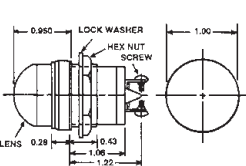


Fig. 2

556 series indicators incorporate InGaP and AlGaP technologies for higher intensities and feature 100,000-hour life, uniform illumination, watertight, and tamperproof design. For use indoors or out. Suited for instrument panels, electrical/electronic control panels and where highly visible indication is critical. Rugged metal housing. Uses 1" (25.4mm) mounting hole. Operating temperature: -25°C to +85°C. Domed or flat lens.

FLAT LENS—FIG. 1

Mfg. Part No.	Color	V _F (V)	Current (mA)	Intensity (foot lamberts)	Stock No.	Price Each	
						1-24	25-99
556-1803-304	Blue	12VDC	60	1200	26C9302	54.520	42.280
556-1603-304	Green	12VDC	60	4000	26C9298	46.520	36.070
556-1903-304	Orange	12VDC	95	3000	26C9305	40.360	31.300
556-1503-304	Red	12VDC	95	3000	16C1137	40.360	31.300
556-1003-304	White	12VDC	60	4000	26C9294	52.940	41.050

➤ CONTINUED ➤

556 SERIES HIGH INTENSITY WATERTIGHT LED PANEL MOUNT INDICATORS (CONT.)

Mfg. Part No.	Color	V _F (V)	Current (mA)	Intensity (foot lamberts)	Stock No.	Price Each	
						1-24	25-99
556-1703-304	Yellow	12VDC	95	3000	26C9300	40.360	31.300
556-1804-304	Blue	24VDC	32	1200	26C9303	55.500	43.040
556-1604-304	Green	24VDC	32	4000	95B3837	46.670	36.190
556-1904-304	Orange	24VDC	46	1200	26C9306	40.360	31.300
556-1504-304	Red	24VDC	46	3000	95B3835	40.360	31.300
556-1004-304	White	24VDC	32	4000	26C9295	55.500	43.040
556-1704-304	Yellow	24VDC	46	3000	95B7218	40.360	31.300
556-1608-304	Green	37.5VDC	16	4000	03H7993	58.020	44.990
556-1508-304	Red	37.5VDC	20	2600	03H7992	49.200	38.150
556-1708-304	Yellow	37.5VDC	20	2600	03H7994	49.200	38.150
556-1805-304	Blue	125VAC	9.5	500	26C9304	55.500	43.040
556-1605-304	Green	125VAC	9.5	1800	95B3838	46.670	36.190
556-1905-304	Orange	125VAC	10.5	500	26C9307	40.360	31.300
556-1505-304	Red	125VAC	10.5	1200	95B3836	40.360	31.300
556-1705-304	Yellow	125VAC	10.5	1200	95B3839	40.360	31.300

DOMED LENS—FIG. 2

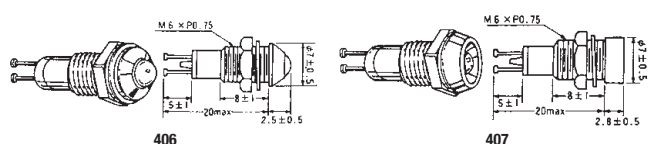
556-3803-304	Blue	12VDC	60	480	26C9316	55.500	43.040
556-3603-304	Green	12VDC	60	1800	26C9312	46.670	36.190
556-3503-304	Red	12VDC	95	1300	95B3840	40.360	31.300
556-3003-304	White	12VDC	60	1200	26C9308	55.500	43.040
556-3703-304	Yellow	12VDC	95	1300	26C9314	40.360	31.300
556-3804-304	Blue	24VDC	32	480	26C9317	55.500	43.040
556-3904-304	Orange	24VDC	46	480	26C9320	40.360	31.300
556-3004-304	White	24VDC	32	1200	26C9309	51.920	40.260
● 556-3504-304F	Red	24VDC	46	1300	33M4259	40.360	31.300
● 556-3604-304F	Green	24VDC	32	1800	33M4268	46.670	36.190
556-3608-304	Green	37.5VDC	16	1800	03H7999	58.020	44.990
556-3508-304	Red	37.5VDC	20	1000	03H7997	49.200	38.150
556-3708-304	Yellow	37.5VDC	20	1000	02J7131	49.200	38.150
556-3805-304	Blue	125VAC	9.5	180	26C9318	55.500	43.040
556-3605-304	Green	125VAC	9.5	700	95B3844	46.670	36.190
556-3607-304	Green	125VAC	10	1000	03H7998	46.670	36.190
556-3905-304	Orange	125VAC	10.5	180	26C9321	40.360	31.300
556-3505-304	Red	125VAC	10.5	500	95B3842	40.360	31.300
556-3507-304	Red	125VAC	10	700	91C6188	40.360	31.300
556-3005-304	White	125VAC	9	700	26C9310	55.500	43.040
556-3705-304	Yellow	125VAC	10.5	500	95B3846	40.220	31.190
556-3707-304	Yellow	125VAC	10	700	69H6818	70.990	55.050

(2605)

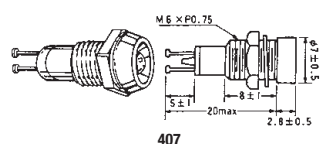
400 SERIES LED INDICATOR LIGHTS



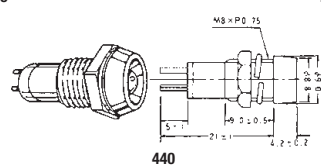
M/LEC



406



407



440

406 series LED indicator features macrodome lens. Voltage range from 2-24V with built-in resistor. Panel hole: 0.244" (6.2mm) - 2V models. All lamps chrome-plated brass bodies except items with 80 in mfg. part no. are black anodized brass. 407 series has large dish-shaped reflector around LED to produce a larger illumination area. Panel hole: 0.244" (6.2mm) - 2V models. 406 and 407 series 5, 12 and 24V models feature 0.28" (7.11mm) cutout size and solder tab terminations. 440 series is a larger version of 407 series to provide even greater illumination. Panel hole: 0.335" (8.5mm). All lamps feature black anodized body.

Mfg. Part No.	Color	Voltage (V)	Luminous Intensity (mcd)	Stock No.	Price Each	
					1-24	25-99
● LED-406R-5	Red	5	10.0	87F916	15.200	
● LED-406R-12	Red	12	10.0	87F917	15.200	
● LED-406R-24	Red	24	10.0	87F918	15.200	
● LED-406-RB0-24	Red	24	10.0	87F921	16.110	
● LED-406G	Green	2	1.0	35F3720	16.110	
● LED-406G-5	Green	5	10.0	87F932	16.110	
● LED-406G-12	Green	12	10.0	87F933	16.110	
● LED-407R	Red	2	0.50-0.60	35F3718	14.440	

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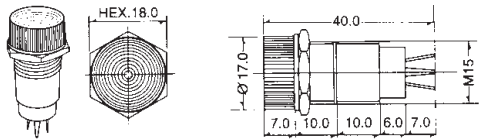
PANEL MOUNT INDICATORS

400 SERIES LED INDICATOR LIGHTS (CONT.)

Mfg. Part No.	Color	Voltage (V)	Luminous Intensity (mcd)	Stock No.	Price Each
					1-24
LED-407R-5	Red	5	10.0	87F922	15.200
LED-407R-12	Red	12	10.0	87F923	15.200
LED-407R-24	Red	24	10.0	87F924	15.200
LED-407G	Green	2	1.0	35F3721	16.110
LED-407G-5	Green	5	10.0	87F936	16.110
LED-407G-12	Green	12	10.0	87F937	16.110
LED-407-GBO-12	Green	12	10.0	87F940	17.010
LED-407Y-12	Yellow	12	0.20-1.6	87F963	16.110
LED-440G	Green	2	15.0	23F5501	14.140
LED-440R	Red	2	15.0	23F5500	13.230

(2517)

1501 SERIES LARGE INDICATOR LIGHTS



- Mount in 15mm Panel Hole
- Solder Terminals Standard
- Nut and Washer Provided

LED light source and top hat style lens for units listed. Other lens style, colors and light sources available; go online or call.

Mfg. Part No.	Lens	Voltage (V)	Current (mA)	Luminous Intensity (mcd)	Stock No.	Price Each
						1-24
L1501-12G	Green	12	20	20	52F9235	12.890
L1501-24G	Green	24	20	20	52F9236	12.890
L1501-12R	Red	12	20	500	52F9237	12.890
L1501-24R	Red	24	20	500	52F9238	12.890
L1501-24Y	Yellow	24	15	3.0	52F9240	12.890

(2659)

MODEL 550 MINIATURE INDICATOR LIGHTS



- 5mm Hole
- High-Impact Plastic Construction
- Nut and Washer Supplied
- Available in a Variety of Light Sources Including Incandescent, Neon or LED
- Available with a Choice of Flush, Top Hat Style or Dome Lens

Wire leads available as an option on 2V LED or all incandescent versions. All others are standard with external resistor and 6" wire leads. To order top hat lens, replace 550 in Mfg. Part No. with 551. Dome-type lens are 552. Incandescent and neon (with resistor) versions are also available. Replace L in the Mfg. Part No. with F for incandescent or NR for neon with resistor.

Mfg. Part No.	Voltage (V)	Color	Luminous Intensity (mcd)	Current (mA)	Stock No.	Price Each
						1-24
L550-12G	12	Green	1.0	30	95B7876	9.870
L550-24G	24	Green	1.0	30	95B7879	9.870
L550-24R	24	Red	0.6	30	95B7880	8.960
L550-24Y	24	Yellow	2.5	25	95B7881	9.870

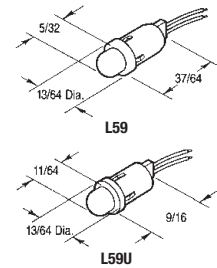
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(148881)

L59 AND L59UD SERIES SNAP-MOUNT LED INDICATORS FOR 1/4" MOUNTING HOLE



L59 Series:

- Black Nylon Housing and Bezel
- 0.062" Max. Panel Thickness
- Dome-Shape Lens

L59UD Series:

- Built-In Integral Bezel
- Diffused Wide Viewing Angle LED
- 6"-Coded Wire Leads
- Panel Range: 0.115"-0.13" (2.9-3.3mm)

L59 series LED indicators feature long life, solid state reliability. Types listed have 6" insulated wire leads. 2-volt and 6-volt indicators and indicators with bare wire terminals also available; go online or call. L59UD series indicators feature termination: 6"-coded wire leads; red = anode(+), black = cathode(-).

DIFFUSED

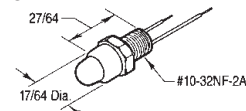
Mfg. Part No.	Lens Color	Volts (VDC)	Stock No.	Price Each	
				1-24	25-99
L59D-Y2-W	Yellow	2	60F1355	5.170	3.970
L59D-R12-W	Red	12	10F7458	7.590	5.840
L59D-G12-W	Green	12	10F7459	7.420	5.700
L59D-Y12-W	Yellow	12	10F7460	6.950	5.340
L59D-R24-W	Red	24	10F7461	6.270	4.820
L59D-G24-W	Green	24	10F7462	6.270	4.820
L59D-Y24-W	Yellow	24	10F7463	7.170	5.510

UNDIFFUSED

L59UD-G6-W	Green	6	16F753	5.630	4.330
L59UD-R12-W	Red	12	16F754	6.720	5.170
L59UD-G12-W	Green	12	16F755	5.560	4.280
L59UD-Y12-W	Yellow	12	16F756	8.120	6.240
L59UD-R24-W	Red	24	16F757	4.520	3.470
L59UD-G24-W	Green	24	16F758	4.520	3.470
L59UD-Y24-W	Yellow	24	16F759	6.720	5.170

(2511)

L58 SERIES SOLID STATE LED INDICATORS FOR .191" MOUNTING HOLE



Subminiature indicators have 6" leads, chrome bezel, hex nut. To 3/16" panel thickness. Diffused 60° viewing angle. Mfg. part nos. listed have 6" color-coded insulated wire leads. Indicators with bare wire terminal also available; go online or call.

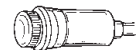
Mfg. Part No.	Lens Color	Volts (VDC)	Stock No.	Price Each	
				1-24	25-99
L58D-R2-W	Red	2	60F1325	14.240	9.850
L58D-G2-W	Green	2	60F1326	14.710	10.100
L58D-R6-W	Red	6	10F7464	16.180	11.180
L58D-G6-W	Green	6	10F7465	16.720	11.480
L58D-R12-W	Red	12	10F7467	16.180	11.180
L58D-G12-W	Green	12	10F7468	16.180	11.180
L58D-Y12-W	Yellow	12	10F7469	16.720	11.480
L58D-R24-W	Red	24	10F7470	16.180	11.180
L58D-G24-W	Green	24	10F7471	16.180	11.180
L58D-Y24-W	Yellow	24	10F7472	16.180	11.180

(2513)

L32R-CL SERIES DAYBRIGHT LED INDICATORS FOR 1/2" MOUNTING HOLE



LED indicator lights have a 360° viewing angle and daybright visibility. Features: flat cylindrical lens, black nylon housing, and 6" wire leads. Other voltage options, colors, lens styles and terminations available; go online or call. UL recognized, CSA certified.



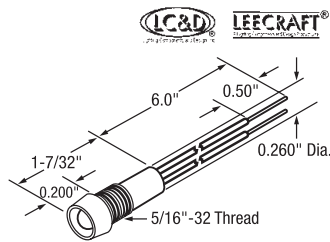
Mfg. Part No.	Lens Color	Volts (VDC)	Stock No.	Price Each	
				1-24	25-99
L32R-ACL24-1113	Amber	24	91F3978	22.740	17.720
L32R-GCL24-1112	Green	24	91F3979	22.740	17.720
L32R-RCL24-1111	Red	24	91F3980	22.740	17.720

(13154)

PANEL MOUNT INDICATORS

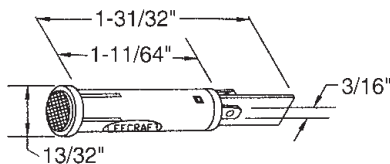
L79 SERIES LED INDICATORS
FOR 5/16" MOUNTING HOLE

L79 series LED indicators are constructed with a threaded housing with a built-in reflector. Each unit has a high brightness diffused LED, 2 color-coded 6" wire leads. 125VAC unit has a bipolar LED and 2 6" white wire leads. Lights mount into a 5/16" diameter mounting hole with a max. panel thickness of 0.250". A hex nut and lockwasher are supplied. Current: 20mA typical. Clear LEDs, 2V, 6V and other colors are available, go online or call.



Mfg. Part No.	Len Color	Volts (VDC)	Stock No.	Price Each	
				1-24	25-99
L79D-G12-W	Green	12	83F7617	16.370	12.860
L79D-G24-W	Green	24	83F7618	15.830	12.530
L79D-R125-W	Red	125*	83F7619	15.830	12.530
L79D-R12-W	Red	12	83F7620	16.370	12.860
L79D-R24-W	Red	24	83F7621	15.830	12.530

*AC Design Volts
(32202)

45 AND L45 SERIES NEON, INCANDESCENT AND
LED INDICATORS FOR 5/16" MOUNTING HOLE

45RN series neon indicators feature hi-hat lens with bezels, and 5/16" brass tab terminals (T3). 45RNG18 series have 7,000-hour life at 28V; 32,000-hour life at 24V. Speed nut included. L45RN series are solid-state LED press fit indicators with 5/16" quick-disconnect tab terminals and chrome bezel, 3.0 MCD. Speed nut included. 7th and 8th digits of type number indicate voltage. UL recognized, CSA certified. 6V, 14V and 250V units, 5/16" tab terminals, and LED units also available; go online or call.

125 VOLT 1/2 WATT, NEON WITH BUILT-IN RESISTOR

Mfg. Part No.	Lens Color	Life (Hrs.)	Stock No.	Price Each	
				1-24	25-99
45RN-2111T3	Red	25000	60F3600	14.730	10.200
45RN-2113T3	Amber	25000	60F3601	22.390	15.510
45RN-2112T3	Green	25000	98B9503	22.390	15.510

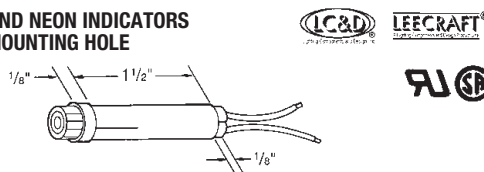
28 VOLT 0.04 AMP, INCANDESCENT

45RNG18-2111T3	Red	7000	60F3616	14.730	10.200
45RNG18-2112T3	Green	7000	60F3617	14.730	10.200
45RNG18-2115T3	White	7000	60F3620	31.040	21.500
45RNG18-2114T3	Blue	7000	60F3619	31.040	21.500

SOLID-STATE, LED

L45RN-G12-2112	Green	100000	10F7483	21.210	14.690
L45RN-R24-2111	Red	100000	10F7485	11.510	7.980
L45RN-G24-2112	Green	100000	10F7486	12.630	8.750
L45RN-Y24-2116	Yellow	100000	10F7487	15.290	10.590

(2515)

MINIATURE LED AND NEON INDICATORS
FOR 5/16" PANEL MOUNTING HOLE

L36 and 36 HI-Hat

UL listed, CSA certified. Also available without resistor (41 series) and in other voltages and LED colors; go online or call.

SPECIFICATIONS

36EN (Neon)	125V, 1/2 W, 25,000 Life Hours
36HEN (Neon)	High-brightness neon lamp, aluminum bezel, 6" wire leads, 20-gauge with insulated plastic
L36 and L41 (LED)	Color-coded 6" wire leads, stripped 1/2", red=anode(+), black=cathode(-)
L36URN (LED)	3/4" front panel projection, low-profile design, 1 3/4" long
L36EN (LED)	Standard, front-panel mounting indicators, supplied with speed nut, 1 3/4" long. 8th and 9th digit of type numbers indicate voltage
L41EN (LED)	Compact for minimal back panel projection, supplied with speed nut, 1" long

36EN AND 36HEN SERIES WITH BEZEL AND FLUSH LENS

Mfg. Part No.	Lens Color	Voltage	Stock No.	Price Each	
				1-24	25-99
36EN-2311	Red	125 V	60F1254	5.020	3.440
36EN-2312	Green	125 V	16F789	6.740	4.620

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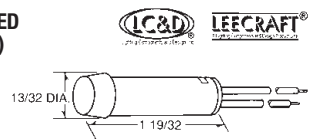
MINIATURE LED AND NEON INDICATORS FOR 5/16" PANEL MOUNTING
HOLE (CONT.)

Mfg. Part No.	Lens Color	Voltage	Stock No.	Price Each	
				1-24	25-99
36EN-2313	Amber	125 V	60F1255	8.150	5.590
36HEN-2311	Red	250 V	16F717	9.080	6.230
L36EN-G12-2112	Green	12 V	16F711	12.270	8.410
L36EN-G24-2112	Green	24V	16F712	12.270	8.410
L36EN-R12-2111	Red	12 V	16F713	16.800	11.520
L36EN-R24-2111	Red	24V	16F714	12.270	8.410
L36URN-R24-2111	Red	24V	16F702	17.010	11.660
L41EN-G24-2112	Green	24V	16F704	12.270	8.410
L41EN-R12-2111	Red	12 V	16F705	17.010	11.660
L41EN-R24-2111	Red	24V	16F706	10.160	6.970

(2621)

34 SERIES NEON; INCANDESCENT OR LED
INDICATORS (FOR 3/8" MOUNTING HOLE)

- One-Piece Housing w/Cylindrical Flat-Top Lens
- Panel Range: 0.020"
- Current-Limiting Resistors For 125V and 250V
- 1/4W with 25,000 Life Hours
- 6" Wire Leads, Stripped 1/2"



28V incandescent indicators are 0.04A with 7,000 life hours (32,000 hours at 24V.) 6V units and 14V amber incandescent indicators available. L34 series LED solid-state indicators feature color code wire leads; red = anode(+), black = cathode(-). Other 2V and 6V LED indicators also available; go online or call for ordering information.

NEON INDICATORS

Mfg. Part No.	Lens Color	Volts	Stock No.	Price Each	
				1-24	25-99
34-0581	Red	125V	16F796	9.020	6.890
34-0582	Green	125V	16F797	12.080	9.230
34-0583	Amber	125V	16F798	9.020	6.890
34H-0581	Red	250V	16F799	9.020	6.890

INCANDESCENT INDICATORS

34G18-0581	Red	28V	16F801	9.130	6.990
34G18-0582	Green	28V	16F803	9.130	6.990

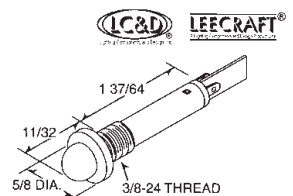
SOLID-STATE LED INDICATORS

L34-R24-0581	Red	24VDC	16F765	12.600	9.630
L34-G24-0582	Green	24VDC	16F766	12.600	9.630
L34-Y24-0586	Yellow	24VDC	16F767	12.600	9.630

(2643)

75 AND L75 SERIES INDICATORS
FOR 3/8" MOUNTING HOLE

- 75 Series Oil-Tight Indicators
 - Dome Lens and Nickel-Plated Bezel
 - Current-Limiting Resistors for 125V and 250V
 - 1/4W with 25,000 Life Hours
 - Termination: 6" Wire Leads, Stripped 1/2" or 3/4"
 - O.C. Terminals with T Suffix
- L75 Series Solid-State Indicators
 - Color-Coded Wire Leads



Red = anode(+), black = cathode(-); or one tinned 5/16" terminal to identify the anode(+) and one non-tinned terminal denoting cathode(-). Amber indicators, and 2V and 6V indicators also available. Go online or call for ordering information.

NEON INDICATORS

Mfg. Part No.	Lens Color	Volts	Stock No.	Price Each		
				1-24	25-99	100+
75R-2211	Red	125V	16F733	5.900	4.450	3.000
75R-2212	Green	125V	16F734	6.870	5.180	3.490
75R-2213	Amber	125V	16F735	5.550	4.190	2.820
75R-2211T	Red	125V	16F736	5.780	4.360	2.940
75R-2212T	Green	125V	16F737	6.400	4.820	3.250
75R-2213T	Amber	125V	16F738	6.420	4.840	3.260
75HR-2211	Red	250V	16F739	9.870	7.440	5.010
75HR-2212T	Green	250V	16F768	21.890	16.500	11.110

SOLID-STATE LED INDICATORS

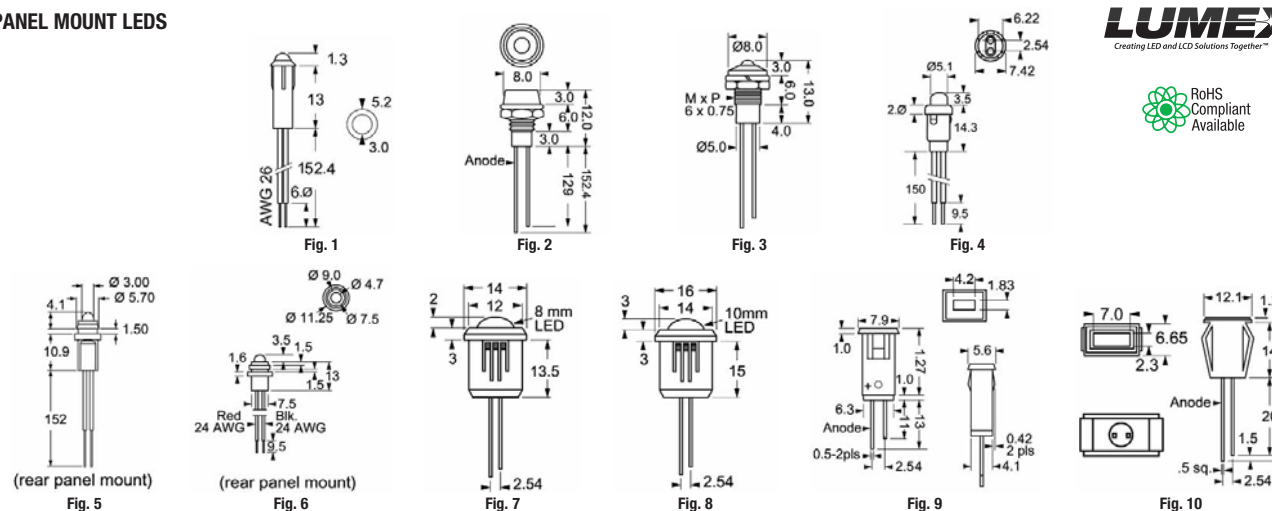
L75R-R12-2211	Red	12VDC	16F769	11.280	8.510	5.730
L75R-R24-2211	Red	24VDC	16F773	9.770	7.360	4.960
L75R-R24-2211T	Red	24VDC	16F775	11.860	8.940	6.020
L75R-G24-2212T	Green	24VDC	16F776	8.320	6.270	4.220

(2654)

PANEL MOUNT INDICATORS

PANEL MOUNT LEDS

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Mfg. Part No.	Fig.	Description	Emitted Color	Lens Color	Wavelength (nm)	V _F (V)	I _F (mA)	Luminous Intensity (mcd)	View. Angle (°)	Stock No.	Price Each
SSI-LXH312ID-150	1	T-1 (3mm)	Red	Red Diff.	635	2.0	30	30	60°	04M4607	0.859
SSI-LXH312GD-150	1	T-1 (3mm)	Green	Green Diff.	565	2.1	25	30	60°	85K9074	0.859
SSI-LXH312SRD-150	1	T-1 (3mm)	Super Red	Red Diff.	660	1.7	30	80	60°	28M9292	1.030
SSI-LXH312YD-150	1	T-1 (3mm)	Yellow	Yellow Diff.	585	2.1	30	30	60°	09J9227	0.859
SSI-LXR1612GD	2	T-1 (3mm)	Green	Green Diff.	565	2.2	25	30	60°	16M1405	1.880
SSI-LXR3612SRD	3	T-1 (3mm)	Super Red	Red Diff.	660	1.8	30	65	60°	85K9075	2.070
SSI-LXR3612ID	3	T-1 (3mm)	Red	Red Diff.	635	2.0	30	30	60°	28M9293	1.810
SSI-LXR3612YD	3	T-1 (3mm)	Yellow	Yellow Diff.	585	2.1	30	30	60°	11M1720	1.810
SSI-LXH600ID-150	4	T-1 ¼ (5mm)	Red	Red Diff.	635	2.0	30	40	60°	09J9234	0.859
SSI-LXH600GD-150	4	T-1 ¼ (5mm)	Green	Green Diff.	565	2.2	25	30	60°	09J9232	0.859
SSI-LXH600YD-150	4	T-1 ¼ (5mm)	Yellow	Yellow Diff.	585	2.1	30	30	60°	09J9236	0.859
SSI-LXH9ID-150	4	T-1 ¼ (5mm)	Red	Red Diff.	635	2.0	30	40	60°	01M9112	2.230
SSI-LXH387SRD	...	T-1 ¼ (5mm)	Super Red	Red Diff.	660	1.7	30	60	120°	09J9230	1.590
SSI-LXH387ID	...	T-1 ¼ (5mm)	Red	Red Diff.	635	2.0	30	10	120°	09J9229	1.380
SSI-LXH387YD	...	T-1 ¼ (5mm)	Yellow	Yellow Diff.	585	2.1	30	10	120°	09J9231	1.380
SSI-LXH387GD	...	T-1 ¼ (5mm)	Green	Green Diff.	565	2.2	25	10	120°	09J9228	1.350
SSI-RM3091GD-150	5	T-1 ¼ (5mm)	Green	Green Diff.	565	2.2	25	30	60°	09J9644	2.500
SSI-LXH9YD-150	6	T-1 ¼ (5mm)	Yellow	Yellow Diff.	585	2.1	30	30	60°	09J9243	2.230
SSI-LXH9GD-150	6	T-1 ¼ (5mm)	Green	Green Diff.	565	2.2	25	30	60°	09J9241	2.230
SSI-LXR4815SRD	6	T-1 ¼ (5mm)	Red	Red Diff.	660	1.8	30	300	60°	54M6085	1.840
SSI-LXR4815ID	6	T-1 ¼ (5mm)	Red	Red Diff.	635	2.0	30	40	60°	04M4608	1.700
SSI-LXR4815YD	6	T-1 ¼ (5mm)	Yellow	Yellow Diff.	585	2.1	30	20	60°	09J9643	1.700
SSI-LXR4815GD	6	T-1 ¼ (5mm)	Green	Green Diff.	565	2.2	25	30	60°	09J9640	1.700
SSI-LXH8080SRD	7	8mm	Super Red	Red Diff.	660	1.7	30	80	60°	09J9239	1.340
SSI-LXH8080ID	7	8mm	Red	Red Diff.	635	2.0	30	40	60°	09J9238	0.800
SSI-LXH8080YD	7	8mm	Yellow	Yellow Diff.	585	2.1	30	30	60°	09J9240	1.110
SSI-LXH8080GD	7	8mm	Green	Green Diff.	565	2.2	25	30	60°	09J9237	1.110
SSI-LXH1090SRD	8	10mm	Super Red	Red Diff.	660	1.7	30	80	60°	09J9222	1.360
SSI-LXH1090ID	8	10mm	Red	Red Diff.	635	2.0	30	40	60°	09J9221	1.130
SSI-LXH1090YD	8	10mm	Yellow	Yellow Diff.	585	2.1	30	30	60°	09J9223	1.130
SSI-LXH1090GD	8	10mm	Green	Green Diff.	565	2.2	25	30	60°	09J9220	1.130
SSI-LXMP059ID	9	2 x 5mm	Red	Red Diff.	635	2.0	30	10	110°	09J9245	0.674
SSI-LXMP059YD	9	2 x 5mm	Yellow	Yellow Diff.	585	2.1	30	10	110°	09J9246	0.674
SSI-LXMP059GD	9	2 x 5mm	Green	Green Diff.	565	2.2	25	10	110°	09J9244	0.674
SSI-LXH072ID	10	2.3 x 7mm	Red	Red Diff.	635	2.0	30	15	110°	09J9218	0.891
SSI-LXH072YD	10	2.3 x 7mm	Yellow	Yellow Diff.	585	2.1	30	9	110°	09J9219	0.903
SSI-LXH072GD	10	2.3 x 7mm	Green	Green Diff.	565	2.2	25	9	110°	09J9217	0.891

(80505)



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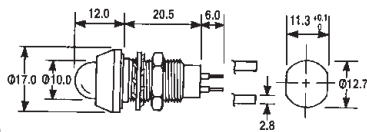
PANEL MOUNT INDICATORS

677 SERIES HIGH-PERFORMANCE PANEL MOUNTING WATER-TIGHT IP67 LED INDICATORS (CONT.)

Mfg. Part No.	Color	Voltage V _r @ 20mA	Current (mA@DC)	Luminous Intensity I _v @ 20mA	Wave-length (nm)	Stock No.	Price Each
677-532-22	Green	24 VDC	20	23000	527	68K1255	24.960
677-532-23	Green	24-28 VDC	20	23000	527	35C0937	24.960
677-532-86	Green	115 VAC	6	23000	527	28H9169	29.460
677-930-21	Blue	12 VDC	20	7000	470	99H8477	29.460
677-930-22	Blue	24 VDC	20	7000	470	99H8478	29.460
677-930-23	Blue	24-28 VDC	20	7000	470	99H8479	29.460
677-997-21	Cold White	12 VDC	20	14000	...	35C0938	24.960
677-997-22	Cold White	24 VDC	20	14000	...	99H8480	29.460
677-997-23	Cold White	24-28 VDC	20	14000	...	68K1256	24.960

(69181)

651 SERIES WATER-TIGHT IP67 LED INDICATORS



- 12.7mm Mounting
- Black Anodized Aluminum Housing
- Full Internal Potting Making the Product Ideal for Use in Arduous Environments
- Excellent Wide Viewing Angle Characteristics
- Sealed to IP67

Wide viewing angle. Operating temperature: -20°C to +60°C. Lens: colored diffused. Mean time between failure: 100,000 hours.

STANDARD INTENSITY

Mfg. Part No.	Color	Voltage V _r @ 20mA	Current (mA@DC)	Luminous Intensity I _v @ 20mA	Wave-length (nm)	Stock No.	Price Each
651-105-04	Red	2 VDC	20	100	627	99H8398	34.330
651-105-20	Red	5-6 VDC	18	100	627	99H8399	34.330
651-105-21	Red	12 VDC	20	90	625	68K1249	29.850
651-105-22	Red	24 VDC	20	100	627	68K1250	29.850
651-105-23	Red	24-28 VDC	20	100	627	99H8400	34.330
651-105-75	Red	110 VAC	9	100	627	99H8401	34.330
651-105-76	Red	230 VAC	4	100	627	99H8402	34.330
651-111-04	Yellow	2.1 VDC	20	50	590	99H8403	34.330
651-111-20	Yellow	5-6 VDC	20	50	590	99H8404	34.330
651-111-21	Yellow	12 VDC	20	50	590	35C0925	29.850
651-111-22	Yellow	24 VDC	20	50	590	68K1251	29.850
651-111-23	Yellow	24-28 VDC	20	50	590	99H8405	34.330
651-111-75	Yellow	110 VAC	9	50	590	99H8406	34.330
651-111-76	Yellow	230 VAC	4	50	590	99H8407	34.330
651-114-04	Green	2.2 VDC	20	60	565	99H8408	34.330
651-114-20	Green	5-6 VDC	20	60	565	99H8409	34.330
651-114-21	Green	12 VDC	20	60	565	35C0927	29.850
651-114-22	Green	24 VDC	20	60	565	68K1252	29.850
651-114-23	Green	24-28 VDC	20	60	565	99H8410	34.330
651-114-75	Green	110 VAC	9	60	565	99H8411	34.330
651-114-76	Green	230 VAC	4	60	565	99H8412	34.330

HIGH INTENSITY

651-102-04	Red	1.8 VDC	20	450	660	99H8393	34.330
651-102-20	Red	5-6 VDC	20	450	660	99H8394	34.330
651-102-21	Red	12 VDC	20	450	660	68K1247	29.850
651-102-22	Red	12 VDC	20	100	627	68K1248	29.850
651-102-23	Red	24-28 VDC	20	450	660	99H8395	34.330
651-102-75	Red	110 VAC	9	450	660	99H8396	34.330
651-102-76	Red	230 VAC	4	450	660	99H8397	34.330

(69182)

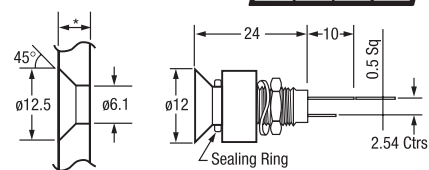
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(148859)

696 SERIES WATER-TIGHT IP67 LED INDICATORS



- 6.1mm Mounting
- Black Anodized Aluminum
- Low-Profile Styling

Lens: colored diffused. Wide angle viewing. Operating temperature: -40°C ~ +60°C. Mean time between failure = 100,000 hours.

Mfg. Part No.	Color	Voltage (VDC @ 20mA)	Current (mA@DC)	Luminous Intensity I _v @ 20mA	Wave-length (nm)	Stock No.	Price Each
696-301-21	Red	12 VDC	20	850	660	68K1257	42.990
696-301-22	Red	24 VDC	20	900	660	35C0943	42.990
696-301-23	Red	24-28 VDC	20	900	660	31M0858	47.050
696-324-21	Green	12 VDC	20	7800	525	68K1258	42.990
696-324-22	Green	24 VDC	20	7800	525	68K1259	42.990
696-325-21	Yellow	12 VDC	20	4300	590	68K1260	42.990
696-325-22	Yellow	24 VDC	20	4300	590	68K1261	42.990
696-325-23	Yellow	24-28 VDC	20	4300	590	31M0859	47.050
696-934-21	Blue	12 VDC	20	2300	470	99H8510	47.050
696-934-22	Blue	24 VDC	20	2300	470	82H5985	47.050
696-934-23	Blue	24-28 VDC	20	2300	470	31M0860	47.050
696-998-21	Cold White	12 VDC	20	4600	...	99H8511	47.050
696-998-22	Cold White	24 VDC	20	4600	...	99H8512	47.050
696-998-23	Cold White	24-28 VDC	20	4600	...	31M0861	47.050

(69183)

507 SERIES PROFESSIONAL LED INDICATORS 8.1mm DIA MOUNTING



Features:

- Robust bright nickel plated brass housing
- Low profile styling, sunlight readable LEDs
- Sealed to IP67
- Suitable for high vibration applications



- Internal reverse protection diode fitted as standard in all voltage models

The 507 Series is a 8.1mm mounting, Professional LED Panel Indicator featuring a high intensity LED element in a range of colors and voltages. A reverse protection diode is fitted as standard in all voltage models. Termination is achieved by standard solder/crimp tags. This particular device is fitted with a low profile, colored diffused lens assembly to provide excellent wide angle viewing. The precision turned housing is manufactured from brass with a high quality, bright nickel finish, and is supplied complete with full mounting hardware.

Mfg. Part No.	Color	Voltage (Vopr)	Current (mA@DC)	Luminous Intensity (mcd) I _v @ 20mA	Wave-length (nm)	Stock No.	Price Each
507-501-21	Red	12 V	19	11000	643	96M8565	20.390
507-501-23	Red	28 V	20	11000	643	96M8566	20.390
507-521-21	Yellow	12 V	19	16000	591	96M8567	20.390
507-521-23	Yellow	28 V	20	16000	591	96M8568	20.390
507-532-21	Green	12 V	20	23000	527	96M8569	20.390
507-532-23	Green	28 V	20	23000	527	88M0620	20.390
507-930-21	Blue	12 V	20	7000	470	96M8570	20.390
507-930-23	Blue	28 V	20	7000	470	96M8572	20.390
507-997-21	Cool White	12 V	20	14000	...	96M8574	20.390
507-997-23	Cool White	28 V	20	14000	...	96M8576	20.390

(147213)

524 SERIES PROFESSIONAL LED INDICATORS 8.1mm DIA MOUNTING



Features:

- Robust stainless steel housing
- Low profile styling, sunlight readable LEDs
- Sealed to IP67
- Wide viewing angle
- Suitable for high vibration applications
- Internal reverse protection diode fitted as standard in all voltage models.



The 524 Series has precision turned stainless steel housing that supports the LED element in a range of colors and voltages. Termination is achieved by standard solder/crimp tags. Fitted with a low profile, colored diffused lens assembly. Comes complete with full mounting hardware.

Mfg. Part No.	Color	Voltage V _r @ 20mA	Current (mA@DC)	Luminous Intensity I _v @ 20mA	Wave-length (nm)	Stock No.	Price Each
524-501-21	Red	12 VDC	20	11000	643	35C0906	38.020
524-501-22	Red	24 VDC	20	11000	643	35C0907	38.020
524-501-23	Red	28 VDC	20	11000	643	31M0787	38.020

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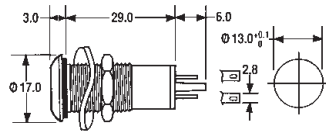
PANEL MOUNT INDICATORS

524 SERIES PROFESSIONAL LED INDICATORS 8.1mm DIA MOUNTING (CONT.)

Mfg. Part No.	Color	Voltage V _r @ 20mA	Current (mA@DC)	Luminous Intensity I _v @ 20mA	Wavelength (nm)	Stock No.	Price Each 1-24
● 524-521-21	Yellow	12 VDC	20	16000	591	79K4494	38.020
● 524-521-22	Yellow	24 VDC	20	16000	591	35C0909	38.020
● 524-521-23	Yellow	28 VDC	20	16000	591	31M0788	38.020
● 524-532-21	Green	12 VDC	20	23000	527	35C0910	38.020
● 524-532-22	Green	24 VDC	20	23000	527	35C0911	38.020
● 524-532-23	Green	28 VDC	20	23000	527	31M0789	38.020
● 524-532-86	Green	115 VAC	20	23000	527	28H9168	38.020
● 524-930-21	Blue	12 VDC	20	7000	470	99H7604	38.020
● 524-930-22	Blue	24 VDC	20	7000	470	99H7605	38.020
● 524-930-23	Blue	28 VDC	20	7000	470	31M0790	38.020
● 524-997-21	Cold White	12 VDC	20	14000	...	99H7606	38.020
● 524-997-22	Cold White	24 VDC	20	14000	...	99H7607	38.020
● 524-997-23	Cold White	28 VDC	20	14000	...	31M0791	38.020

(90560)

528 SERIES WATER-TIGHT IP67 LED INDICATORS



- Robust Stainless Steel Housing
- Low-Profile Styling

- Mounting: 13mm

Lens: colored diffused. Wide viewing angle. Operating temperature: -40°C to +60°C. Mean time between failure: 100,000 hours.

Mfg. Part No.	Color	Voltage V _r @ 20mA	Current (mA@DC)	Luminous Intensity I _v @ 20mA	Wavelength (nm)	Stock No.	Price Each 1-9
● 528-501-21	Red	12 VDC	19	11000	643	68K1242	39.290
● 528-501-22	Red	24 VDC	20	11000	643	68K1243	39.290
● 528-501-23	Red	24-28 VDC	20	11000	643	31M0792	55.300
● 528-501-72	Red	24 VAC	19	11000	643	31M0793	55.300
● 528-501-75	Red	110 VAC	7	11000	643	35C0914	39.290
● 528-501-76	Red	230 VAC	3	11000	643	99H7622	55.300
● 528-521-21	Yellow	12 VDC	19	16000	591	68K1244	39.290
● 528-521-22	Yellow	24 VDC	20	16000	591	35C0916	39.290
● 528-521-23	Yellow	24-28 VDC	20	16000	591	31M0794	55.300
● 528-521-72	Yellow	24 VAC	19	16000	591	31M0795	55.300
● 528-521-75	Yellow	110 VAC	7	16000	591	35C0917	39.290
● 528-521-76	Yellow	230 VAC	3	16000	591	99H7623	55.300
● 528-532-21	Green	12 VDC	19	23000	527	68K1245	39.290
● 528-532-22	Green	24 VDC	20	23000	527	68K1246	39.290
● 528-532-23	Green	24-28 VDC	20	23000	527	31M0796	55.300
● 528-532-72	Green	24 VAC	19	23000	527	31M0797	55.300
● 528-532-75	Green	110 VAC	7	23000	527	35C0920	39.290
● 528-532-76	Green	230 VAC	3	23000	527	99H7624	55.300
● 528-930-21	Blue	12 VDC	19	7000	470	99H7625	55.300
● 528-930-22	Blue	24 VDC	20	7000	470	99H7626	55.300
● 528-930-23	Blue	24-28 VDC	20	7000	470	31M0798	55.300
● 528-930-72	Blue	24 VAC	19	7000	470	31M0799	55.300
● 528-930-75	Blue	110 VAC	7	7000	470	99H7627	55.300
● 528-930-76	Blue	230 VAC	3	7000	470	99H7628	55.300
● 528-997-21	Cold White	12 VDC	19	14000	...	99H7629	55.300
● 528-997-22	Cold White	24 VDC	20	14000	...	99H7630	55.300
● 528-997-23	Cold White	24-28 VDC	20	14000	...	31M0800	55.300
● 528-997-72	Cold White	24 VAC	19	14000	...	31M0801	55.300
● 528-997-75	Cold White	110 VAC	7	14000	...	99H7631	55.300
● 528-997-76	Cold White	230 VAC	3	14000	...	99H7632	55.300

(69170)

531 SERIES PROFESSIONAL LED INDICATORS 12.7mm DIA MOUNTING



Features:

- Each product will operate over a wide voltage input range
- Bright nickel plated brass housing
- Full internal potting to resist shock and vibration
- Sealed to IP67
- True Bi-polar product for low voltage DC applications

The 531 Series is a 12.7mm mounting, Professional LED Panel Indicator featuring a high intensity LED element in a range of colors. This is a truly bi-polar product and operates over a wide voltage range. Termination is achieved by standard solder/crimp tags. This particular device is fitted with a low profile, colored diffused lens assembly to provide excellent wide angle viewing. The precision turned housing is manufactured from brass with a high quality, bright nickel finish, and is supplied complete with full mounting hardware.

Mfg. Part No.	Color	Voltage (Vopr)	Current (mA@DC)	Luminous Intensity (mcd) I _v @ 20mA	Wavelength (nm)	Stock No.	Price Each 1-9
● 531-501-63	Red	28 V	16	11000	643	79M6901	27.240
● 531-501-75	Red	110 V	6	11000	643	79M6902	27.240
● 531-521-63	Yellow	28 V	16	16000	591	79M6903	27.240
● 531-521-75	Yellow	110 V	6	16000	591	79M6904	27.240
● 531-532-63	Green	28 V	16	23000	527	79M6905	27.240
● 531-532-75	Green	110 V	6	23000	527	79M6906	27.240
● 531-930-63	Blue	28 V	16	7000	470	79M6907	27.240
● 531-930-75	Blue	110 V	6	7000	470	79M6908	27.240
● 531-997-63	Cool White	28 V	16	14000	...	79M6909	27.240
● 531-997-75	Cool White	110 V	6	14000	...	79M6910	27.240

(147214)

534 SERIES PROFESSIONAL LED INDICATORS 8.1mm DIA MOUNTING



Features:

- Each product will operate over a wide voltage input range
- Robust stainless steel housing
- Full internal potting to resist shock and vibration
- Sealed to IP67
- True Bi-polar product for low voltage DC applications

The 534 Series is a 8.1mm mounting, Professional LED Panel Indicator featuring a high intensity LED element in a range of colors and voltages. This is a truly bi-polar product and operates over a wide voltage range. Termination is achieved by standard solder/crimp tags. This particular device is fitted with a low profile, colored diffused lens assembly to provide excellent wide angle viewing. The precision turned housing is manufactured from high quality stainless steel, and is supplied complete with full mounting hardware.

Mfg. Part No.	Color	Voltage (Vopr)	Current (mA@DC)	Luminous Intensity (mcd) I _v @ 20mA	Wavelength (nm)	Stock No.	Price Each 1-9
● 534-501-63	Red	28 V	16	11000	643	79M5333	24.370
● 534-501-75	Red	110 V	6	11000	643	79M5334	24.370
● 534-521-63	Yellow	28 V	16	16000	591	79M5335	24.370
● 534-521-75	Yellow	110 V	6	16000	591	79M5336	24.370
● 534-532-63	Green	28 V	16	23000	527	79M5337	24.370
● 534-532-75	Green	110 V	6	23000	527	79M5338	24.370
● 534-930-63	Blue	28 V	16	7000	470	79M5339	24.370
● 534-930-75	Blue	110 V	6	7000	470	79M5340	24.370
● 534-997-63	Cool White	28 V	16	14000	...	79M5341	24.370
● 534-997-75	Cool White	110 V	6	14000	...	79M5342	24.370

(147215)



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(148830)

PANEL MOUNT INDICATORS

**537 SERIES
PROFESSIONAL LED
INDICATORS 8.1mm
DIA MOUNTING****NEW TECHNOLOGY****Features:**

- Each product will operate over a wide voltage input range
- Bright nickel plated brass housing
- Full internal potting to resist shock and vibration
- Sealed to IP67
- True Bi-polar product for low voltage DC applications



The **537 Series** is a 8.1mm mounting, Professional LED Panel Indicator featuring a high intensity LED element in a range of colors and voltages. This is a truly bi-polar product and operates over a wide voltage range. Termination is achieved by standard solder/crimp tags. This particular device is fitted with a low profile, colored diffused lens assembly to provide excellent wide angle viewing. The precision turned housing is manufactured from brass with a high quality, bright nickel finish, and is supplied complete with full mounting hardware.

Mfg. Part No.	Color	Voltage (Vopr)	Current (mA@DC)	Luminous Intensity (mcd) I _v @ 20mA	Wavelength (nm)	Stock No.	Price Each
● 537-501-63	Red	28 V	16	11000	643	79M6919	23.400
● 537-501-75	Red	110 V	6	11000	643	79M6920	23.400
● 537-521-63	Yellow	28 V	16	16000	591	79M6921	23.400
● 537-521-75	Yellow	110 V	6	16000	591	79M6922	23.400
● 537-532-63	Green	28 V	16	23000	527	79M6923	23.400
● 537-532-75	Green	110 V	6	23000	527	79M6924	23.400
● 537-930-63	Blue	28 V	16	7000	470	79M6925	23.400
● 537-930-75	Blue	110 V	6	7000	470	79M6926	23.400
● 537-997-63	Cool White	28 V	16	14000	...	79M6927	23.400
● 537-997-75	Cool White	110 V	6	14000	...	79M6928	23.400

(147216)

**538 SERIES
PROFESSIONAL
LED INDICATORS
12.7mm DIA
MOUNTING****NEW TECHNOLOGY****Features:**

- Each product will operate over a wide voltage input range
- Robust stainless steel housing
- Full internal potting to resist shock and vibration
- Sealed to IP67
- True Bi-polar product for low voltage DC applications



The **538 Series** is a 12.7mm mounting, Professional LED Panel Indicator featuring a high intensity LED element in a range of colors and voltages. This is a truly bi-polar product and operates over a wide voltage range. Termination is achieved by standard solder/crimp tags. This particular device is fitted with a low profile, colored diffused lens assembly to provide excellent wide angle viewing. The precision turned housing is manufactured from high quality stainless steel, and is supplied complete with full mounting hardware.

Mfg. Part No.	Color	Voltage (Vopr)	Current (mA@DC)	Luminous Intensity (mcd) I _v @ 20mA	Wavelength (nm)	Stock No.	Price Each
● 538-501-63	Red	28 V	16	11000	643	79M5343	27.240
● 538-501-75	Red	110 V	6	11000	643	79M5344	27.240
● 538-521-63	Yellow	28 V	16	16000	591	79M5345	27.240
● 538-521-75	Yellow	110 V	6	16000	591	79M5346	27.240
● 538-532-63	Green	28 V	16	23000	527	79M5347	27.240
● 538-532-75	Green	110 V	6	23000	527	79M5348	27.240
● 538-930-63	Blue	28 V	16	7000	470	79M5349	27.240
● 538-930-75	Blue	110 V	6	7000	470	79M5350	27.240
● 538-997-63	Cool White	28 V	16	14000	...	79M5351	27.240
● 538-997-75	Cool White	110 V	6	14000	...	79M5352	27.240

(147217)

**604 SERIES
PROFESSIONAL LED
INDICATORS 5mm
DIA MOUNTING****NEW TECHNOLOGY****Features:**

- Bright nickel plated brass housing
- Excellent wide viewing angle characteristics
- Sealed to IP67
- Suitable for high vibration applications
- Internal reverse protection diode fitted as standard in all voltage models



The **604 Series** is a 5.0mm mounting, Professional LED Panel Indicator featuring a high intensity LED element in a range of colors and voltages. A reverse protection diode is fitted as standard in all voltage models. Termination is achieved by 150mm of color coded flying leads. This particular device is fitted with a low profile, smoked lens assembly to provide excellent wide angle viewing and on/off contrast ratio. The precision turned housing is manufactured from brass with a high quality, bright nickel finish, and is supplied complete with full mounting hardware.

Mfg. Part No.	Color	Voltage (Vopr)	Current (mA@DC)	Luminous Intensity (mcd) I _v @ 20mA	Wavelength (nm)	Stock No.	Price Each
● 604-301-04	Red	2.1 V	20	900	660	96M8676	21.360
● 604-301-23	Red	28 V	20	900	660	96M8677	22.020
● 604-324-04	Green	2.2 V	20	7800	525	96M8678	21.360
● 604-324-23	Green	28 V	20	7800	525	96M8679	22.020
● 604-325-04	Yellow	2.2 V	20	4300	590	96M8680	21.360
● 604-325-23	Yellow	28 V	20	4300	590	96M8681	22.020
● 604-934-04	Blue	2.2 V	20	2300	470	96M8682	21.360
● 604-934-23	Blue	28 V	20	2300	470	96M8683	22.020
● 604-998-04	Cool White	2.2 V	20	4600	...	96M8684	21.360
● 604-998-23	Cool White	28 V	20	4600	...	96M8685	22.020

(147218)

**611 SERIES PROFESSIONAL
LED INDICATORS 6.35mm
DIA MOUNTING****NEW TECHNOLOGY****Features:**

- Black anodised aluminium housing
- Sealed to IP67
- Suitable for high vibration applications
- Internal reverse protection diode fitted as standard in all voltage models

The **611 Series** is a 6.35mm mounting, Professional LED Panel Indicator featuring a high intensity LED element in a range of colors and voltages. A reverse protection diode is fitted on as standard in all voltage models. Termination is achieved by standard solder pins, with the option of flying lead terminations. This particular device is fitted with a low profile, colored diffused lens assembly to provide excellent wide angle viewing. The precision turned housing is manufactured from aluminium with a high quality, black anodised finish, and is supplied complete with full mounting hardware.

Mfg. Part No.	Color	Voltage DC (Vdc)	Current (mA@DC)	Luminous Intensity (mcd) I _v @ 20mA	Wavelength (nm)	Stock No.	Price Each
● 611-301-21	Red	12 V	20	900	660	99H8330	28.790
● 611-301-23	Red	28 V	20	900	660	31M0831	28.790
● 611-324-21	Green	12 V	20	7800	525	99H8333	28.790
● 611-324-23	Green	28 V	20	7800	525	31M0832	28.790
● 611-325-21	Yellow	12 V	20	4300	590	99H8336	28.790
● 611-325-23	Yellow	28 V	20	4300	590	31M0833	28.790
● 611-934-21	Blue	12 V	20	2300	470	99H8339	28.790
● 611-934-23	Blue	28 V	20	2300	470	31M0834	28.790
● 611-998-21	Cool White	12 V	20	4600	...	99H8342	28.790
● 611-998-23	Cool White	28 V	20	4600	...	31M0835	28.790

(147219)

**652 SERIES PROFESSIONAL
LED INDICATORS 12.7mm
DIA MOUNTING****NEW TECHNOLOGY****Features:**

- Each product will operate over a wide voltage input range
- Black anodised aluminium housing
- Sealed to IP67
- 180° viewing angle
- Full internal potting to resist shock and vibration
- True Bi-polar product

The **652 Series** is a 12.7mm mounting, Professional LED Panel Indicator featuring a high intensity LED element in a range of colors. Internal circuitry includes a reverse protection diode as standard and operates over a wide voltage range. Termination is achieved by standard solder/crimp tags. This particular device is fitted with a raised, colored diffused lens assembly to provide excellent wide angle viewing. The precision turned housing is manufactured from aluminium with a high quality, black anodised finish, and is supplied complete with full mounting hardware.

Mfg. Part No.	Color	Voltage DC (Vdc)	Current (mA@DC)	Luminous Intensity (mcd) I _v @ 20mA	Wavelength (nm)	Stock No.	Price Each
● 652-102-63	Red(GaAlAs)	28 V	16	450	660	79M5396	24.270
● 652-102-75	Red(GaAlAs)	110 V	6	450	660	79M5397	24.270
● 652-105-63	Red	28 V	16	100	627	79M5398	24.270

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PANEL MOUNT INDICATORS

652 SERIES PROFESSIONAL LED INDICATORS 12.7mm DIA MOUNTING (CONT.)

Mfg. Part No.	Color	Voltage DC (Vdc)	Current (mA@DC)	Luminous Intensity (mcd) I _v @ 20mA	Wavelength (nm)	Stock No.	Price Each
● 652-105-75	Red	110 V	6	100	627	79M5399	24.270
● 652-111-63	Yellow	28 V	16	50	590	79M5400	24.270
● 652-111-75	Yellow	110 V	6	50	590	79M5401	24.270
● 652-114-63	Green	28 V	16	60	565	79M5402	24.270
● 652-114-75	Green	110 V	6	60	565	79M5403	24.270

(147220)

665 SERIES PROFESSIONAL LED INDICATORS 8.5mm DIA MOUNTING



NEW TECHNOLOGY



Features:

- Hard black anodised aluminium housing
- Short body length is ideal for portable equipment
- Unique PTFE mounting/panel seal
- Unique hexagon bezel to aid mounting to panel
- Sealed to IP68 (10psi) to BS5420
- Suitable for high vibration applications
- Ideal for marine applications

The 665 Series is a 8.5mm mounting, Professional LED Panel Indicator featuring a hexagonal bezel and a self-lubricating PTFE 'Top Hat' style panel seal to aid with mounting. This panel indicator features a high intensity LED element in a range of colors. Internal circuitry is designed for operation at 20mA. Termination is achieved by 150mm color coded flying leads which are in accordance with Def Stan 61/2 part 18 chemical and flame retardant. This particular device is fitted with a domed, shatterproof polycarbonate colored diffused lens assembly to provide excellent wide angle viewing. The precision turned housing is manufactured from aluminium with a high quality, hard anodised black finish which is in accordance with Def Stan 03-26 (50 microns), and is supplied complete with full mounting hardware.

Mfg. Part No.	Color	Voltage DC (Vdc)	Current (mA@DC)	Luminous Intensity (mcd) I _v @ 20mA	Wavelength (nm)	Stock No.	Price Each
● 665-501-04-50	Red	2 V	20	11000	643	52M7723	36.790
● 665-521-04-50	Yellow	2.1 V	20	16000	591	52M7724	36.790
● 665-532-04-50	Green	3.4 V	20	23000	527	52M7725	36.790
● 665-930-04-50	Blue	3.4 V	20	7000	470	52M7726	36.790
● 665-997-04-50	Cool White	3.4 V	20	14000	...	52M7727	36.790

(147221)

698 SERIES PROFESSIONAL LED INDICATORS 8.1mm DIA MOUNTING

NEW TECHNOLOGY



Features:

- Each product will operate over a wide voltage input range
- Black anodised aluminium housing
- Full internal potting to resist shock and vibration
- Sealed to IP67
- True Bi-polar product for low voltage DC applications



The 698 Series is a 8.1mm mounting, Professional LED Panel Indicator featuring a high intensity LED element in a range of colors and voltages. This is a truly bi-polar product and operates over a wide voltage range. Termination is achieved by standard solder/crimp tags. This particular device is fitted with a low profile, smoked lens assembly to provide excellent wide angle viewing and on/off contrast ratio. The precision turned housing is manufactured from aluminium with a high quality, black anodised finish, and is supplied complete with full mounting hardware.

Mfg. Part No.	Color	Voltage DC (Vdc)	Current (mA@DC)	Luminous Intensity (mcd) I _v @ 20mA	Wavelength (nm)	Stock No.	Price Each
● 698-501-63	Red	28 V	16	11000	643	79M5404	21.810
● 698-501-75	Red	110 V	6	11000	643	79M5405	21.810
● 698-521-63	Yellow	28 V	16	16000	591	79M5406	21.810
● 698-521-75	Yellow	110 V	6	16000	591	79M5407	21.810
● 698-532-63	Green	28 V	16	23000	527	79M5408	21.810
● 698-532-75	Green	110 V	6	23000	527	79M5409	21.810
● 698-930-63	Blue	28 V	16	7000	470	79M5410	21.810
● 698-930-75	Blue	110 V	6	7000	470	79M5411	21.810
● 698-997-63	Cool White	28 V	16	14000	...	79M5412	21.810
● 698-997-75	Cool White	110 V	6	14000	...	79M5413	21.810

(147222)

699 SERIES PROFESSIONAL LED INDICATORS 12.7mm DIA MOUNTING

NEW TECHNOLOGY



Features:

- Each product will operate over a wide voltage input range
- Black anodised aluminium housing
- Full internal potting to resist shock and vibration
- Sealed to IP67
- True Bi-polar product for low voltage DC applications



The 699 Series is a 12.7mm mounting, Professional LED Panel Indicator featuring a high intensity LED element in a range of colors and voltages. This is a truly bi-polar product and operates over a wide voltage range. Termination is achieved by standard solder/crimp tags. This particular device is fitted with a low profile, colored diffused lens assembly to provide excellent wide angle viewing and on/off contrast ratio. The precision turned housing is manufactured from aluminium with a high quality, black anodised finish, and is supplied complete with full mounting hardware.

Mfg. Part No.	Color	Voltage DC (Vdc)	Current (mA@DC)	Luminous Intensity (mcd) I _v @ 20mA	Wavelength (nm)	Stock No.	Price Each
● 699-501-63	Red	28 V	16	11000	643	79M5414	27.240
● 699-501-75	Red	110 V	6	11000	643	79M5415	27.240
● 699-521-63	Yellow	28 V	16	16000	591	79M5416	27.240
● 699-521-75	Yellow	110 V	6	16000	591	79M5417	27.240
● 699-532-63	Green	28 V	16	23000	527	79M5418	27.240
● 699-532-75	Green	110 V	6	23000	527	79M5419	27.240
● 699-930-63	Blue	28 V	16	7000	470	79M5420	27.240
● 699-930-75	Blue	110 V	6	7000	470	79M5421	27.240
● 699-997-63	Cool White	28 V	16	14000	...	79M5422	27.240
● 699-997-75	Cool White	110 V	6	14000	...	79M5423	27.240

(147223)

SCREW THREAD POWER LED



Features:

- Solder-Free mechanical attachment for easy installation and replacement
- Annular contact arrangement eliminates need for radial alignment
- Excellent thermal coupling to lighting system
- Large LED chip allows high drive current
- Outstanding light output
- Wide viewing angle
- UV resistant cover lens
- Operating Temperature Range: -40°C to +85°C

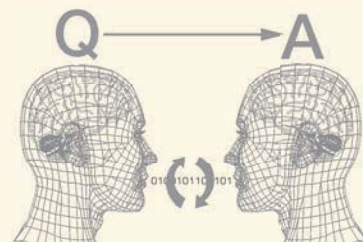


Mfg. Part No.	Color	Wavelength (nm)	Luminous Flux (lm)	Forward Voltage (V) @ 20 mA	View Angle (°)	Stock No.	Price Each
9900-1201-12	Red	625	40	230	130	89M5415	2.720
9900-1201-13	Red	625	95	230	130	89M5416	4.360
9900-1201-22	Amber	590	40	230	130	89M5417	2.720
9900-1201-23	Amber	590	95	230	130	89M5418	4.310
9900-1201-37	White	5500	52	3.5	110	89M5419	5.140
9900-1201-47	Blue	470	12	3.5	120	89M5421	4.480
9900-1201-77	Green	525	50	3.5	120	89M5422	4.530

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