

FLOURESCENT DISPLAYS • TOUCH SCREEN

V.I.P.™ MINI-TERMINALS



V.I.P.™ mini-terminals are interactive display systems which integrate a vacuum fluorescent display with a metal dome keypad. They operate from a 5 VDC power supply and have an RS-232-C interface to the host system. The module is easily sealed to user's front panel. Switch legend strips slide out, and legends are user-defined. These interactive terminals are suitable for a variety of man-machine applications such as small machine tools, process controls, and test equipment. RoHS compliant.

Mfg. Part No.	H x W x D	Description	Stock No.	Price Each	
				1-2	
● 03910-A3-A01-07	6.07 x 11.25 x 1.65" (154.18 x 285.75 x 41.91mm)	2 x 40 Display, Rear Mount 2 x 11 Keypad, RA Connectors, Green Filter, Blank Slide-In Switch Legends, Data Package	<b>28M3257</b>		646.780
● 03904-03-A01-07	6.00 x 11.40 x 2.50" (152.4 x 289.56 x 63.5mm)	2 x 40 Display, 2 x 11 Keypad, Front Mount Black Die-Cast Bezel, Rear Cover, Straight-Back Connectors, Green Filter, Blank Slide-In Legend Strips, Enhanced Software and Data Package	<b>28M4465</b>		732.920
● 03904-A4-A09-07	6.00 x 11.40 x 1.73" (152.4 x 289.56 x 43.9mm)	4 x 20 Display, Keypad 2 x 4" and 5 x 5", Front Mount, Green Filter, Front Mount, Up to 127 Canned Messages	<b>33M1196</b>		690.580
● 03903-A3-A01-07	6.07 x 11.25 x 1.85" (154.18 x 285.75 x 47mm)	2 X 40 Display, 2 x 11 Keypad, Rear Mount, Straight Connectors, Green Filter	<b>33M1189</b>		712.480

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LED DISPLAY SOCKETS



These sockets feature wire-wrap terminals for decoded or nondecoded inputs. Accept 0.3" or 0.6" pin row spacing DIP-type LED displays. Available in widths to accommodate up to 8 LED displays. 0.3" pin row spacing. For use with DMH22463 and DMH23441 series bezel/filters, ordered separately go online or call.

Mfg. Part No.	Description	Width	Stock No.	Price Each	
				1-9	
● DMH22464-02	Holds 2 LED Displays	1.74"	<b>69F139</b>		30.390
● DMH22464-03	Holds 3 LED Displays	2.24"	<b>69F140</b>		39.860
● DMH22464-04	Holds 4 LED Displays	2.74"	<b>69F141</b>		75.280
● DMH22464-06	Holds 6 LED Displays	3.74"	<b>69F143</b>		87.020

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FLIPT™ CENTURY™ SERIES VACUUM FLUORESCENT DISPLAYS



Just Added



3602-100-05420



03805-06-0100

Key Features:

- RoHS Compliant
- 100% Surface Mount Technology
- Interface to Intel or Motorola Host Processors
- Parallel 8-Bit or Serial EIA-232 Data to 19.2Kb
- Low 5VDC Power
- Standard Temperature Range: -20°C to +70°C
- Extended Range Available: -40°C to +85°C
- Hardware and Software Self-Test Modes

Software Control Features:

- Selectable Character Sets: ASCII, European, Katakana, Cyrillic, and Hebrew (Dot Matrix Only)
- 10 User-Defined, Downloadable Characters
- Vertical and Horizontal Scroll Modes
- 8 Software- and Hardware-Controlled Dimming Levels
- Variable Blink Fields and Rates

5X7 DOT MATRIX CHARACTER FORMAT

Mfg. Part No.	Display Format	Char. Height	Package Size			Max. Current	Stock No.	Price Each	
			L	W	D			1-2	
● 03603-100-05420	4 x 20	5mm	5.00"	2.78"	0.92"	890mA	<b>33M1152</b>		213.160
● 03603-105-05220	2 x 20	5mm	5.00"	2.25"	0.88"	405mA	<b>28M9813</b>		125.560
● 03603-122-09220	2 x 20	9mm	7.75"	2.58"	1.00"	675mA	<b>31M7966</b>		203.480
● 03603-124-09420	4 x 20	9mm	7.75"	3.40"	1.00"	1300mA	<b>33M1153</b>		376.680

FLIPT™ NO-FRILLS™ AND NINETY SERIES™ VACUUM FLUORESCENT DISPLAY MODULES

▶ CONTINUED ▶

FLIPT™ CENTURY™ SERIES VACUUM FLUORESCENT DISPLAYS (CONT.)

FLIPT™ No-Frills™ (mfg. part no. 3601-8x-xxxx) modules feature 5x7 dot matrix characters, an on-board microprocessor, and operation from a single 5 VDC power supply. UL recognized. Ninety Series™ (mfg. part no. 3601-9x-xxx) modules are manufactured using SMT and have a 14-pin connector with 0.1" (2.54mm) centers. They feature software dimming, accented European characters, and can display several user-defined downloadable characters. Very compact. UL recognized. Data converters sold separately; go online or call.

Mfg. Part No.	Line x Character	Character Height	Display Size (H x W)	Stock No.	Price Each	
					1-2	
● 03601-85-040R	2 x 20	0.20" (5.05)	3.10 x 5.0"	<b>33M1148</b>		153.300
● 03601-86-080R	2 x 40	0.20" (4.50)	2.50 x 7.85"	<b>33M1149</b>		280.320
● 03601-90-080R	4 x 20	0.20" (5.05)	2.40 x 5.00"	<b>32M7382</b>		268.920
● 03601-91A-40R	4 x 20	0.20" (5.05)	1.73 x 6.93"	<b>33M1150</b>		239.440
● 03601-92-020R	1 x 20	0.20" (5.05)	1.50 x 5.90"	<b>30M9618</b>		134.320
● 03601-95B-40	2 x 20	0.20" (5.05)	2.25 x 5.00"	<b>07C9176</b>		135.780
● 03601-96-080R	2 x 40	0.18" (4.6)	2.03 x 7.85"	<b>33M1151</b>		268.640

FLIPT™ 5x7 DOT MATRIX VACUUM FLUORESCENT ASCII MODULES

FLIPT™ vacuum fluorescent display modules are microprocessor controlled. Data interfacing is via an 8-bit bidirectional TTL-ASCII data bus or serial input using 1200 baud jumper-selectable TTL (or RS-232-C for selected models) serial data formatted as an 11-bit word. By use of simple commands or ASCII control codes, data can be selectively written to or read from any character location, alternative European character sets can be selected, or the status of the data latch can be determined. Only a 5VDC power supply is required, and the display's bright blue-green light is easily filtered to colors varying from yellow to green to blue (even red, in low ambient light applications). Display life is typically 80-100,000 hours to half-brightness. Operating temperature: 0°C to +55°C. UL recognized.

Mfg. Part No.	Line x Char.	Char. Height	Display Size (H x W)	Description	Stock No.	Price Each	
						1-2	
● 03601-30-040R	2 x 20	0.44" (11.3)	2.75 x 10.80" (69.9 x 274.30)	Large Characters; Serial Only	<b>28M9639</b>		515.380
● 03601-40-040R	2 x 20	0.44" (11.3)	2.75 x 10.80" (69.9 x 274.30)	Large Characters; Parallel Only	<b>33M1146</b>		550.800
● 03601-34-080R	4 x 20	0.44" (11.3)	4.75 x 10.00" (120.65 x 254.00)	Large Characters; Serial Only	<b>33M1145</b>		887.680
<b>03601-26-240R</b>	6 x 40	0.20" (5.1)	4.17 x 10.50" (105.92 x 266.70)	Small Package.; Full Features; Serial and Parallel I/O	<b>39P8070</b>		1239.300

FLIPT™ SERIAL DATA CONVERTERS

31785 series serial data converter modules will convert EIA 32-C or 20mA current loop data to a parallel output suitable for many standard FLIPT™ display modules.

Mfg. Part No.	Description	Stock No.	Price Each	
			1-9	
31785-02	NF/SDCM™ Serial Data Converter Module w/RS-232-C Input for Types 3601-8x-xxx	<b>89F2030</b>		231.910
31785-22	NF/SDCM™ Serial Data Converter Module w/RS-232-C Input for Types 3601-9x-xxx	<b>51F3690</b>		238.000

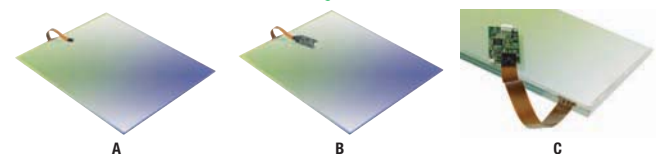
DAYSTAR NOVA™ LIQUID CRYSTAL DISPLAY (LCD) MODULES

- Super Bi-refracting Effect (SBE) liquid crystal cell
- Four luminance options: EL, LED, fiber optic, reflective only (no backlight)
- Low 5Vdc power
- Wide temperature range
- Built-in temperature compensation

Mfg. Part No.	Line x Char.	Char. Height	Display Size (H x W)	Luminance Option	Stock No.	Price Each	
						1-9	
<b>03805-06-0100</b>	4 x 20	12.1mm	3.32 x 7.5"	Reflective Only	<b>33M1175</b>		385.560
<b>03805-21-0100</b>	4 x 40	10.4mm	2.74 x 11.35"	Reflective Only	<b>92B7890</b>		601.020
<b>03858-06-0105</b>	4 x 20	12.1mm	3.32 x 7.5"	EL	<b>89K0204</b>		302.940
<b>03858-21-0105</b>	4 x 40	10.4mm	2.74 x 11.35"	EL	<b>33M1176</b>		672.300
<b>03865-06-0111</b>	4 x 20	12.1mm	3.32 x 7.5"	LED	<b>33M1178</b>		442.260
<b>03875-06-0114</b>	4 x 20	12.1mm	3.32 x 7.5"	Fiber Optic	<b>33M1183</b>		552.420
<b>03875-21-0114</b>	4 x 40	10.4mm	2.74 x 11.35"	Fiber Optic	<b>33M1184</b>		811.620

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LCD TOUCH SCREEN SENSORS



Features:

- Excellent light transmission of 91.5% (±1.5%) provides vibrant optical characteristics with optimal anti-glare properties
- Operating Temperature: -15° C to 70° C
- Resilient top coat provides smooth, easy glide surface while offering durable scratch resistance
- The accuracy, durability, and fast touch response expected from a MicroTouch™ ClearTek™ II product.
- Performance unaffected by everyday contaminants in the environment

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TOUCH SCREEN • LCD DISPLAYS

LCD TOUCH SCREEN SENSORS (CONT.)

Mfg. Part No.	Figure	Size (inches)	Connection	Stock No.	Price Each
					1-9
● 17-8091-205	A	6.71	Locking Amp	89M5699	93.960
● 17-8021-205	A	10.84	Locking Amp	89M5696	98.820
● 17-8581-205	A	12.38	Locking Amp	89M5706	119.880
● 17-8031-205	A	15.68	Locking Amp	89M5697	148.750
● 17-8421-205	A	17.54	Locking Amp	89M5700	168.480
● 17-8511-205	A	19.74	Locking Amp	89M5704	174.960
● 17-8441-205	A	20.65	Locking Amp	89M5702	189.540
● 17-8951-205	A	31.81	Locking Amp	89M5708	879.660
● 17-8031-225	B	15.68	USB	89M5698	234.900
● 17-8421-225	B	17.54	USB	89M5701	251.100
● 17-9241-225	B	17.8	USB	89M5710	251.100
● 17-9251-225	B	19.34	USB	89M5711	260.820
● 17-8511-225	B	19.74	USB	89M5705	260.820
● 17-8441-225	B	20.65	USB	89M5703	268.920
● 17-9261-225	B	20.65	USB	89M5712	268.920
● 17-9311-225	B	22.37	USB	89M5713	268.920
● 17-8931-225	B	26.28	USB	89M5707	497.340
● 17-8951-225	B	31.81	USB	89M5709	954.180

Features:

- Resolution: 1024 x 1024, but capable of 16K x 16K when used with EX II.
- Light Transmission: 86.5% (± 1.5%)
- Operating Temperature: -15° C to 70° C
- Glass Thickness: 7.57mm (± 0.58mm)

All MICROTOUCH™ TOUCHTOUCH II Touch Sensors below include a EX II-7760UC Controller. Order Interface Cable #7312256 on this page.

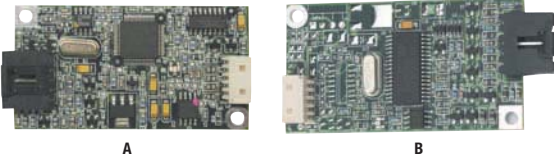
MICROTOUCH™ TOUCHTOUCH II TOUCH SENSORS

Mfg. Part No.	Figure	Size (inches)	Stock No.	Price Each
				1-9
87-4061-211	C	15.9	89M5720	419.580
87-5961-211	C	17.78	89M5721	458.460
87-6001-211	C	19.83	89M5722	495.720

VHB FOAM ADHESIVE

Mfg. Part No.	Size	Stock No.	Price Each
			1-9
● 24736	Roll 0.37" x 0.062" Thick	89M5714	58.320

MICROTOUCH™ EX II TOUCH CONTROLLERS



Features:

- Nominal Uncased Dimensions: 33.0 x 65.0 x 11.4 mm
- Operating Temperature: -40°C to +70°C
- Fast and Accurate Touch Response
- 5 Year Warranty

Mfg. Part No.	Figure	Protocol	Additional Requirements	Stock No.	Price Each
					1-9
EXII-7760UC	A	USB Rev 1.1	7312256 96" (2.4 m) Cable 7315050 23" (0.58m) Cable	12N3283	92.370
● EXII-7720SC	A	RS232	7310101 RS-232, 96" (2.4 m) Cable, 7310107 RS-232, 26" (0.7 m) Cable.	89M5688	92.370

Features:

- Fast and accurate touch response.
- Provides USB, HID, and WHQL compliance.
- Storage Temperature: -20°C to +75°C
- Operating Temperature: 0°C to +5°C

MICROTOUCH™ SC SERIES TOUCH CONTROLLERS

Mfg. Part No.	Figure	Sensor Type	Interface Type	Stock No.	Price Each
					1-9
● SC401U	B	4-Wire	USB	89M5690	40.600
● SC501U	B	5-Wire	USB	89M5692	40.600
● SC801U	B	8-Wire	USB	89M5694	40.600
● SC402S	B	4-Wire	Serial	89M5691	40.600
● SC502S	B	5-Wire	Serial	89M5693	40.600
● SC802S	B	8-Wire	Serial	89M5695	40.600

CHIPSET

SCX-ASIC	B	ASIC Chipset	USB/Serial	89M5689	20.300
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MICROTOUCH™ CABLES

Mfg. Part No.	Description	No. of Pins	Stock No.	Price Each
				1-9
7312256	96" USB - Pearl Cable & Plug	5	89M5716	16.240
● 7319420	96" USB - Pearl Cable & Black Plug	5	89M5718	18.270

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MICROTOUCH™ EX II TOUCH CONTROLLERS (CONT.)

Mfg. Part No.	Description	No. of Pins	Stock No.	Price Each
				1-9
● 7310101	96" Serial - Pearl Cable & Plug	7	89M5715	16.240
● 7319630	96" Serial - Pearl Cable & Teal Plug, Plug-n-Play Compatibility	8	89M5719	18.270

LCD PANEL/SEGMENT DISPLAYS



Operating temperature range: -30°C to +85°C. Backlight viewing mode designation: DU suffix for reflective, EU suffix for transfective.

Mfg. Part No.*	Digit Height (in.)	Fig.	Package Dimensions (L x W)	Stock No.	Price Each
					1-9
● FE0201W-DU	0.5"	1	2.0 x 1.2"	44F4116	6.030
● FE0201W-EU	0.5"	1	2.0 x 1.2"	90B3596	6.890
● FE0203W-DU	0.5"	2	2.0 x 1.2"	93K7551	6.890
● FE0203W-EU	0.5"	2	2.0 x 1.2"	88K1930	8.040
● FE0202W-DU	0.5"	3	2.0 x 1.2"	88K1087	6.890
● FE0202W-EU	0.5"	3	2.0 x 1.2"	94F003	9.470
● FE0502W-DU	0.7"	3	2.75 x 1.5"	44F4122	21.530
● FE0206W-DU	0.5"	4	2.0 x 1.2"	44F4119	7.610
● FE0206W-EU	0.5"	4	2.0 x 1.2"	15B5656	9.470
● FE0401W-DU	0.5"	5	2.75 x 1.2"	44F4121	16.940
● FE0401W-EU	0.5"	5	2.75 x 1.2"	83H6250	16.940
● FE0601W-DU	0.5"	5	3.7 x 1.5"	44F4123	33.150

\* DU suffix indicates reflective mode; EU suffix which indicates transfective option for backlighting is also available; go online or call. Example: to receive a 0.5" high, 4-digit, wide temperature, high humidity, reflective panel display, order FE0202W-DU.

SUPER TWIST INTELLIGENT GRAPHICS LIQUID CRYSTAL DISPLAYS



- Blacklight Electroluminescent (-E0 Suffix), Transfective Reflector (-30 Suffix) and CCFL (-BST Suffix)
- T6963 or SED1330 Compatible

Mfg. Part No.	Pixel Count W x H	Dimensions			Stock No.	Price Each
		Pixel Size W x H (mm)	Viewing Area W x H (mm)	Overall W x H x D (mm)		1-5
● AND1021ST	120 x 64	.56 x .69	62.5 x 43.5	85 x 70 x 20	89F3440	100.040
AND1021ST-E0	120 x 64	.56 x .60	62.5 x 43.5	85 x 70 x 20	89F3441	124.440
AND1261WGST-LED	128 x 64	.43 x .43	60.0 x 33.0	75 x 53 x 8.9	83F8480	102.480
AND1264GST-LED	128 x 64	.52 x .52	72.0 x 40.0	87 x 70 x 12.7	38M8775	100.040
AND1013ST-30	160 x 128	.60 x .60	101 x 82	129 x 104.5 x 14	92F2656	156.160
AND1013ST-E0	160 x 128	.60 x .60	101 x 82	129 x 104.5 x 14	89F3438	301.490
● AND711AST-30	240 x 64	.53 x .53	132 x 39	180 x 65 x 12	89F3433	122.000
● AND711AST-E0	240 x 64	.53 x .53	132 x 39	180 x 65 x 12	90F7062	122.000
● AND1781BST	240 x 64	.50 x .50	127.2 x 33.9	180 x 70 x 14	95F4087	185.440
AND1781BST2	240 x 64	.53 x .53	127.16 x 33.9	180 x 65 x 9.7	12M7120	274.580
● AND1781MST	240 x 64	.50 x .50	127.2 x 33.9	180 x 70 x 14	66F9782	185.440
● AND1741MST	240 x 128	.50 x .50	126 x 70	170 x 106 x 14	50F3819	236.680
● AND1742MST	240 x 128	.51 x .51	134 x 76	180 x 110 x 5.1	83F8481	329.400
AND1742MST2	240 x 128	.51 x .51	134 x 76	180 x 110 x 15.1	38M8776	219.600
AND1743FST-T	240 x 128	.50 x .50	132 x 76	170 x 102 x 14	03M2908	195.200
● AND3222MST2	320 x 240	.33 x .33	120.1 x 92.1	148 x 120.2 x 20.5	58K4174	224.480

INTELLIGENT ALPHANUMERIC STN DISPLAYS



All mfg. part nos. with a "-GST" suffix are gray STN reflective. All mfg. part nos. with a "-LED" suffix are transmissive with a yellow/green LED backlight. All mfg. part nos. use the HD44780 microcontroller.

Mfg. Part No.	Line x Characters	Character Size (mm)	Dimensions		Stock No.	Price Each
			Viewing (mm)	Overall (mm)		1-99
AND081GST	1 x 8	4.45 x 8.35	48.0 x 13.0	60 x 36 x 10	38M8765	9.610
AND081GST-LED	1 x 8	4.45 x 8.35	48.0 x 13.0	60 x 36 x 13	86H2653	12.180
AND082GST	2 x 8	2.96 x 5.56	38.0 x 16.0	58 x 32 x 8.4	38M8766	8.750
AND082GST-LED	2 x 8	2.96 x 5.56	38.0 x 16.0	58 x 32 x 12.8	38M8767	10.800

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LCD DISPLAYS • LED DISPLAYS

INTELLIGENT ALPHANUMERIC STN DISPLAYS (CONT.)

Mfg. Part No.	Line x Char-acters	Character Size (mm)	Dimensions		Stock No.	Price Each
			Viewing (mm)	Overall (mm)		
● AND671GST	1 x 16	3.07 x 6.56	64.5 x 13.8	80 x 36 x 11.3	88K1874	15.730
● AND671GST-LED	1 x 16	3.07 x 6.56	64.5 x 13.8	80 x 36 x 16	15B5649	16.470
● AND471GST	2 x 16	4.84 x 9.66	99.0 x 24.0	122 x 44 x 11.3	15B5641	31.760
● AND471GST-LED	2 x 16	4.84 x 9.66	99.0 x 24.0	122 x 44 x 15.8	15B5642	33.360
● AND481GST	2 x 16	2.78 x 4.89	62.0 x 16.0	85 x 30 x 10.1	91F4658	18.900
● AND481GST-LED	2 x 16	2.78 x 4.89	62.0 x 16.0	85 x 30 x 10.1	15B5643	25.180
● AND491GST	2 x 16	2.95 x 4.35	64.5 x 13.8	80 x 36 x 11.3	88K1872	19.170
● AND491GST-LED	2 x 16	2.95 x 4.35	64.5 x 13.8	80 x 36 x 11.3	15B5644	25.180
● AND731GST	4 x 16	2.95 x 4.15	61.8 x 25.2	87 x 60 x 11.6	91F4659	51.510
● AND731GST-LED	4 x 16	2.95 x 4.15	61.8 x 25.2	87 x 60 x 12.7	15B5653	66.390
● AND501GST	2 x 20	3.20 x 5.55	83.0 x 18.6	116 x 37 x 11.3	88K1873	31.490
● AND501GST-LED	2 x 20	3.2 x 5.55	83 x 18.6	116 x 37 x 15.8	15B5646	24.010
● AND721GST	4 x 20	2.95 x 4.75	76.0 x 25.2	98 x 60 x 12	88K1875	45.780
● AND721GST-LED	4 x 20	2.95 x 4.75	76.0 x 25.2	98 x 60 x 16	15B5652	57.230
● AND771GST	2 x 24	3.20 x 5.50	94.5 x 17.8	118 x 36 x 11.3	91F4662	38.360
● AND771GST-LED	2 x 24	3.20 x 5.50	94.5 x 17.8	118 x 36 x 15.8	15B5654	55.530
● AND591GST	2 x 40	3.20 x 5.55	154.4 x 15.3	182 x 33.5 x 8.8	91F4663	50.360
● AND591GST-LED	2 x 40	3.20 x 5.55	154.4 x 15.3	182 x 33.5 x 12.7	15B5647	68.670
● AND791GST	4 x 40	2.78 x 4.89	147 x 29.5	190 x 54 x 10.1	04M5441	91.560
● AND791GST-LED	4 x 40	2.78 x 4.89	147 x 29.5	190 x 54 x 10.1	15B5655	105.460

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LCD DISPLAY MODULES



Applications

- Audio Equipment (Home/Office)
- Consumer Items (Watches, Calculators, Radio, Toys)
- Automotive Dash Panels
- Medical Equipment
- Security Electronics
- Military Control Panels
- Testing Equipment

Features

- Reliable User-interface Display
- Low Power Consumption
- Very Long Operational Life
- Low Cost Power and Signal Interference
- Customization and Flexibility
- Affordable Tooling Costs

LCD CHARACTER MODULES

Mfg. Part No.	Description	Line x Char.	Char. Size W x H (mm)	Stock No.	Price Each
					1-4
● LCM-S01601DSF	STN, Transflective	1 x 16	3.07x6.56	19J7609	12.060
● LCM-S01601DSR	STN, Reflective	1 x 16	3.07x6.56	19J7616	9.130
● LCM-S01601DTR	TN, Reflective	1 x 16	3.07x6.56	19J7625	7.170
● LCM-S01602DSF/A	STN, Transflective	2 x 16	2.96x5.56	14M5872	12.760
● LCM-S01602DSR/C	STN, Reflective	2 x 16	2.96x5.56	18J1317	9.880
● LCM-S01602DSF/B	STN, Transflective	2 x 16	2.96x5.56	19J7630	13.350
● LCM-S01602DSF/C	STN, Transflective	2 x 16	2.96x5.56	19J7632	12.760
● LCM-S01602DSR/A	STN, Reflective	2 x 16	2.96x5.56	19J7646	9.880
● LCM-S01602DSR/B	STN, Reflective	2 x 16	2.96x5.56	19J7648	10.870
● LCM-S01602DSR/D	STN, Reflective	2 x 16	4.84x9.63	19J7649	14.810
● LCM-S01602DTR/A	TN, Reflective	2 x 16	2.96x5.56	19J7660	8.870
● LCM-S01602DTR/C	TN, Reflective	2 x 16	2.96x5.56	19J7663	8.870
● LCM-S01604DSR	STN, Reflective	4 x 16	2.95x4.65	19J7671	21.030
● LCM-S02002DSF	STN, Transflective	2 x 20	3.20x5.55	19J7674	19.660
● LCM-S02002DSR	STN, Reflective	2 x 20	3.20x5.55	19J7676	15.110
● LCM-S02004DSF	STN, Transflective	4 x 20	2.95x4.75	19J7680	30.090
● LCM-S02004DSR	STN, Reflective	4 x 20	2.95x4.75	19J7686	22.900
● LCM-S02402DSF	STN, Transflective	2 x 24	3.2x5.55	19J7691	20.330
● LCM-S04002DSF	STN, Transflective	2 x 40	3.20x5.55	19J7703	35.470
● LCM-S04004DSF	STN, Transflective	4 x 40	2.78x4.89	19J7709	64.450

LCD PANELS

Mfg. Part No.	Description	Digit	Char. Size W x H (mm)	Stock No.	Price Each
					1-4
● LCD-S2X1C50TR	TN, Reflective	2.5	12.7 (0.50)	19J7527	1.650
● LCD-S3X1C50TR/A	TN, Reflective	3.5	12.7 (0.50)	19J7530	3.610
● LCD-S301C31TR	TN, Reflective	3	7.87 (0.31)	19J7539	1.550
● LCD-S4X1C35TR	TN, Reflective	4.5	8.89 (0.35)	19J7541	2.910
● LCD-S401C39TR	TN, Reflective	4	9.92 (0.39)	19J7546	2.830
● LCD-S401C52TR	TN, Reflective	4	13.2 (0.52)	19J7548	3.550
● LCD-S401C71TR	TN, Reflective	4	18.0 (0.71)	19J7551	4.340
● LCD-S601C71TR	TN, Reflective	6	18.0 (0.71)	19J7564	6.940

(94570)

7-SEGMENT LED DISPLAYS



Fig. 1

Only .56" (14.20mm) and .80" (20.32mm) have active decimal points.

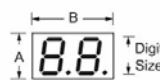


Fig. 2

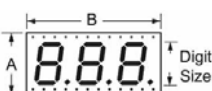


Fig. 3

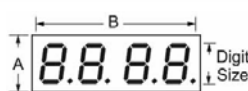


Fig. 4



Fig. 5

Multiplexed. Only .56" (14.20mm) has decimal points.

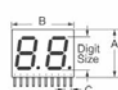


Fig. 6

Size	No. of Pins	Dim. C In. (mm)
.56"	10	.10 (2.49)
.30"	9	.05 (1.27)

COMMON ANODE — FIG. 1

Mfg. Part No.	Emitted Color	I <sub>v</sub> (mcd)	Dim. AxB (mm)	Digit Size (in.)	No. of Digits	Stock No.	Price Each
● LDS-A352RI	Green	2500	12.70 x 7.60	0.3	1	09J9112	1.960
● LDS-A306RI	Super Red	6000	19.10 x 10.18	0.3	1	09J9471	3.070
● LDS-A356RI	Super Red	6000	12.70 x 7.60	0.3	1	09J9113	2.890
● LDS-A324RI	Red	3500	14.00 x 7.50	0.36	1	09J9473	1.970
● LDS-A414RI	Red	3900	19.00 x 12.60	0.43	1	09J9475	1.890
● LDS-A413RI	Yellow	3900	19.00 x 12.60	0.43	1	09J9474	1.720
● LDS-A504RI	Red	5000	19.00 x 12.70	0.5	1	09J9476	2.090
● LDS-A5642RI	Green	3900	17.10 x 12.60	0.56	1	09J9115	1.720
● LDS-A514RI	Red	3900	19.00 x 12.60	0.56	1	28M9252	1.900
● LDS-A516RI	Red	12000	19.00 x 12.60	0.56	1	09J9478	3.870
● LDS-A513RI	Yellow	3900	19.00 x 12.60	0.56	1	09J9477	1.540
● LDS-AA14RI	Red	9800	34.00 x 24.00	1	1	09J9470	4.420

COMMON CATHODE — FIG. 1

● LDS-C302RI	Green	3500	19.10 x 10.18	0.3	1	09J9480	1.540
● LDS-C304RI	Red	3500	19.10 x 10.18	0.3	1	09J9116	1.720
● LDS-C354RI	Red	2500	12.70 x 7.60	0.3	1	09J9117	2.280
● LDS-C356RI	Super Red	6000	12.70 x 7.60	0.3	1	09J9118	2.690
● LDS-C322RI	Green	2500	14.00 x 7.50	0.36	1	09J9481	1.840
● LDS-C416RI	Super Red	9800	19.00 x 12.60	0.43	1	09J9484	2.760
● LDS-C414RI	Red	5600	19.00 x 12.60	0.43	1	09J9483	1.900
● LDS-C412RI	Green	3500	19.00 x 12.60	0.43	1	09J9482	1.540
● LDS-C504RI	Red	3900	19.00 x 12.70	0.5	1	09J9485	2.090
● LDS-C516RI	Super Red	13300	19.00 x 12.60	0.56	1	28M9254	3.870
● LDS-C512RI	Green	3500	19.00 x 12.60	0.56	1	09J9486	1.780
● LDS-C816RI	Super Red	13300	27.70 x 20.00	0.8	1	09J9488	2.950
● LDS-CD14RI	Red	9000	70.00 x 48.00	2.25	1	09J9479	10.300

COMMON ANODE — FIG. 2

● LDD-A403NI	Yellow	3900	16.00 x 20.10	0.40	2	04M4561	2.820
● LDD-A404NI	Red	3900	16.00 x 20.10	0.40	2	09J9460	3.070
● LDD-A512RI	Green	3900	19.00 x 25.00	0.56	2	09J9461	2.690
● LDD-A514RI	Red	3900	19.00 x 25.00	0.56	2	09J9109	2.690
● LDD-A516RI	Super Red	13000	19.00 x 25.00	0.56	2	09J9462	3.260

COMMON CATHODE — FIG. 2

● LDD-C402NI	Green	3900	16.00 x 20.10	0.40	2	04M4562	2.760
● LDD-C514RI	Red	3900	19.00 x 25.00	0.56	2	09J9110	2.820
● LDD-C516RI	Super Red	13300	19.00 x 25.00	0.56	2	09J9464	4.380
● LDD-C814RI	Red	3900	25.80 x 35.80	0.8	2	09J9465	4.010
● LDD-E304NI	Red	2000	15.00 x 15.50	0.3	2	09J9467	2.820

COMMON ANODE — FIG. 3

● LDT-A514RI	Red	3900	19.00 x 37.80	0.56	3	09J9490	4.860
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COMMON CATHODE — FIG. 4

● LDQ-N516RI	Super Red	13300	19.00 x 50.30	0.56	4	09J9469	11.660
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COMMON ANODE — FIG. 5

● LDS-M512RI-RA	Green	2250	19.00 x 12.60	0.56	1	09J9489	2.520
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COMMON ANODE — FIG. 6

● LDD-E302NI-RA	Green	2500	15.00 x 15.50	0.3	2	09J9466	4.130
● LDD-F304NI-RA	Red	2000	15.00 x 15.50	0.3	2	09J9468	4.130

COMMON CATHODE — (NOT SHOWN)

● LDP-N566RI	Super Red	6000	19.05 x 66.67	0.56	5	09J9111	7.570
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(80504)

LED DISPLAYS

SINGLE AND DUAL 7-SEGMENT DISPLAYS

Just Added



- Features:
- Low current operation
  - Right Hand Decimal

- Excellent characters appearance
- Available in CA and CC

Mfg. Part No.	Color	Fig.	Intensity Per Seg (mcd)	Digit Height (mm)	Common Pin	Stock No.	Price Each	
							1-9	
● HDSM-281C	Red	A	7.5	7	Common Anode	78M1220	1.680	
● HDSM-283C	Red	A	7.5	7	Common Cathode	78M1224	1.680	
● HDSM-291C	Red	B	7.5	7	Common Anode	78M1228	3.360	
● HDSM-293C	Red	B	7.5	7	Common Cathode	78M1232	3.360	
● HDSM-431C	Red	A	14.3	10	Common Anode	58M6960	1.680	
● HDSM-433C	Red	A	14.3	10	Common Cathode	58M6964	1.680	
● HDSM-441C	Red	B	14.3	10	Common Anode	78M1236	3.360	
● HDSM-443C	Red	B	14.3	10	Common Cathode	78M1240	3.360	
● HDSM-531C	Red	A	16	14.22	Common Anode	58M6968	1.780	
● HDSM-533C	Red	A	16	14.22	Common Cathode	58M6972	1.780	
● HDSM-541C	Red	B	16	14.22	Common Anode	78M1244	3.620	
● HDSM-543C	Red	B	16	14.22	Common Cathode	78M1248	3.620	
● HDSM-281H	Green	A	6	7	Common Anode	78M1222	2.090	
● HDSM-283H	Green	A	6	7	Common Cathode	78M1226	2.090	
● HDSM-291H	Green	B	6	7	Common Anode	78M1230	4.160	
● HDSM-293H	Green	B	6	7	Common Cathode	78M1234	4.160	
● HDSM-431H	Green	A	9	10	Common Anode	58M6962	2.090	
● HDSM-433H	Green	A	9	10	Common Cathode	58M6966	2.090	

➤ CONTINUED ➤

SINGLE AND DUAL 7-SEGMENT DISPLAYS (CONT.)

Mfg. Part No.	Color	Fig.	Intensity Per Seg (mcd)	Digit Height (mm)	Common Pin	Stock No.	Price Each	
							1-9	
● HDSM-441H	Green	B	9	10	Common Anode	78M1238	4.160	
● HDSM-443H	Green	B	9	10	Common Cathode	78M1242	4.160	
● HDSM-531H	Green	A	10.5	14.22	Common Anode	58M6970	2.250	
● HDSM-533H	Green	A	10.5	14.22	Common Cathode	58M6974	2.250	
● HDSM-541H	Green	B	10.5	14.22	Common Anode	78M1246	4.440	
● HDSM-543H	Green	B	10.5	14.22	Common Cathode	78M1250	4.440	
● HDSM-281F	Yellow	A	8	7	Common Anode	78M1221	1.680	
● HDSM-283F	Yellow	A	8	7	Common Cathode	78M1225	1.680	
● HDSM-291F	Yellow	B	8	7	Common Anode	78M1229	3.360	
● HDSM-293F	Yellow	B	8	7	Common Cathode	78M1233	3.360	
● HDSM-431F	Yellow	A	15	10	Common Anode	58M6961	1.680	
● HDSM-433F	Yellow	A	15	10	Common Cathode	58M6965	1.680	
● HDSM-441F	Yellow	B	15	10	Common Anode	78M1237	3.360	
● HDSM-443F	Yellow	B	15	10	Common Cathode	78M1241	3.360	
● HDSM-531F	Yellow	A	20	14.22	Common Anode	58M6969	2.020	
● HDSM-533F	Yellow	A	20	14.22	Common Cathode	58M6973	2.020	
● HDSM-541F	Yellow	B	20	14.22	Common Anode	78M1245	3.950	
● HDSM-543F	Yellow	B	20	14.22	Common Cathode	78M1249	3.950	
● HDSM-281L	Orange	A	8.5	7	Common Anode	78M1223	1.680	
● HDSM-283L	Orange	A	8.5	7	Common Cathode	78M1227	1.680	
● HDSM-291L	Orange	B	8.5	7	Common Anode	78M1231	3.360	
● HDSM-293L	Orange	B	8.5	7	Common Cathode	78M1235	3.360	
● HDSM-431L	Orange	A	16	10	Common Anode	58M6963	1.680	
● HDSM-433L	Orange	A	16	10	Common Cathode	58M6967	1.680	
● HDSM-441L	Orange	B	16	10	Common Anode	78M1239	3.360	
● HDSM-443L	Orange	B	16	10	Common Cathode	78M1243	3.360	
● HDSM-531L	Orange	A	19.5	14.22	Common Anode	58M6971	2.020	
● HDSM-533L	Orange	A	19.5	14.22	Common Cathode	58M6975	2.020	
● HDSM-541L	Orange	B	19.5	14.22	Common Anode	78M1247	3.950	
● HDSM-543L	Orange	B	19.5	14.22	Common Cathode	78M1251	3.950	

(133274)

RED AND GREEN LED SEGMENT DISPLAYS



7 SEGMENTS

Mfg. Part No.	LED Color	Face Color	Display Height (inch)	Characteristics	Luminous Intensity Typ. (mcd)	I <sub>F</sub> (mA)	Polarity	Material	Stock No.	Price Each	
										1-5	
● AND2307SAL	Red	Red	2.3	RHDP, 10 pin	7.5	10	C-A	GaAsP	89F3451	9.320	
● AND2307SCL	Red	Red	2.3	RHDP, 10 pin	7.5	10	C-C	GaAsP	89F3452	9.320	
● AND-1510SAL	Red	Red	1.5	RHDP, 10 pin	4.6	10	C-A	GaAsP	15B5553	4.600	
● AND-1510SCL	Red	Red	1.5	RHDP, 10 pin	4.6	10	C-C	GaAsP	15B5554	4.600	
● AND-4310SAL	Red	Red	0.4	RHDP & LHDP, 14 pin	3.3	10	C-A	GaAsP	15B5557	2.070	
● AND-4310SCL	Red	Red	0.4	RHDP & LHDP, 14 pin	3.3	10	C-C	GaAsP	15B5558	2.070	
● AND-5610SCL	Red	Red	0.5	RHDP, 10 pin	3.3	10	C-C	GaAsP	15B5564	2.030	
● AND-5610SAL	Red	Red	0.5	RHDP, 10 pin	3.3	10	C-A	GaAsP	15B5563	2.030	
● AND-8010SAL	Red	Red	0.8	RHDP, 16 pin	3.8	10	C-C	GaAsP/GaP	15B5569	2.470	
● AND-8010SCL	Red	Red	0.8	RHDP, 16 pin	3.8	10	C-C	GaAsP/GaP	15B5570	2.470	

16 SEGMENTS

● AND-54200ALB	Red	Red	0.5	RHDP, 18 pin	3.3	10	C-A	GaAsP	15B5559	4.970	
● AND-54200CLB	Red	Red	0.5	RHDP, 18 pin	3.3	10	C-C	GaAsP	15B5560	3.910	
● AND-8010SALB	Red	Red	0.8	RHDP, 18 pin	3.8	10	C-C	GaAsP/GaP	43K0377	3.940	
● AND-8010SCLB	Red	Red	0.8	RHDP, 18 pin	3.8	10	C-C	GaAsP/GaP	53K7543	3.940	

7 SEGMENTS

● AND2307GAL	Green	Gray	2.3	RHDP, 10 pin	6.5	10	C-A	GaP	57J4638	8.580	
● AND-8010GAL	Green	Gray	0.8	RHDP & LHDP, 16 pin	3.3	10	C-A	GaP	15B5565	2.280	
● AND-8010GCL	Green	Gray	0.8	RHDP & LHDP, 16 pin	3.3	10	C-C	GaP	15B5567	2.280	
● AND-4310GAL	Green	Green	0.4	RHDP & LHDP, 14 pin	2.8	10	C-A	GaP	15B5555	1.910	

(88957)

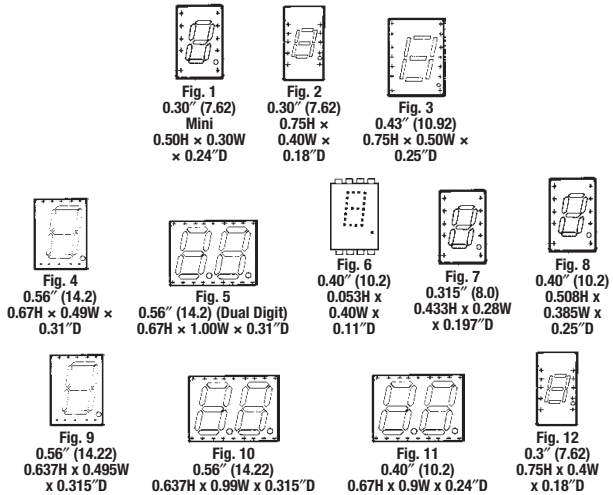


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(148831)

7-SEGMENT RIGHT-HAND DECIMAL DISPLAYS



Mfg. part nos. ending in "1" are Common Anode; mfg. part nos. ending in "3" are Common Cathode. DIP package.

Mfg. Part No.	Fig.	Color	Intensity Per Segment Typ. (µcd)	Stock No.	Price Each 1-9
● HDSP-7401	1	Yellow	480	43K7000	3.390
● HDSP-7501	1	High Efficiency Red	980	43K8803	3.030
● HDSP-7501-CD000	1	High Efficiency Red	980	43K7001	3.390
● HDSP-7503	1	High Efficiency Red	980	54K2750	3.030
● HDSP-7503-CD000	1	High Efficiency Red	980	06B1405	3.390
● HDSP-7511	1	High Efficiency Red	270	43K7002	3.470
● HDSP-7513	1	High Efficiency Red	270	43K7003	3.470
● HDSP-7801	1	Green	3000	43K7004	3.030
● HDSP-7803	1	Green	3000	54K2751	3.030
● HDSP-A101	1	AlGaAs Red	600	43K6962	3.630
● HDSP-A101-FG000	1	AlGaAs Red	600	43K6963	3.990
● HDSP-A103	1	AlGaAs Red	600	06F5522	3.630
● HDSP-A153	1	AlGaAs Red	1400	43K6964	3.720
● HDSP-A211	1	High Efficiency Red	980	06B1190	3.030
● HDSP-A403	1	Orange	720	06B1193	3.030
● HDSP-A901	1	Green	475	06F5527	3.470
● 5082-7610	2	High Efficiency Red	800	43K8876	3.360
● 5082-7611	2	High Efficiency Red	800	09F7194	3.360
● 5082-7613	2	High Efficiency Red	800	43K8878	3.360
● 5082-7616	2	High Efficiency Red	800	43K8879	3.360
● HDSP-3601	2	Green	2700	06F5654	3.360
● 5082-7650	3	High Efficiency Red	1115	43K8880	3.360
● 5082-7651	3	High Efficiency Red	1115	09F7207	3.360
● 5082-7653	3	High Efficiency Red	1115	09F7210	3.360
● 5082-7656	3	High Efficiency Red	1115	43K8881	3.360
● HDSP-4601	3	Green	4000	43K6986	3.360
● HDSP-4603	3	Green	4000	06F5681	3.360
● HDSP-E100	3	AlGaAs Red	650	06F5529	4.020
● HDSP-E101	3	AlGaAs Red	650	43K6965	4.020
● HDSP-E103	3	AlGaAs Red	650	43K6966	4.020
● HDSP-E151	3	AlGaAs Red	15000	43K6967	4.150
● HDSP-501B	4	Blue	3400	27C2522	7.980
● HDSP-503B	4	Blue	3400	27C2523	7.980
● HDSP-5501	4	High Efficiency Red	2800	06F5694	2.750
● HDSP-5503	4	High Efficiency Red	2800	43K8802	2.750
● HDSP-5551	4	High Efficiency Red	1480	43K6996	3.170
● HDSP-5553	4	High Efficiency Red	1480	43K6997	3.170
● HDSP-5601	4	Green	2500	54K2749	2.750
● HDSP-5603	4	Green	2500	06F5719	2.750
● HDSP-5701	4	Yellow	1800	06F5724	2.750
● HDSP-H101	4	AlGaAs Red	700	43K6974	3.300
● HDSP-H103	4	AlGaAs Red	700	43K6975	3.300
● HDSP-H151	4	AlGaAs Red	16000	43K6976	3.440
● HDSP-H153	4	AlGaAs Red	16000	06F5563	3.440
● HDSP-521E	5	Red	2800	43K6990	1.210
● HDSP-521G	5	Green	2500	43K6991	1.210
● HDSP-521Y	5	Yellow	1800	43K6992	1.210
● HDSP-523E	5	Red	2800	27C2527	1.210

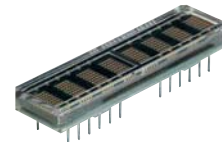
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7-SEGMENT RIGHT-HAND DECIMAL DISPLAYS (CONT.)

Mfg. Part No.	Fig.	Color	Intensity Per Segment Typ. (µcd)	Stock No.	Price Each 1-9
● HDSP-523G	5	Green	2500	27C2528	1.210
● HDSP-523Y	5	Yellow	1800	27C2529	1.210
● HDSP-5521	5	High Efficiency Red	2800	43K6994	3.990
● HDSP-5523	5	High Efficiency Red	2800	43K6995	3.990
● HDSP-0760	6	High Efficiency Red	140	39K9788	33.050
● HDSP-0762	6	High Efficiency Red	140	39K9789	34.450
● HDSP-0772	6	High Efficiency Red	620	39K9790	34.450
● HDSP-0962	6	Green	1100	06F5608	29.860
● HDSP-U103	7	AlGaAs Red	600	43K6978	4.050
● HDSP-U111	7	AlGaAs Red	600	06F5583	4.050
● HDSP-U301	7	Yellow	480	06F5589	3.500
● HDSP-F101	8	AlGaAs Red	650	06F5537	3.630
● HDSP-F103	8	AlGaAs Red	650	43K6968	3.630
● HDSP-F153	8	AlGaAs Red	15000	06F5540	3.630
● HDSP-F201	8	High Efficiency Red	1200	43K6969	3.030
● HDSP-F203	8	High Efficiency Red	1200	43K6970	3.030
● HDSP-F501	8	Green	3500	43K6972	3.030
● HDSP-F503	8	Green	3500	43K6973	3.030
● HDSP-5501-GH000	9	High Efficiency Red	2800	06F5696	3.110
● HDSP-5703	9	Yellow	1800	06F5725	2.750
● HDSP-5703-FG000	9	Yellow	1800	06B1389	3.110
● HDSP-H403	9	Orange	2370	06B1291	2.750
● HDSP-K403	10	Orange	2370	06B1302	3.990
● HDSP-5621	11	Green	2500	43K6998	3.990
● HDSP-5623	11	Green	2500	43K6999	3.990
● HDSP-G103	11	AlGaAs Red	650	06F5550	5.110
● HDSP-G503	11	Green	3500	06F5556	4.260
● 5082-7610-CD000	12	High Efficiency Red	800	43K8877	3.720
● 5082-7621	12	Yellow	620	09F7202	3.360
● HDSP-3900	...	High Efficiency Red	7000	06F5662	4.630
● HDSP-3901-EF000	...	High Efficiency Red	7000	98B3760	5.110
● HDSP-3905	...	High Efficiency Red	7000	43K6983	4.630
● HDSP-4600	...	Green	4000	43K6985	3.360
● HDSP-4606	...	Green	4000	43K6987	3.360
● HDSP-8601	...	Green	1960	43K7005	4.630
● HDSP-N100	...	AlGaAs Red	590	43K6977	5.540
● HDSP-N101	...	Red	590	06F5572	5.540

(2619)

ALPHANUMERIC LED DISPLAY



Low power on-board CMOS IC has memory, ASCII decoder, driver circuitry. DIP pkg., TTL compatible, wave solderable, end-stackable. 16-segment display available; go online or call.

SINGLE CHARACTER, DECODES HEXADECIMAL CHARACTERS

Mfg. Part No.	Color	Description	Stock No.	Price Each 1-9
● HDSP-0784	High Efficiency Red	0.29" (7.4) 4 x 7 Dot Matrix	06B1329	130.580

4 CHARACTER SMART, DECODES 128 ASCII CHARACTERS

● HDLG-2416	Green	0.20" (5.00) 5 x 7 Dot Matrix	06F5510	17.780
● HDLO-2416	Red	0.20" (5.00) 5 x 7 Dot Matrix	39K9785	17.780

8 CHARACTER SMART, DECODES 128 ASCII CHARACTERS

● HDSP-2110	Orange	0.20" (5.00) 5 x 7 Flexible Dot Matrix 0.77" (19.6) Pkg. Ht.	43K6979	32.640
● HDSP-2111	Yellow	0.20" (5.00) 5 x 7 Flexible Dot Matrix 0.77" (19.6) Pkg. Ht.	06F5615	32.640
● HDSP-2112	High Efficiency Red	0.20" (5.00) 5 x 7 Flexible Dot Matrix 0.77" (19.6) Pkg. Ht.	06F5616	32.640
● HDSP-2113	High Performance Green	0.20" (5.00) 5 x 7 Flexible Dot Matrix 0.77" (19.6) Pkg. Ht.	43K6980	32.640

▶ CONTINUED ▶

LED DISPLAYS • LIGHT BAR DISPLAYS

ALPHANUMERIC LED DISPLAY (CONT.)

8 CHARACTER 5mm SMART DISPLAYS

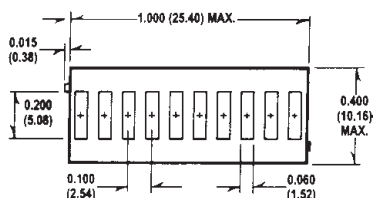
Mfg. Part No.	Color	Description	Stock No.	Price Each	
				1-9	10-49
● HDSP-2502	Red	Parallel interface, 6.9mm character ht., 7.5ucd intensity, 300mA supply current	<a href="#">39K9792</a>	38.520	
● HDSP-2503	Green	Parallel interface, 6.9mm character ht., 7.5ucd intensity, 300mA supply current	<a href="#">39K9793</a>	38.520	
● HDSP-2532	Red	Parallel interface,	<a href="#">39K9795</a>	30.900	
● HDSP-2533	Green	6.9mm character ht.,	<a href="#">06F5634</a>	30.900	
● HDSP-2534	AlGaAs Red	7.5ucd intensity,	<a href="#">39K9796</a>	34.230	

4 AND 8 CHARACTER SMART, SERIAL INPUT, INDIVIDUAL DOT CONTROL

● HCMS-2353	High Perf. Green	1x4 Character 0.2" (5.00) 5x7 Font, Controller input	<a href="#">06F5370</a>	86.940	
● HCMS-2903	Green	1x4 Character 0.15" (3.71) 5x7 Font, Serial Input	<a href="#">39K9778</a>	19.730	
● HCMS-2905	AlGaAs Red	1x4 Character 0.15" (3.71) 5x7 Font, Serial Input	<a href="#">06F5379</a>	21.830	
● HCMS-2912	High Efficiency Red	1x8 Character 0.15" (3.71) 5x7 Font, Serial Input	<a href="#">06F5381</a>	29.660	
● HCMS-2919	Blue	1 x 8 Character 0.2" (5.00), 5x7 Font, Serial Input	<a href="#">95K4829</a>	77.840	
● HCMS-2963	Green	1x4 Character 0.2" (5.00) 5x7 Font, Serial Input	<a href="#">39K9781</a>	20.300	
● HCMS-2964	Orange	1x4 Character 0.2" (5.00) 5x7 Font, Serial Input	<a href="#">39K9782</a>	20.300	
● HCMS-2965	AlGaAs Red	1x4 Character 0.2" (5.00) 5x7 Font, Serial Input	<a href="#">39K9783</a>	22.390	
● HCMS-2972	High Efficiency Red	1x8 Character 0.2" (5.00) 5x7 Font, Serial Input	<a href="#">39K9784</a>	30.900	
● HCMS-2973	Green	1x8 Character 0.2" (5.00) 5x7 Font, Serial Input	<a href="#">06F5397</a>	30.900	
● HCMS-2976	Blue	1 x 8 Character 0.2" (5.00), 5x7 Font, Serial Input	<a href="#">95K4830</a>	81.440	
● HCMS-3901	Yellow	1x4 Character 0.15" (3.71) 5x7 Font, Serial Input	<a href="#">74K5111</a>	22.190	
● HCMS-3903	Green	1x4 Character 0.15" (3.71) 5x7 Font, Serial Input	<a href="#">74K5112</a>	22.190	
● HCMS-3911	Yellow	1x8 Character 0.15" (3.71) 5x7 Font, Serial Input	<a href="#">74K5113</a>	33.360	
● HCMS-3913	Green	1x8 Character 0.15" (3.71) 5x7 Font, Serial Input	<a href="#">74K5114</a>	33.360	
● HCMS-3961	Yellow	1x4 Character 0.2" (5.00) 5x7 Font	<a href="#">74K5115</a>	22.830	
● HCMS-3963	Green	1x4 Character 0.2" (5.00) 5x7 Font	<a href="#">74K5116</a>	22.830	
● HCMS-3971	Yellow	1 x 8 Character 0.2" (5.00), 5x7 Font	<a href="#">74K5117</a>	34.750	
● HCMS-3973	Green	1 x 8 Character 0.2" (5.00), 5x7 Font	<a href="#">74K5118</a>	34.750	
● HDLA-2416	Orange	1x4 Character 0.2" (5.00) 5x7 Font, Parallel Input	<a href="#">06F5509</a>	17.780	
● HDLS-2416	AlGaAs Red		<a href="#">39K9786</a>	19.760	
● HDSP-2132	High Efficiency Red	1x8 Character 0.2" (5.00) 5x7 Font, Parallel Input	<a href="#">39K9791</a>	145.640	
● HDSP-2530	Orange	1 x 8 Character 0.2" (5.00), 5x7 Font, Parallel Input	<a href="#">06F5631</a>	30.900	

(9463)

10-ELEMENT BAR GRAPH ARRAY



LED array packages. Pins: 20. Dimensions: 0.2"H x 0.4"W x 1"L.

Mfg. Part No.	Color	Light Emitting Area No./Size	Intensity Typical Per LED	Stock No.	Price Each	
					1-9	10-49
● HDSP-4830	HER	10 Areas/ 0.20 x 0.060"	250µcd @ 20mA	<a href="#">43K8801</a>	4.940	3.800
● HDSP-4832	3 HER	10 Areas/ 0.20 x 0.060"	3800µcd @ 20mA	<a href="#">06F5686</a>	6.450	4.960
● HDSP-4836	2 HER	10 Areas/ 0.20 x 0.060"	3800µcd @ 20mA	<a href="#">43K6988</a>	6.450	4.960
● HDSP-4840	Yellow	10 Areas/ 0.20 x 0.060"	1900µcd @ 10mA	<a href="#">06F5688</a>	5.880	4.530

➤ CONTINUED ➤

10-ELEMENT BAR GRAPH ARRAY (CONT.)

Mfg. Part No.	Color	Light Emitting Area No./Size	Intensity Typical Per LED	Stock No.	Price Each	
					1-9	10-49
● HDSP-4850	Green	10 Areas/ 0.20 x 0.060"	1900µcd @ 10mA	<a href="#">43K6989</a>	5.880	4.530
● HLCP-J100	AlGaAs	10 Areas/ 0.20 x 0.060"	1000 mcd @ 20mA	<a href="#">43K7017</a>	5.880	4.530

(32797)

7-SEGMENT DISPLAYS (10mm)



Features

- Low power consumption
- Suitable for DC and multiplex operation
- Evenly lighted segments
- Grey package surface
- Untinted segments
- Wide viewing angle

10mm FOUR DIGIT, DARK SURFACE

Mfg. Part No.	Color Wavelength	Circuitry	I <sub>V</sub> µcd	I <sub>F</sub> mA	V <sub>F</sub> V	I <sub>F</sub> mA	Stock No.	Price Each	
								1-9	10-24
● TDCG1050M	Green (573 nm)	Common Cathode	>2800	10	2.0 (<2.4)	20	<a href="#">33C1194</a>	10.450	9.420
● TDCG1060M	Green (573 nm)	Common Anode	>2800	10	2.0 (<2.4)	20	<a href="#">22H1090</a>	4.830	4.350

10 mm SINGLE DIGIT

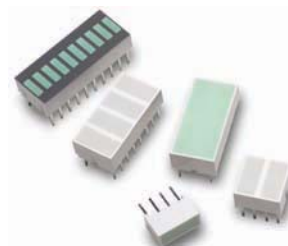
● TDSR1050	Red (660 nm)	Common Anode	>180	10	1.6 (<2.0)	20	<a href="#">93K0321</a>	2.300	2.070
● TDSR1060	Red (660 nm)	Common Cathode	>180	10	1.6 (<2.0)	20	<a href="#">39M4877</a>	2.030	1.830
● TDSO3150	High-Efficiency Red (635 nm)	Cathode	>450	10	2.0 (<3.0)	20	<a href="#">33C1209</a>	2.710	2.440
● TDSO3160	High-Efficiency Red (635 nm)	Common Cathode	>450	10	2.0 (<3.0)	20	<a href="#">33C1210</a>	2.710	2.440
● TDSY3150	Yellow (585 nm)	Common Anode	>450	10	2.4 (<3.0)	20	<a href="#">33C1223</a>	2.710	2.440
● TDSY3160	Yellow (585 nm)	Common Cathode	>450	10	2.4 (<3.0)	20	<a href="#">33C1224</a>	2.710	2.440
● TDSG3150	Green (565 nm)	Common Anode	>450	10	2.4 (<3.0)	20	<a href="#">33C1197</a>	2.710	2.440
● TDSG3160	Green (565 nm)	Common Cathode	>450	10	2.4 (<3.0)	20	<a href="#">33C1198</a>	3.140	2.830
● TDSSL3150	Low-Current Red (635 nm)	Common Anode	>180	2	1.8	2	<a href="#">33C1203</a>	3.490	3.150
● TDSSL3160	Low-Current Red (635 nm)	Common Cathode	>180	2	1.9	2	<a href="#">33C1204</a>	3.080	2.780

13mm SINGLE DIGIT

● TDSR1350	Low-Current Red (635 nm)	Common Anode	>180	10	2.4	50	<a href="#">33C1215</a>	2.440	2.200
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(74696)

LED LIGHT BARS



Features

- Designed for Fixed Message Annunciation
- HLCP-X100 Series Designed for Low Current
- Flush Mountable
- Centers: 2.54mm



AlGaAs RED

Mfg. Part No.	Dim. L x W x H (mm)	Light Emitting Areas		Pkg.	Stock No.	Price Each
		No.	Size (mm)			
● HLCP-A100	8.89 x 4.953 x 6.223	1	8.89 x 3.81	16-SIP	<a href="#">43K8804</a>	1.800
● HLCP-B100	19.05 x 4.953 x 6.223	1	19.05 x 3.81	8-SIP	<a href="#">06F6376</a>	2.940
● HLCP-E100	20.32 x 10.160 x 6.223	4	8.89 x 3.81	16-DIP	<a href="#">43K7015</a>	4.110
● HLCP-H100	20.32 x 10.160 x 6.223	1	8.89 x 19.05	16-DIP	<a href="#">43K7016</a>	4.110

HER

● HLMP-2300	8.89 x 4.953 x 6.223	1	8.89 x 3.81	4-SIP	<a href="#">43K7042</a>	1.430
● HLMP-2300-EF000	8.89 x 4.953 x 6.223	1	8.89 x 3.81	4-SIP	<a href="#">98B4660</a>	1.570
● HLMP-2350	19.05 x 4.953 x 6.223	1	19.05 x 3.81	8-SIP	<a href="#">43K7043</a>	2.430
● HLMP-2350-EF000	19.05 x 4.953 x 6.223	1	19.05 x 3.81	8-SIP	<a href="#">98B4661</a>	2.650
● HLMP-2600	8.89 x 8.89 x 6.223	2	8.89 x 3.81	8-DIP	<a href="#">06F6653</a>	2.140
● HLMP-2620	20.32 x 10.160 x 6.223	4	8.89 x 3.81	16-DIP	<a href="#">43K7049</a>	3.570
● HLMP-2635	19.05 x 10.16 x 6.223	2	3.81 x 19.05	16-DIP	<a href="#">06F6657</a>	3.570
● HLMP-2655	8.89 x 8.89 x 6.223	1	8.89 x 8.89	8-DIP	<a href="#">43K7050</a>	2.140
● HLMP-2655-EF000	8.89 x 8.89 x 6.223	1	8.89 x 8.89	8-DIP	<a href="#">98B4669</a>	2.370

➤ CONTINUED ➤

LIGHT BAR DISPLAYS • TFT MONITOR KITS

LED LIGHT BARS (CONT.)

Mfg. Part No.	Dim. L x W x H (mm)	Light Emitting Areas		Pkg.	Stock No.	Price Each
		No.	Size (mm)			
● HLMP-2685	20.32 x 10.160 x 6.223	1	8.89 x 19.05	16-DIP	43K7051	3.570
● HLMP-2685-EF000	20.32 x 10.160 x 6.223	1	8.89 x 19.05	16-DIP	06F6663	3.910
<b>YELLOW</b>						
● HLMP-2400	8.89 x 4.953 x 6.223	1	8.89 x 3.81	4-SIP	43K7044	1.430
● HLMP-2400-EF000	8.89 x 4.953 x 6.223	1	8.89 x 3.81	4-SIP	98B4662	1.570
● HLMP-2450	19.05 x 4.953 x 6.223	1	19.05 x 3.81	8-SIP	43K7045	2.430
● HLMP-2450-EF000	19.05 x 4.953 x 6.223	1	19.05 x 3.81	8-SIP	98B4663	2.650
● HLMP-2700	8.89 x 8.89 x 6.223	2	8.89 x 3.81	8-DIP	43K7052	2.140
● HLMP-2700-EF000	10.16 x 10.16 x 6.223	2	8.89 x 3.81	8-DIP	43K7053	2.370
● HLMP-2720	8.89 x 8.89 x 6.223	4	8.89 x 3.81	16-DIP	06F6665	3.570
● HLMP-2755	8.89 x 8.89 x 6.223	1	8.89 x 8.89	8-DIP	43K7054	2.140
● HLMP-2770	20.32 x 10.16 x 6.223	2	8.89 x 8.89	16-DIP	43K7055	3.570
● HLMP-2785	20.32 x 10.16 x 6.223	1	8.89 x 19.05	16-DIP	43K7056	3.570
● HLMP-2785-EF000	19.05 x 10.16 x 6.223	1	8.89 x 19.05	16-DIP	43K7057	3.910
<b>GREEN</b>						
● HLMP-2500	8.89 x 4.953 x 6.223	1	8.89 x 3.81	4-SIP	43K7046	1.430
● HLMP-2550	19.05 x 4.953 x 6.223	1	19.05 x 3.81	8-SIP	06F6649	2.430

▶ CONTINUED ▶

LED LIGHT BARS (CONT.)

Mfg. Part No.	Dim. L x W x H (mm)	Light Emitting Areas		Pkg.	Stock No.	Price Each
		No.	Size (mm)			
● HLMP-2550-FG000	19.05 x 4.953 x 6.223	1	19.05 x 3.81	8-SIP	98B4665	2.650
● HLMP-2500-FG000	8.89 x 4.953 x 6.223	1	8.89 x 3.81	4-SIP	98B4664	1.570
● HLMP-2820	20.32 x 10.16 x 6.223	4	8.89 x 3.81	16-DIP	43K7058	3.570
● HLMP-2835	20.32 x 10.16 x 6.223	2	3.81 x 19.05	16-DIP	43K7059	3.570
● HLMP-2855	8.89 x 8.89 x 6.223	1	0.35 x 0.35	8-DIP	43K7060	2.140
● HLMP-2870	20.32 x 10.16 x 6.223	2	8.89 x 8.89	16-DIP	43K7061	3.570
● HLMP-2885	20.32 x 10.16 x 6.223	1	8.89 x 19.05	16-DIP	43K7062	3.570
● HLMP-2885-FG000	20.32 x 10.16 x 6.223	1	8.89 x 19.05	16-DIP	98B4676	3.910
<b>BICOLOR: GREEN/YELLOW</b>						
● HLMP-2965	8.89 x 8.89 x 6.223	1	8.89 x 8.89	8-DIP	43K7063	5.650
<b>PANEL AND LEGEND MOUNTS</b>						
Mfg. Part No.	For Use with Series		Panel Cut Out size	Stock No.	Price Each	
	HLCF-	HLMP-				
● HLMP-2598	B100	2350, 2450, 2550	7.62 x 22.86 mm (0.300 x 0.900")	43K7047	0.371	
● HLMP-2599	A100	2300, 2400, 2500	7.62 x 12.70 mm (0.300 x 0.500")	43K7048	0.371	

(2620)

TFT COLOR MONITOR KITS

PLUG AND PLAY PROTOTYPING KITS

(INCLUDES CONTROL CIRCUITRY, POWER SUPPLY, CCFL DC-AC INVERTER AND CONTROL CABLING)

Mfg. Part No.	Screen Diag. (in)	Pixel Count W x H	Brightness Nits (cd/m2)	Pixel Pitch W x H (mm)	Active Area W x H (mm)	Overall Dimension W x H x D (mm)	Driving Voltage (V)	Stock No.	Price Each	
									1-2	3+
AND-TFT-25XS-LED-KIT	2.5	160 X 234	250	0.1025 X 0.163	49.68 X 37.44	60.6 X 48.4 X 3.45	12	77M1807	189.140	176.400
ANDPSIO25TD-LED	2.5	320 X 240	250	0.053 X 0.159	50.91 X 38.16	61.7 X 44.5 X 2.68	3.0	38M8750	81.060	75.600
AND-TFT-35VX-KIT	3.5	640 x 480	210	0.1125 x 0.1095	72 x 52.56	84.25 x 65.40 x 3.45	5.0	38M8741	268.270	250.200
AND-TFT-35PA-LED-KIT	3.5	160 x 234	220	0.149 x 0.225	71.6 x 52.7	84 x 69 x 8	12	09J5304	272.130	253.800
AND-TFT-35PA-4HB-KIT	3.5	160 X 234	250	0.149 X 0.225	71.6 X 52.7	84 X 69 X 7	12	38M8740	389.860	363.600
AND-TFT-5PA-KIT	5	320 x 234	400	0.107 x 0.319	102.7 x 74.5	127 x 93 x 13	12	09J5305	303.010	282.600
AND-TFT-5TS	5.0	960 x 234	350	0.107 x 0.319	102.7 x 74.5	119 x 91 x 7.5	12.0	86H9627	250.900	234.000
AND-TFT-5TS-DHB-KIT	5.0	320 X 234	350	0.107 X 0.319	102.7 X 74.5	119 X 91 X 7.5	12	01N4687	333.890	311.400
AND-TFT-5TS-KIT	5.0	320 X 234	500	0.107 X 0.319	102.7 X 74.5	119 X 91 X 7.5	12	01N4688	281.780	262.800
AND-TFT-5VX	5.0	640 x 480	400	0.156 x 0.159	74.88 x 101.76	91.4 x 119.3 x 7.9	12.0	38M8743	304.940	284.400
AND-TFT-5VX-KIT	5.0	640 x 480	1,000	0.156 x 0.159	74.88 x 101.76	91.4 x 119.3 x 7.9	12.0	38M8744	413.020	385.200
AND-TFT-64PA-KIT	6.4	320 x 234	330	0.135 X 0.416	129.6 x 97.3	156.3 x 120 x 14.3	12	09J5306	405.300	378.000
AND-TFT-7WX-KIT	7.0	800 X 480	400	0.190 X 0.190	152.4 X 91.44	165 X 104 X 6.2	12	01N4689	384.070	358.200
AND-TFT-8PA-KIT	8.0	480 X 468	350	0.112 X 0.252	161.28 X 117.936	172.4 X 132 X 6.6	12	01N4690	395.650	369.000

POLY-SILICON COLOR TFT DISPLAYS

AND050VL-LED-KIT	5.0	640 XX 480	450	0.159 XX 0.156	101.76 X 74.88	120.7 X 92.8 X 12.5	5	01N4691	403.370	376.200
ANDPSIO56ETOS-HB-KIT	5.6	1024 x 600	250	0.120 x 0.120	122.88 x 72	141.8 x 84.4 x 7.5	3.3	38M8753	1393.460	1299.600
ANDPSIO8C355-KIT	8.4	800 x 600	145	0.213 x 0.213	170.4 x 127.8	201 x 140 x 6	3.3	09J5310	1422.410	1326.600
ANDPSIO8C351-HB-KIT	8.4	800 x 600	350	0.213 x 0.213	170.4 x 127.8	200 x 150 x 12	3.3	09J5309	1300.820	1213.200
ANDPSI104EA5S-HB-KIT	10.4	1024 x 768	180	0.2055 x 0.2055	210.4 x 157.8	242 x 172 x 6	3.3	09J5311	1403.110	1308.600
ANDPSI104EA5S-4HB	10.4	1024 x 768	1,000	0.2055 x 0.2055	210.4 x 157.8	238 x 173 x 15	3.3	38M8758	2103.700	1962.000
ANDPSI121GAOS-HB-KIT	12.1	1024 x 768	350	0.24 x 0.24	245.8 x 184.3	278 x 209 x 12	3.3	09J5313	1511.190	1409.400

AMORPHOUS-SILICON COLOR TFT DISPLAYS

AND064VT4N1-HB	6.4	640 x 480	400	0.203 x 0.203	129.6 x 97.4	175 x 127 x 13	5.0	79K2983	411.090	383.400
AND64C402V-HB-KIT	6.4	640 x 480	300	0.203 x 0.203	129.6 x 97.4	175 x 127 x 13	5	09J5319	976.580	910.800
AND10C210-HB-KIT	10.4	640 x 480	400	0.33 x 0.33	211.2 x 158.4	265 x 189 x 14	5	09J5315	1285.380	1198.800
AND10C210-4HB	10.4	640 x 480	1,000	0.33 x 0.33	211.2 x 158.4	265 x 189 x 14	5.0	86H9638	1005.530	937.800
AND12C285-DHB-KIT	12.1	800 x 600	500	0.3075 x 0.3075	246.0 x 184.5	290 x 220 x 15	5	09J5318	1393.460	1299.600
AND12C285A-DHB	12.1	800 x 600	...	0.3075 x 0.3075	246.0 x 184.5	290 x 220 x 15	5.0	86H9640	754.630	703.800

(80421)



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