

LED Thru Hole Lamps



3 mm — Standard Lamps

Stock No.	Mfr.'s Type	Color	Lens	Luminous Intensity mcd	Viewing Angle	EACH
						1-249
782-0010	HLMP-K101	AlGaAs Red	Diffused	45.0 @ 20 mA	60°	.29
782-0135	HLMP-K105	AlGaAs Red	Clear	65.0 @ 20 mA	45°	.18
782-0137	HLMP-K401	Orange	Diffused	5.5 @ 10 mA	60°	.19
782-0015	HLMP-1301	HER*	Diffused	5.5 @ 10 mA	60°	.22
782-0020	HLMP-1401	Yellow	Diffused	6.0 @ 10 mA	60°	.24
782-1503	HLMP-1503	Green	Diffused	5.0 @ 10 mA	60°	.23
782-0210	HLMP-1321	HER*	Diffused	30.0 @ 10 mA	45°	.19
782-0220	HLMP-1521	Green	Diffused	22.0 @ 10 mA	45°	.23
782-0040	HLMP-1719	Yellow	Diffused	2.1 @ 2 mA	50°	.35
782-0045	HLMP-1790	Green	Diffused	2.3 @ 2 mA	50°	.31
782-0140	HLMP-1340	HER*	Clear	55 @ 20 mA	45°	.34
782-0145	HLMP-1440	HER*	Clear	45 @ 20 mA	45°	.24
782-0150	HLMP-1540	Green	Clear	45 @ 20 mA	45°	.39
782-0035	HLMP-1700	HER*	Diffused	2.1 @ 2 mA	50°	.26

5 mm — Standard Lamps

Stock No.	Mfr.'s Type	Color	Lens	Luminous Intensity mcd	Viewing Angle	EACH
						1-49
782-0055	HLMP-D101	AlGaAs	Diffused	70.0 @ 20 mA	65°	.23
782-0057	HLMP-D401	Orange	Diffused	7.0 @ 10 mA	60°	.17
782-0060	HLMP-3301	HER*	Diffused	7.0 @ 10 mA	60°	.17
782-0065	HLMP-3401	Yellow	Diffused	8.0 @ 10 mA	60°	.32
782-0070	HLMP-3507	Green	Diffused	5.2 @ 10 mA	60°	.18
782-0160	HLMP-0160	HER*	Clear	12.5 @ 20 mA	24°	.33
782-0225	HLMP-3316	Red	Clear	22.0 @ 10 mA	24°	.38
782-0235	HLMP-3519	Green	Clear	10.6 @ 10 mA	24°	.19
782-4250	HLMP-3600	Red	Clear	2.1 @ 10 mA	24°	.33
782-9889	HLMP-3680	Green	Clear	1.6 @ 10 mA	24°	.39
782-0165	HLMP-3850	Yellow	Clear	140 @ 20 mA	24°	.27
782-0170	HLMP-3950	UBG†	Clear	265 @ 20 mA	24°	.28
782-0080	HLMP-4700	HER*	Diffused	2.3 @ 2 mA	50°	.51
782-0085	HLMP-4719	Yellow	Diffused	2.1 @ 2 mA	50°	.24
782-0090	HLMP-4740	Green	Diffused	2.3 @ 2 mA	50°	.26

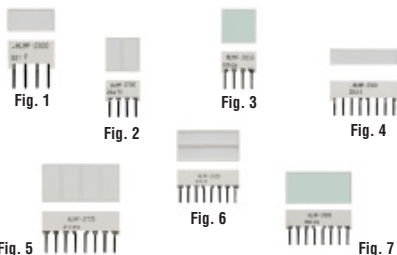
3 mm — High-Performance Lamps

Stock No.	HLMP-NL06	Amber	Clear	220.0 mcd@20 mA	60°	.18
782-7800	HLMA-KL00	Amber	Clear	200.0 mcd@20 mA	45°	.67

*High-efficiency red. †Ultra bright green.

LED Light Bars

Each of the eight X-Y stackable package styles offers one, two or four large, uniformly illuminated light emitting surfaces. Available in high-efficiency red, yellow and high-performance green colors.



Features

- ▶ Flush Mountable
- ▶ Diffused Lens
- ▶ 0.100" Pin Centers

Applications

- ▶ Designed for Fixed Message Annunciation
- ▶ Backlighting Legends
- ▶ Simple Indicators

Stock No.	Mfr.'s Type	Fig.	Light Emitting Areas		Color	No. of Pins	Device Size L x W x H (Inches)	EACH
			No.	Size (Inches)				1-99
782-0691	HLMP-2300	1	1	0.35 x 0.15	HER*	4	0.40 x 0.195 x 0.245	1.22
782-0692	HLMP-2400	1	1	0.35 x 0.15	Yellow	4	0.40 x 0.195 x 0.245	1.07
782-0693	HLMP-2500	1	1	0.35 x 0.15	Green	4	0.40 x 0.195 x 0.245	1.18
782-0751	HLMP-2600	2	2	0.35 x 0.15	HER*	8	0.40 x 0.400 x 0.245	1.63
782-0752	HLMP-2700	2	2	0.35 x 0.15	Yellow	8	0.40 x 0.400 x 0.245	1.48
782-0753	HLMP-2800	2	2	0.35 x 0.15	Green	8	0.40 x 0.400 x 0.245	1.42
782-0901	HLMP-2655	3	1	0.35 x 0.35	HER*	8	0.40 x 0.400 x 0.245	1.67
782-0902	HLMP-2755	3	1	0.35 x 0.35	Yellow	8	0.40 x 0.400 x 0.245	1.70
782-0903	HLMP-2855	3	1	0.35 x 0.35	Green	8	0.40 x 0.400 x 0.245	1.93
782-0701	HLMP-2350	4	1	0.75 x 0.15	HER*	8	0.80 x 0.195 x 0.245	2.25
782-0702	HLMP-2450	4	1	0.75 x 0.15	Yellow	8	0.80 x 0.195 x 0.245	1.82
782-0703	HLMP-2550	4	1	0.75 x 0.15	Green	8	0.80 x 0.195 x 0.245	1.82
782-0801	HLMP-2620	5	4	0.35 x 0.15	HER*	16	0.80 x 0.400 x 0.245	2.56
782-0802	HLMP-2720	5	4	0.35 x 0.15	Yellow	16	0.80 x 0.400 x 0.245	2.56
782-0803	HLMP-2820	5	4	0.35 x 0.15	Green	16	0.80 x 0.400 x 0.245	2.62
782-0851	HLMP-2635	6	2	0.15 x 0.75	HER*	16	0.80 x 0.400 x 0.245	2.50
782-0852	HLMP-2735	6	2	0.15 x 0.75	Yellow	16	0.80 x 0.400 x 0.245	2.44
782-0853	HLMP-2835	6	2	0.15 x 0.75	Green	16	0.80 x 0.400 x 0.245	2.54
782-1001	HLMP-2685	7	1	0.35 x 0.75	HER*	16	0.80 x 0.400 x 0.245	3.31
782-1002	HLMP-2785	7	1	0.35 x 0.75	Yellow	16	0.80 x 0.400 x 0.245	3.14
782-1003	HLMP-2885	7	1	0.35 x 0.75	Green	16	0.80 x 0.400 x 0.245	3.13

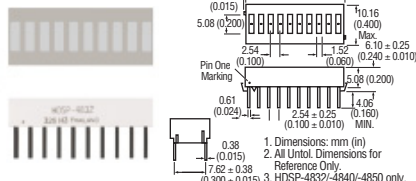
*High-efficiency red.

10 Element Bar Graph Arrays

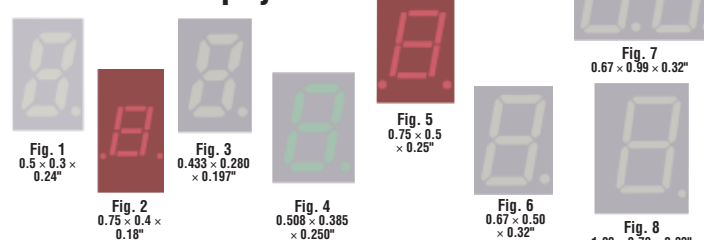
Features

- ▶ Matched LEDs for Uniform Appearance
- ▶ End Stackable Package Interlock Ensures Correct Alignment

- ▶ Industrial Controls
- ▶ Instrumentation
- ▶ Computer Peripherals
- ▶ Consumer Products



Seven-Segment Right-Hand Decimal Point Displays



Available in character sizes from 7.62 mm (0.3") to 20 mm (0.8") and in AlGaAs deep red (Red in table below), high-efficiency red (HER in table below), yellow and high-performance green (Green in table below) colors. AlGaAs displays are tested and selected for their excellent low-current characteristics to ensure that the segments match at low currents.

Features

- ▶ Solid-State LED Displays
- ▶ Dual-In-Line Package

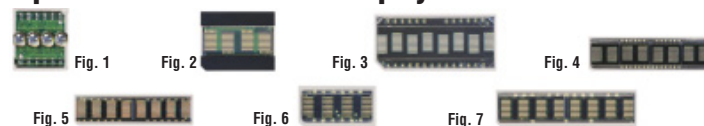
Applications

- ▶ Instruments
- ▶ Weighing Scales
- ▶ Meters
- ▶ Point-of-Sale Terminals

Stock No.	Mfr.'s Type	Fig.	Character Size mm (inch)	Color	Typical Intensity Per Segment (µcd)	Common Circuit Connection	EACH
							1-49
782-0320	HDSP-7501	1	7.62 (0.300)	HER	980 @ 5 mA	Anode	3.04
782-0325	HDSP-7503	1	7.62 (0.300)	HER	980 @ 5 mA	Cathode	2.95
782-0345	HDSP-7803	1	7.62 (0.300)	Green	3000 @ 10 mA	Cathode	2.94
782-0340	HDSP-7801	1	7.62 (0.300)	Green	6800 @ 20 mA	Anode	2.50
782-0360	5082-7611	2	7.62 (0.300)	HER	800 @ 5 mA	Anode	2.72
782-0365	5082-7613	2	7.62 (0.300)	HER	800 @ 5 mA	Cathode	2.70
782-0390	HDSP-3601	2	7.62 (0.300)	Green	2700 @ 10 mA	Anode	2.60
782-1020	HDSP-U301	3	8.00 (0.315)	Yellow	480 @ 5 mA	Anode	2.31
782-6082	HDSP-F501	4	10.16 (0.400)	Green	3500 @ 10 mA	Anode	2.33
782-0420	5082-7651	5	10.92 (0.430)	HER	1115 @ 5 mA	Anode	3.21
782-0425	5082-7653	5	10.92 (0.430)	HER	1115 @ 5 mA	Cathode	2.71
782-0480	HDSP-H101	6	14.20 (0.559)	Red	700 @ 1 mA	Anode	2.66
782-0485	HDSP-H103	6	14.20 (0.559)	Red	700 @ 1 mA	Cathode	2.66
782-0490	HDSP-5501	6	14.20 (0.559)	HER	2800 @ 10 mA	Anode	2.63
782-0495	HDSP-5503	6	14.20 (0.559)	HER	2800 @ 10 mA	Cathode	2.72
782-0520	HDSP-5701	6	14.20 (0.559)	Yellow	1800 @ 10 mA	Anode	2.10
782-0540	HDSP-5601	6	14.20 (0.559)	Green	2500 @ 10 mA	Anode	2.29
782-0545	HDSP-5603	6	14.20 (0.559)	Green	500 @ 10 mA	Cathode	2.03
782-0500	HDSP-5521	7	14.20 (0.559)	HER	2800 @ 10 mA	Anode	3.14
782-0530	HDSP-5721	7	14.20 (0.559)	Yellow	1800 @ 10 mA	Anode	3.19
782-0575	HDSP-3903	8	20.32 (0.800)	HER	4800* @ 20 mA	Cathode	3.88

*Up to 7000 µcd @ 100 mA pulsed, 20% duty cycle.

Alphanumeric "Smart" LED Displays



HPDL-1414 and HPDL-2416 decode 64 ASCII characters in a "British Flag" layout Types HDLR-, HDLO-, HDLA- and HDL-2416 decode 128 ASCII characters in a pleasing dot matrix font. Types HDSP-2107 and HDSP-2110 through -2113 decode 128 ASCII characters, have onboard RAM that stores up to 16 user-definable characters and features flashing characters, full-display blinking, multi-level dimming and self test. The HCMS-2961 through -2975 serial-input displays are dot-addressable to support nearly unlimited user defined symbols. -40°C to +85°C free air operating temperature range, -45°C to +85°C for HDSP-2112, HDSP-2112 and HDSP-2502.

Features

- ▶ Solid-State Alphanumeric LED Displays Available in 16 Segment and 5 x 7 Dot Matrix Fonts
- ▶ Onboard Low-Power CMOS IC Contains All Control Logic and Drive Circuitry

Applications

- ▶ Avionics
- ▶ Industrial Control
- ▶ Instrumentation
- ▶ Telecommunications

Stock No.	Mfr.'s Type	Fig.	No. of Char.	Color	Character Height mm (Inch)	Description	EACH
							1-4
782-0600	HPDL-1414	1	4	Red	2.85 (0.112)	16 Segment, Monolithic	20.87
782-0615	HDLO-2416	2	5	HER*	5.00 (0.197)	5 x 7 Dot Matrix	18.23
782-0635	HDSP-2112	3	8	HER*	5.00 (0.197)	5 x 7 Dot Matrix, Decodes 128 ASCII Char.	46.07
782-0650	HDSP-2113	3	8	Green	5.00 (0.197)	5 x 7 Dot Matrix, Decodes 128 ASCII Char.	45.81
782-0695	HDSP-2502	4	8	HER*	7.00 (0.276)	5 x 7 Dot Matrix, Decodes 128 ASCII Char.	49.74
782-0720	HDSP-2532	5	8	HER*	5.00 (0.197)	11.4 mm (0.45") Slimline Package Height	47.80
782-0735	HDSP-2533	5	8	Green	5.00 (0.197)	11.4 mm (0.45") Slimline Package Height	45.28
782-0755	HCMS-2961	6	4	Yellow	5.00 (0.197)	5 x 7 Dot Matrix, Individual Dot Control	22.69
782-0760	HCMS-2963	6	4	Green	5.00 (0.197)	5 x 7 Dot Matrix, Individual Dot Control	23.49
782-0770	HCMS-2972	7	8	HER*	5.00 (0.197)	5 x 7 Dot Matrix	46.52

*High-efficiency red.

These LED arrays are designed to display information in easily recognizable bar graph form. The packages are end stackable and therefore capable of displaying long strings of information. Use of these arrays eliminates the alignment, intensity and color matching problems associated with discrete LEDs. The HDSP-4830/4840/4850 and HLCP-J100 series parts contain LEDs of one color. The HDSP-4832 contains three colors in a single package.

Stock No.	Mfr.'s Type	Color	Light Emitting Areas		Typical Intensity (mcd)	EACH
			No.	Size		1-99
782-4315	HDSP-4830	High Efficiency Red	10	0.2 x 0.06"	250 @ 20 mA	4.09
782-4320	HDSP-4832	Three Color*	10	0.2 x 0.06"	3800 @ 20 mA	5.24
782-9995	HDSP-4840	Yellow	10	0.2 x 0.06"	1900 @ 10 mA	8.01
782-9801	HDSP-4850	Green	10	0.2 x 0.06"	1900 @ 10 mA	6.16
782-0006	HLCP-J100	AlGaAs Red	10	0.2 x 0.06"	1000 @ 20 mA	7.81

*Contains 3 High Efficiency Red elements on one end, then 4 Yellow in the center, then three Green elements.