

Alphanumeric LED Displays - continued

5.08mm – 4 Character, Intelligent

Dot Matrix



Four character 5x7 dot matrix displays driven by integral CMOS IC, and pin compatible with HPDL2416 display. Built in RAM, ASCII decoder and LED drive circuitry. Additional features over HPDL2416 include an expanded 128 ASCII character set, internal 8-level dimming control and external dimming capability, and individual digit blanking. Choice of two colours.

H=20.07, W=25.15, D=6.60
 Characters: H=5.08, W=3.43, Spacing=6.35
 Pin spacing=2.54, Row spacing=15.24

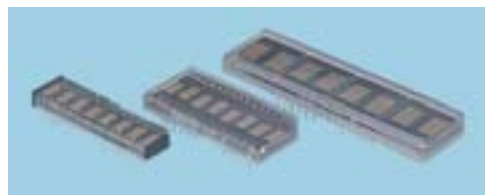
Supply voltage (typ) 5.0V
 Data set up time 50ns
 Data hold time 40ns
 Typ. luminous intensity/character (19 dots ON) HE Red 3.5 mcd, Green 5.6 mcd.
 I_{cc} typ @ 25°C (4 characters x 20 dots/char) 125mA (red), 110mA (others)

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Colour	Mfrs. List No.	Order Code	Price Each			
			1+	10+	100+	500+
HE Red	HDL0-2416	117-5586	1,518.00	1,144.00	944.00	836.00
Green	HDLG-2416	117-5587	1,518.00	1,144.00	944.00	836.00

4.57mm, 4.81mm and 6.96mm –

8 Character Dot Matrix



Designed for standard microprocessor interface techniques. Built-in LED drive circuitry. Programmable features include multi-level dimming and blanking.

Series	H	W	D	Package	Spacing	
					Pin	Row
5mm	19.6	42.6	5.3	28 pin DIP	2.54	15.24
7mm	19.4	70.9	6.6	28 pin DIP	2.54	15.24
5mm Compact	11.4	42.9	5.3	30 pin DIP	2.54	7.62
5mm Compact - Serial Input	11.4	42.9	5.3	26 pin DIP	2.54	7.62
Character height (typ.)	4.81mm (5mm), 6.96mm (7mm), 4.57mm (5mm Compact)					
Character spacing	5.26mm, (5mm), 8.84mm (7mm), 5.36mm (5mm Compact)					
Supply voltage (typ.)	5.0V					
Typ. Lum. intensity/character (all HDSP Series)	HE Red, Green 7.5 mcd (character average) AlGaAs Red 25.0 mcd (character average)					
Typ. Lum. intensity/LED (HCMS Series)	AlGaAs red 0.230 mcd (character average) Green 0.114 mcd (character average)					
I _{cc} typ @ 25°C (All HDSP Series)	HE Red, Green 300mA (8 characters 20 dots/char.) AlGaAs Red 330mA (8 characters 20 dots/char.)					
Peak pixel current (typ. @ 25°C) (HCMS Series)	HE Red, Green 14.0mA (all pixels ON) AlGaAs Red 15.4mA (all pixels ON)					

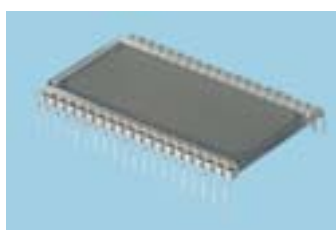
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Colour	Mfrs. List No.	Order Code	Price Each			
			1+	10+	100+	500+
5mm						
HE Red	HDSP-2112	117-5588	2,424.00	1,898.00	1,661.00	1,446.00
Green	HDSP-2113	117-5589	2,424.00	1,898.00	1,661.00	1,446.00
7mm						
HE Red	HDSP-2502	117-5570	3,008.00	2,453.00	2,146.00	1,869.00
Green	HDSP-2503	117-5571	2,868.00	2,246.00	1,966.00	1,712.00
5mm Compact						
Red	HDSP-2534	117-5572	3,086.00	2,417.00	2,115.00	1,842.00
Green	HDSP-2533	117-5573	2,511.00	1,967.00	1,721.00	1,499.00
5mm Compact - Serial Input						
Green (574nm)	HCMS-2903	114-5047	1,764.00	1,411.00	1,282.00	1,138.00
Red (637nm)	HCMS-2905	114-5048	2,058.00	1,646.00	1,497.00	1,328.00
Green (574nm)	HCMS-2913	114-5049	2,810.00	2,248.00	2,043.00	1,813.00
Red (637nm)	HCMS-2915	114-5050	3,231.00	2,584.00	2,350.00	2,084.00
Green (574nm)	HCMS-2973	114-5043	2,460.00	1,993.00	1,744.00	1,519.00
Red(637nm)	HCMS-2975	114-5045	2,508.00	1,964.00	1,719.00	1,496.00

Liquid Crystal Displays

Reflective & Transflective

VARITRONIX



7-segment field effective liquid crystal displays available as Reflective or Transflective. Visible in direct sunlight as well as in low light applications. They are supplied with fixed pin DIL connections with 0.1" centres, they insert directly into a PCB or socket strips. Black segments on grey background. The Transflective LCDs have similar characteristics to the Reflective LCDs except they may be backlit.

Digits	Character Height	Overall Dim.	Row Space	Mfrs. List No.	Order Code
Reflective					
3.5	8.9	51.5 x 22	24.5	VI301-DPRC	118-3158
3.5	12.7	50.8 x 30.5	33	VI302-DPRC	118-3159
3.5	12.7	50.8 x 30.5	33	VI303-DPRC	118-3160
3.5	17.8	70 x 38.1	40.6	VI315-DPRC	118-3161
3.5	25.4	93.85 x 45.72	48.2	VI320-DPRC	118-3162
4	8.9	51.5 x 22	24.5	VI401-DPRC	118-3164
4	12.7	50.8 x 30.5	33	VI402-DPRC	118-3165
4	17.8	70 x 38.1	40.6	VI415-DPRC	118-3166
4	25.4	93.85 x 45.72	48.2	VI421-DPRC	118-3167
4.5	8.9	51.5 x 22	24.5	VI514-DPRC	118-3168
4.5	10.2	50.5 x 30.5	33	VI502-DPRC	118-3169
4.5	15.2	70 x 38.1	40.6	VI510-DPRC	118-3170
6	12.7	70 x 30	32.5	VI602-DPRC	118-3171
6	17.8	93.85 x 38.1	40.6	VI607-DPRC	118-3172
8	12.7	93.85 x 30.5	33	VI804-DPRC	118-3173
6	12.7	69.8 x 30.48	33	VI602-DP-FC-S	118-3185
Transflective					
3.5	12.7	50.8 x 30.5	33	VI303-DP-FC-S-LV	118-3144
3.5	12.7	50.8 x 30.5	33	VI302-DP-FC-S-LV	118-3145
4	12.7	50.8 x 30.5	33	VI402-DP-FC-S-LV	118-3146
4	17.8	69.85 x 38.1	40.6	VI415-DP-FC-S-LV	118-3147

Operating voltage Min. 3V, typ. 5V, max.6Vrms Supply current Typ. 5µA/digit
 Operating frequency 32Hz Operating temperature -10°C to +60°C

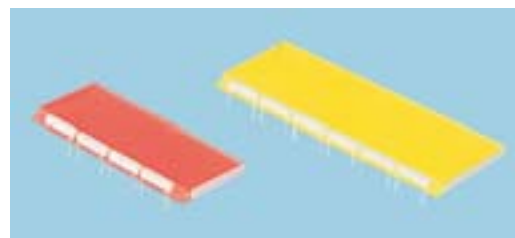
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No. of digits	Character Height	Order Code	Price Each			
			1+	10+	25+	100+
Reflective						
3.5	8.9	118-3158	702.00	611.00	475.00	258.00
3.5	12.7	118-3159	468.00	407.00	379.00	295.00
3.5	12.7	118-3160	453.00	396.00	387.00	274.00
3.5	17.8	118-3161	1,485.00	1,028.00	809.00	547.00
3.5	25.4	118-3162	2,199.00	1,811.00	1,188.00	971.00
4	8.9	118-3164	702.00	526.00	421.00	258.00
4	12.7	118-3165	434.00	397.00	359.00	274.00
4	17.8	118-3166	758.00	665.00	642.00	547.00
4	25.4	118-3167	1,488.00	1,155.00	971.00	—
4.5	8.9	118-3168	655.00	490.00	391.00	258.00
4.5	10.2	118-3169	522.00	457.00	416.00	274.00
4.5	15.2	118-3170	2,199.00	1,186.00	1,100.00	971.00
6	12.7	118-3171	740.00	647.00	607.00	485.00
6	17.8	118-3172	1,899.00	1,446.00	1,192.00	789.00
8	12.7	118-3173	1,829.00	1,476.00	1,213.00	759.00
6	12.7	118-3185	744.00	646.00	571.00	504.00
Transflective						
3.5	12.7	118-3144	675.00	566.00	504.00	284.00
3.5	12.7	118-3145	468.00	407.00	388.00	284.00
4	12.7	118-3146	437.00	384.00	352.00	308.00
4	17.8	118-3147	758.00	662.00	601.00	562.00

LED Backlight Panels

LED Backlight Panels

LED TECHNOLOGY



Order Codes	Overall Area	Active Area
120-8878	47.5 x 17.0	47.5 x 14.5
120-8879	48.7 x 23.3	48.7 x 20.8
120-8880	48.7 x 23.3	48.7 x 20.8
120-8881	67.0 x 28.5	67.0 x 26.0

Thickness=3.0, all tolerances=±0.3

A range of LED backlight panels designed for use with 3½ and 4 digit standard transflective numeric LCDs. The coloured acrylic panels are edge-lit. The LED pins are on a 2.54mm pitch for connection to a simple drive circuit on the user's PCB. The system will operate from a dc supply of 5V or higher with low current consumption. Supplied with full instructions.