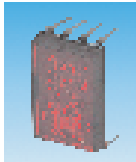
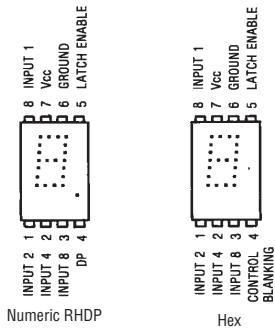


LED Displays with Integral Logic — Continued

7.4mm (0.29") Numerical and Hexadeximal



H = 14.0, W = 10.2, D = 2.8
Pin spacing = 2.54
Row spacing = 15.2



4 7 dot matrix numeric and hexadecimal LED indicators with 0.29" (7.4mm) character height which incorporate an on-board IC that contains the data memory, decoder and display driver functions.

The numeric device decodes positive BCD logic into characters '0 - 9' a '—' sign, decimal point and a test pattern. The hexadecimal device decodes positive BCD logic into 16 characters '0 - 9' and 'A - F'. An input is provided on the hexadecimal device to blank the display (all LED's off) without losing the contents of the memory.

Recommended supply voltage 4.5V - 5.5V Supply current max. with 5 and DP illum. 170mA
 Operating temperature (case) -20°C to +85°C Typ luminous intensity per segment 0.07mcd
 Mfrs. List No. 5082-7300 = 324-991, 5082-7340 = 325-016

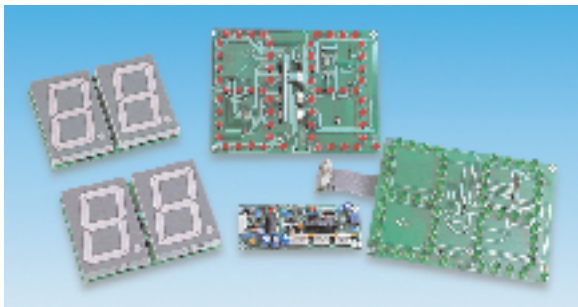
OPT38

Format	Colour	Order Code	1+	10+	100+	Price Each
Numeric, RHDP	Red	324-991				
Hex	Red	325-016				

LED Display Development Kit

57mm (2.24") and 100mm (4.0") with Driver, 2-Digitron

OPTO IMAGES



57mm: H = 73, W = 104, D = 35
 100mm: H = 100, W = 135, D = 31
 Controller Board H = 15, W = 90, D = 35
 M3 corner mounting posts

Large 2 digit 'master' LED displays with on-board serial driver power supply and bus interface circuitry, and end-stackable 2 digit 'slave' displays.

Master boards are CMOS compatible inputs with on board noise filters. The serial protocol is fully compliant with the MM5450N type driver (see SECTION 2.8).

The **Slave boards** are supplied with interface ribbon cable. Both devices use direct current drive and the LED brightness may be dimmed if needed.

The **Controller Boards** provide a simple method interfacing to RS232, SPI and pulse count serial buses, and contain an on-board character generator and driver software. The board requires a 12 volt DC supply. Each variant is supplied with a full data sheet.

Typ. Lum. Intensity/Segment
 57mm 60mcd
 100mm 200mcd
 Operating voltage 11-13.5V (nom. 12V)dc
 Current consumption 500mA max.

OPT297

Type	Colour	Order Code	1+	3+	5+	10+	25+	Price Each
57mm (2.24")								
Master	HE Red	636-770						
Master	Green	636-782						
Slave	HE Red	636-794						
Slave	Green	636-800						
100mm (4.0")								
Master	HE Red	636-812						
Master	Green	636-824						
Slave	HE Red	636-836						
Slave	Green	636-848						
Controller Boards								
RS232 Interface		636-745						
Pulse Count Interface		624-329						
SPI Interface		636-769						

Alphanumeric LED Displays

30mm (1.2") Dot Matrix



H = 39.2, W = 22.9, D = 8.0
 Pin spacing = 2.54, Row spacing = 33.0

Colour	Column Anode/Cathode	Lum Intensity/Seg @ I _F = 10mA (mcd)		Typ. V _F @ I _F = 20mA	V _R (max)	Order Code
		min	max			
HE Red	Anode	3.6	9.0	2.0	5	744-992
HE Green	Anode	3.6	9.0	2.2	5	745-005
Yellow	Anode	2.2	5.6	2.1	5	745-017

OPT435

Colour	Column Anode/Cathode	Order Code	Price Each			
			1+	25+	100+	500+
HE Red	Anode	744-992	4.29	3.33	3.21	3.12
HE Green	Anode	745-005	4.05	3.15	3.06	2.97
Yellow	Anode	745-017	4.47	3.45	3.36	3.24

50mm (2.0") Dot Matrix



H = 53.30, W = 38.5, D = 8.45
 Pin spacing = 2.54, Row spacing = 38.1

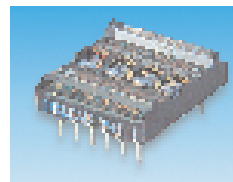


Colour	Column Anode/Cathode	Lum Intensity/Seg @ I _F = 10mA (mcd)		Typ V _F @ I _F = 20mA	V _R max	Order Code
		min	max			
HE Red	Anode	3.6	9.0	2.0	5	657-578
Ultra Red	Anode	9.0	31.0	1.85	5	657-566
Bi-Colour						
HE Red/Green	Cathode	3600/2200	9000/5600	2.0/2.2	5	946-965

OPT436

Colour	Column Anode/Cathode	Order Code	Price Each			
			1+	25+	100+	500+
HE Red	Anode	657-578				
Ultra Red	Anode	657-566				
Bi-Colour						
HE Red/Green		946-965				

2.85mm and 4.10mm - 4 Character, Intelligent Starburst



H W D
 20.10 17.50 6.10
 20.07 25.20 6.60

Pin Spacing	Row Spacing	Mfrs. List No.	Order Code
2.54	15.3	HPDL1414	325-089
2.54	15.3	HPDL2416	325-09

Red 4-character alphanumeric displays with built-in driver and memory, and multiplexing circuitry. TTL compatible and the display runs off a single +5V power supply. HPDL2416 has cursor function. Built-in buffer diodes protect display from ESD and prevent logic faults and burned out characters. No buffer memory needed.

	HPDL1414	HPDL2416
Character height	2.85mm	4.10mm
Character spacing	4.45mm	6.35mm
Access time @ 25°C	160ns	160ns
Typ. lum intensity/character (8 seg)	1.0mcd	1.25mcd
I _{c,typ.} @ 25°C (4 char's 10 seg/char.)	70mA	85mA

OPT47

Order Code	Price Each		
	1+	10+	100+
325-089			
325-090			