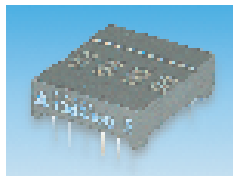


3.66mm, 4.57mm and 5.03mm – 4 Characters, Intelligent Dot Matrix



H	W	D	Pin Spacing	Row Spacing	Mftrs. List No.
20.3	17.8	6.1	2.54	15.24	DLR1414, DLG1414
20.3	25.4	6.6	2.54	15.24	DLR2416
10.16	19.91	5.08	2.54	7.62	SLR2016, SLG2016

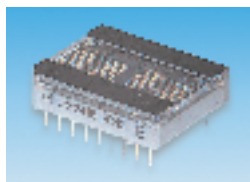
Driven by integral CMOS IC with built-in memory, character generator, multiplex and LED drive circuitry. Solid epoxy construction ensures excellent optical and aesthetic qualities.

	DLR1414 DLG1414	DLR2416	SLR2016 SLG2016
Character height	3.66mm	5.03mm	4.57mm
Character spacing	4.45mm	6.35mm	5.00mm
Supply voltage (typ.)	5.0V	5.0V	5.0V
Access time @ 25°C	110ns	110ns	110ns
Typ. lum. intensity/LED	50µcd	60µcd	50µcd
	70µcd	—	75µcd
I _{cc} typ @ 25°C (4 character 20 dots/char)	80mA	110mA	80mA

OPT220

Colour	Mftrs. List No.	Order Code	1+	10+	25+	100+	250+
Red	DLR1414	.212-398					
Green	DLG1414	.212-404					
Red	DLR2416	.212-416					
Red	SLR2016	.481-464					
Green	SLG2016	.481-476					

5.08mm – 4 Character, Intelligent Dot Matrix



Four character 5 7 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 three 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

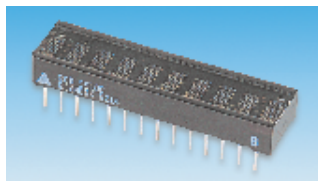
Supply voltage (typ.)	5.0V
Data set up time	50ns
Data hold time	40ns
Typ. luminous intensity/character (19 dots ON)	Red 1.1 mcd, HE Red 3.5 mcd, Green 5.6 mcd.

I_{cc} typ @ 25°C (4 characters 20 dots/char) 125mA (red), 110mA (others)

OPT166

Colour	Mftrs. List No.	Order Code	1+	10+	25+	100+	250+
Red	HDLR2416	325-120					
HE Red	HDLO2416	325-132					
Green	HDLG2416	325-144					

3.68mm – 10 Characters, Intelligent Dot Matrix



H = 10.0,
W = 38,
10, D = 5.08
Pin spacing = 2.54
Row spacing = 7.62

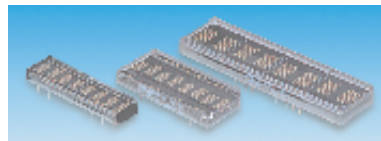
Ten character 5 5 dot matrix, serial input displays, driven by in-built 250 bit CMOS RAM, with on-board decoders, multiplexers and LED drivers. Low profile rugged package is viewable up to 1.8m, with a wide viewing angle. The displays feature 8 dimming levels, standby mode (<250µW), hardware/software clear function, lamp test, internal/external clocking, 3.3V capability, and are end stackable.

Character height	3.68mm	Data input rate	5MHz
Character spacing	3.81mm	Typ. lum. intensity	Red 1.8 mcd (typ) Green 5.4 mcd (typ)
Supply voltage (typ.)	5.0V	I _{cc} typ. @ 25°C (10 digits 16 dots/char)	365mA
Viewing angle X axis	±55°	Operating temperature	-40°C to +85°C
Y axis	±65°		

OPT266

Colour	Mftrs. List No.	Order Code	1+	10+	25+	100+	250+
Red	SCD55100	.481-373					
Green	SCD55103	.481-385					

4.57mm, 4.81mm and 6.96mm – 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)	7.5 mcd (character average)					
HE Red, Green	25.0 mcd (character average)					
AlGaAs Red						
Typ. Lum. intensity/LED (HCMS Series)	0.230 mcd (character average)					
AlGaAs Red	0.114 mcd (character average)					
Green						
I _{cc} typ @ 25°C (All HDSP Series)	300mA (8 characters 20 dots/char.)					
HE Red, Green	330mA (8 characters 20 dots/char.)					
AlGaAs Red						
Peak pixel current (typ. @ 25°C) (HCMS Series)	14.0mA (all pixels ON)					
HE Red, Green	15.4mA (all pixels ON)					
AlGaAs Red						

OPT178

Colour	Mftrs. List No.	Order Code	1+	10+	25+	100+	250+
5mm							
HE Red	HDSP2112	325-168					
Green	HDSP2113	325-170					
7mm							
HE Red	HDSP2502	265-585					
Green	HDSP2503	265-603					
5mm Compact							
AlGaAs Red	HDSP2534	280-409					
Green	HDSP2533	280-410					
5mm Compact – Serial Input							
AlGaAs Red	HCMS2975	280-434					
Green	HCMS2973	280-446					

Vertical Format Intelligent Displays 10 Character, Dot Matrix



H = 38, W = 10, D = 5

- Built-in CMOS decoder, multiplexer, RAM and LED drivers
- No support IC's required
- Slimline 28 pin DIL package
- Fully dot addressable font
- 8 software controlled brightness levels
- 250µW power down mode
- Ideal for hand held and portable equipment
- Fully X/Y stackable
- Wide viewing angle ±65°
- 3.3V capability
- 3.7mm character height

A 10 character 5 5 dot matrix serial loading intelligent display with a fully dot addressable font, incorporating on board RAM, multiplexers and LED drivers.

OPT586

Colour	Mftrs. List No.	Order Code	1+	10+	25+	100+	250+
HE Red	SCDV5542	142-487					
Green	SCDV5543	142-499					