

PCB Mounting LEDs

90° mounting PCB or card status indicators fitted with a choice of three sizes of LED element. Vertical configurations include single and multiplex units and horizontally mounting, one way through eight way, side stacking arrays. Options include multi-colour permutations, bi-colours and integral resistor models which are directly compatible with TTL and CMOS drive circuits. Customer benefits include savings on board space and assembly time. Reduced power consumption is a feature of low current PCB LED indicators.

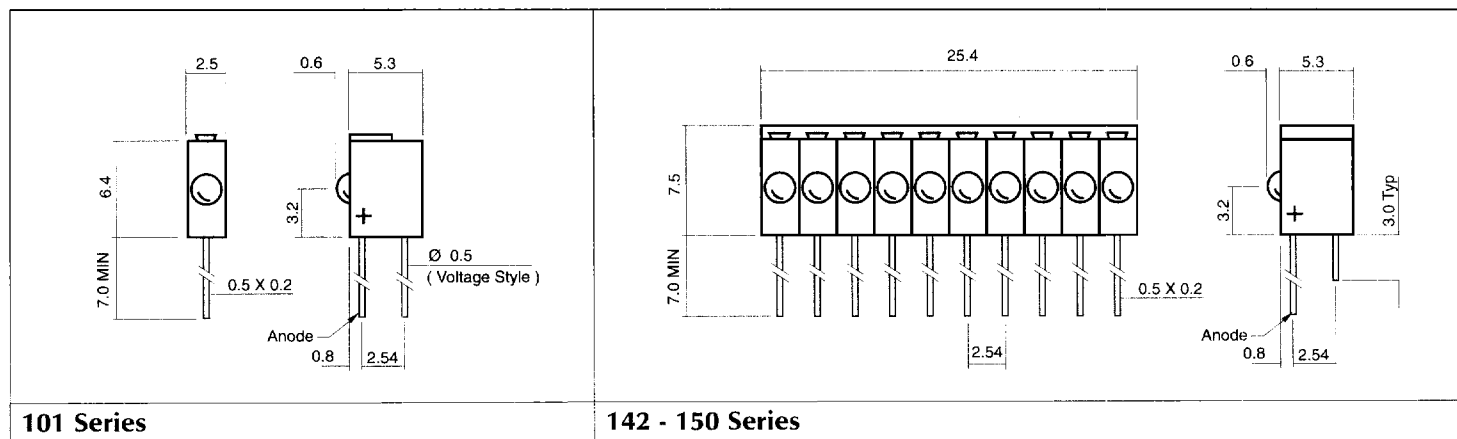
Discrete Hi-Intensity LEDs

Ø 3 & 5mm

Size	Order Code	Colour	Wavelength	Luminous Intensity mcd	Forward Current If	Viewing Angle	Typ. Forward Voltage	Operating Temperature
3mm	100007	Red	660	1200 - 1400	20	50	1.85	-40 to +85
	100038	Yellow	595	100 - 400	20	50	1.8	-30 to +85
	100009	Green	565	100 - 300	20	50	2.2	-40 to +85
	100047	Green	525	2000 - 3400	20	15	3.5 to 4.0	-20 to +80
	100044	Blue	470	600 - 1000	20	15	3.6 to 4.0	-20 to +80
5mm	110069	Red	660	2000 - 3500	20	30	1.85	-40 to +85
	110070	Yellow	595	700 - 2700	20	30	1.8	-30 to +85
	110025	Green	565	100 - 300	20	30	2.2	-40 to +85
	110104	Green	525	3000 - 5000	20	15	3.5 to 4.0	-20 to +80
	110106	Blue	470	900 - 1500	20	15	3.6 to 4.0	-20 to +80
			nm	mcd	mA	deg	Vdc	°C

PCB Mounting LEDs

Ø 2mm



101 Series

142 - 150 Series

Drawing scale 2:1
Dimensions in mm (Typical)
MTBF 100,000 Hours

Operating / Storage Temperature Range -40 to +80 °C

Order Code: **144 - 214 - 02**

Series Options:

101 - 1 WAY	146 - 6 WAY
142 - 2 WAY	147 - 7 WAY
143 - 3 WAY	148 - 8 WAY
144 - 4 WAY	149 - 9 WAY
145 - 5 WAY	150 - 10 WAY

LED Options:

Code - LED Colour / Intensity at 10mA

205 - RED 635 nm	3 mcd
211 - YELLOW 585 nm	3 mcd
214 - GREEN 563 nm	3 mcd

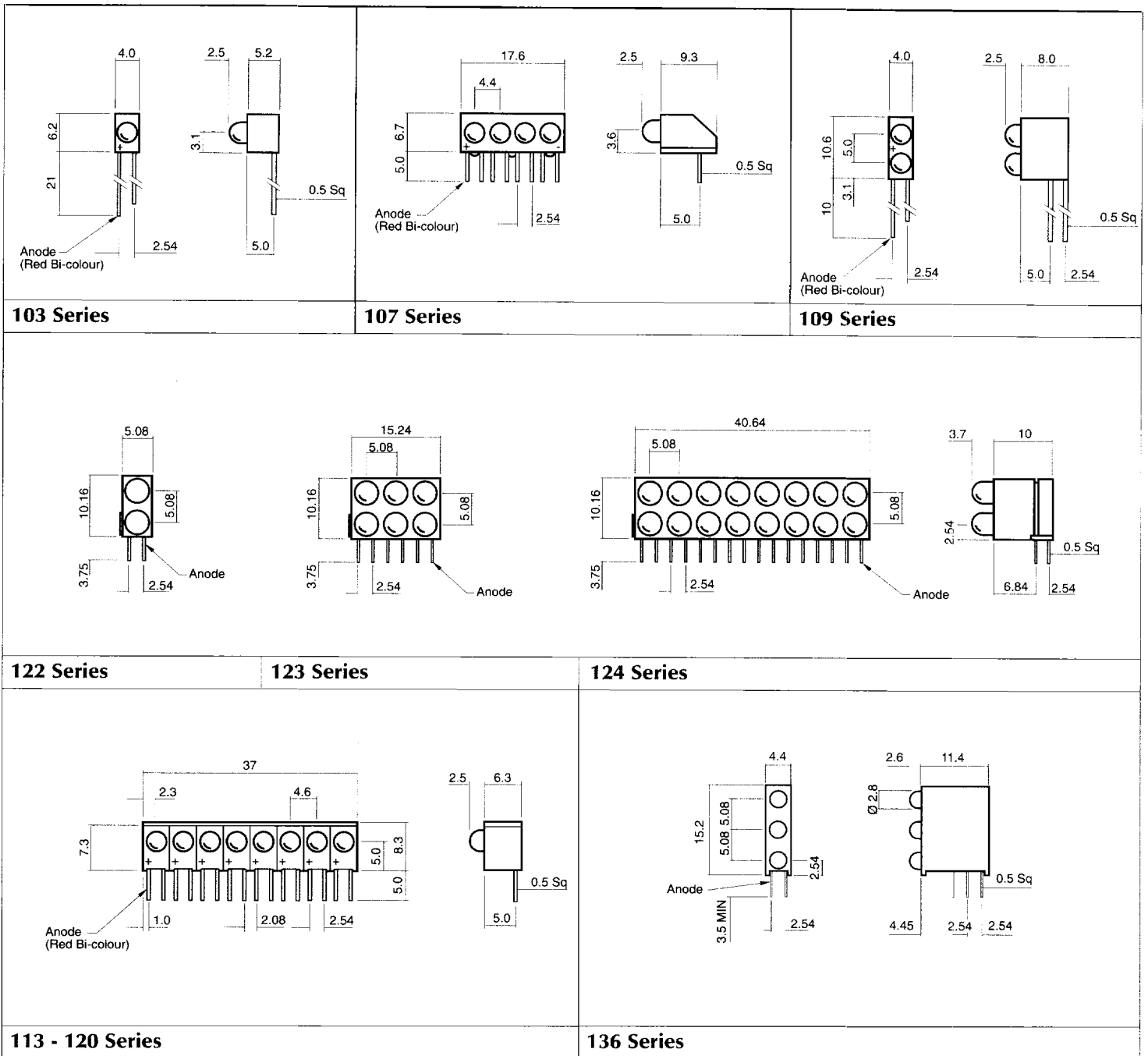
Voltage Options:

Code - Voltage / Current

01 - 1.9 Vdc @ 2 mA
02 - 2.1 Vdc @ 10 mA
20 - 5 Vdc @ 7 mA

PCB Mounting LEDs

Ø 3mm



Drawing scale 1:1
Dimensions in mm (Typical)
MTBF 100,000 Hours

Operating / Storage Temperature Range -40 to +80 °C

Order Code: **124 - 305 - 04**

Series Options:

- 103 118 (6 Way)
- 107 119 (7 Way)
- 109 120 (8 Way)
- 113 (1 Way) 122
- 114 (2 Way) 123
- 115 (3 Way) 124
- 116 (4 Way) 136
- 117 (5 Way)

LED Options:

Code - LED Colour / Intensity at 20 mA

- 305 - RED 635 nm 33 mcd
- 311 - YELLOW 585 nm 33 mcd
- 314 - GREEN 563 nm 47 mcd
- 330 - RED/GREEN Bi colour 12 mcd
- 635/565 nm

330 LED not available on 122, 123 & 124 Series

Voltage Options:

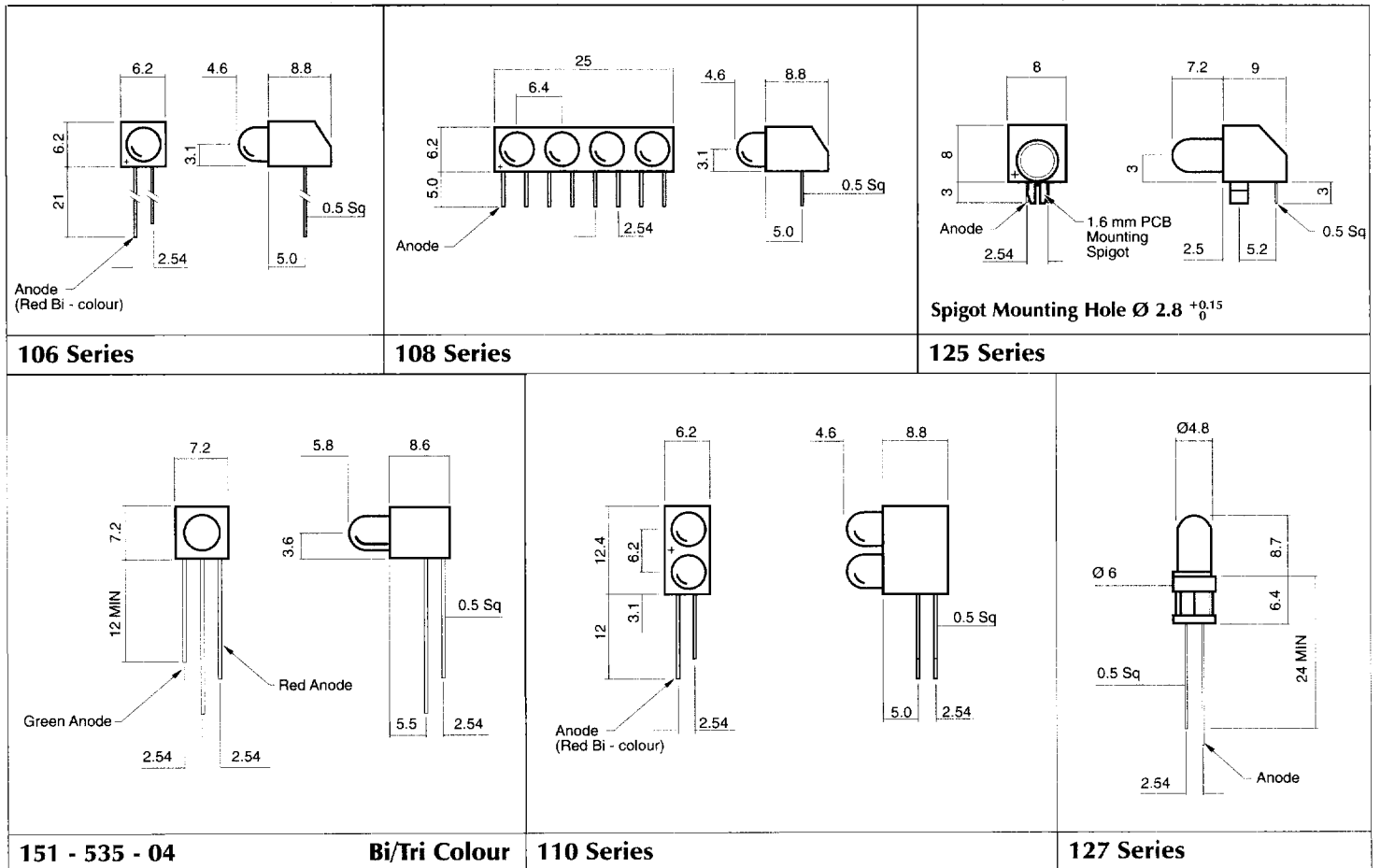
Code - Voltage / Current

- 01 - 1.9 Vdc @ 2 mA
- 04 - 2.2 Vdc @ 20 mA

5 Volt options available

PCB Mounting LEDs

Ø 5mm



Drawing scale 1:1
Dimensions in mm (Typical)
MTBF 100,000 Hours

Operating / Storage Temperature Range -40 to +80 °C

Order Code: **124 - 305 - 04**

Series Options:

- 106
- 108
- 110
- 125
- 127
- 151

LED Options:

Code - LED Colour / Intensity at 20 mA

- 505 - RED 635 nm 33 mcd
 - 511 - YELLOW 585 nm 33 mcd
 - 514 - GREEN 563 nm 68 mcd
 - 530 - RED/GREEN Bi colour 12 mcd
 - 535 - 635/565 nm
- 535 LED only available in 151 Series

Voltage Options:

Code - Voltage / Current

- 01 - 1.9 Vdc @ 2 mA
- 04 - 2.2 Vdc @ 20 mA

5 & 12 Volt options available

PCB Mounting LEDs - Housing Material

Technical Information

All series except
122, 123 and 124

Nylon 66. This material exhibits versatile electrical and mechanical properties making it well suited for a wide range of environments. UL94 V-O material available.

122, 123 and 124 Series

Polycarbonate. This material offers UL94 V-O flame retardancy and a high impact strength.

Lead Cropping

Should lead cropping be required Marl offer two standard lengths, by adding one of the following codes to the end of the part number: **24 = 3mm; 26 = 5mm**
Example: 103-305-01-**24** (here the last two digits indicate 3mm lead cropping)
Other non-standard lead lengths are available on request.