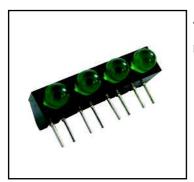


PCB MOUNTING LEDs - Ø 5mm

FEATURES



108 SERIES

PACK QUANTITY = 100 PIECES

- Material conforms to UL94 V-O flammability ratings
- Ideal for status indication, mounted on edge of card
- Reverse polarity options available
- Customised multi-colour permutations available
- Product illustrated 108-514-04
- Typically available ex stock

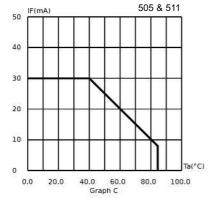
SPECIFICATIONS

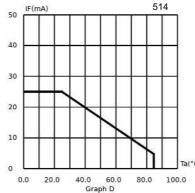
Ordering Information & Typical Technical Characteristics (Ta = 25°C)

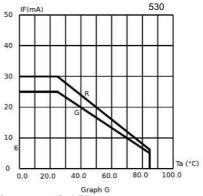
Mean Time Between Failure up to = 100,000 Hours. Luminous intensity figures refer to the unmodified discrete LED.

PART NUMBER	COLOUR	LENS	VOLTAGE DC Vopr	CURRENT DC lopr	LUMINOUS INTENSITY Iv@20mA	WAVE LENGTH λρ	OPERATING TEMP Topr	STORAGE TEMP Tstg	RoHS 2002/95/EC
STANDARD INTENSITY									2002/35/60
108-505-04	Red	Colour Diffused	2.0*	20	60	627	-40 ~ +85^	-40 ~ +85	Yes
108-511-04	Yellow	Colour Diffused	2.1*	20	40	590	-40 ~ +85^	-40 ~ +85	Yes
108-514-04	Green	Colour Diffused	2.2*	20	40	565	-40 ~ +85^	-40 ~ +85	Yes
108-530-04	Red/Green	White Diffused	2.0/2.2*	20	30/25	627/565	-40 ~ +85^	-40 ~ +85	Yes
108-581-20	Red 0	Colour Diffused	5	10	50@10mA	627	-40 ~ +70	-40 ~ +85	Yes
108-582-20	Yellow	Colour Diffused	5	10	20@10mA	590	-40 ~ +70	-40 ~ +85	Yes
108-583-20	Green	Colour Diffused	5	10	20@10mA	565	-40 ~ +70	-40 ~ +85	Yes
UNITS			Vdc	mA	mcd	nm	oC	°C	

^{* =} Voltage DC for 20mA product is Vf@20mA, not Vopr







^ = Products must be derated according to the derating information. Each derating graph refers to specific LEDs.

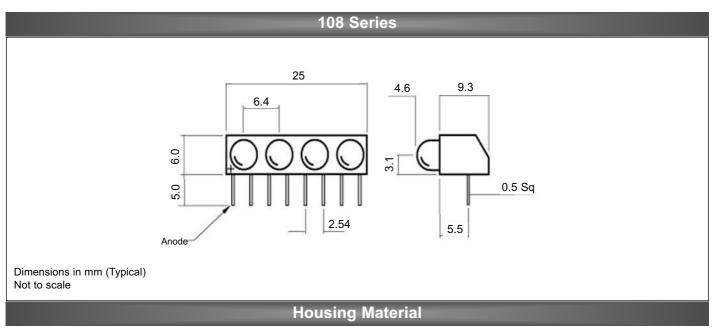
How to Order:

website: www.marl.co.uk • email: sales@marl.co.uk •

• Telephone +44 (0)1229 582430 • Fax: +44 (0)1229 585155

The information contained in this datasheet does not constitute part of any order or contract and should not be regarded as a representation relating to either products or service. Marl International reserve the right to alter without notice the specification or any conditions of supply for products or service.





Polycarbonate

This material offers UL94 V-0 flame retardancy* and a high impact strength. This material has a melt point of xx°C and is suitable for use in the majority of automatic soldering processes.

*Material test thickness 1.6mm

LEDs

LED Polarity

Anode identification is shown in the dimensional diagram. The long lead of a non-cropped unit can also be used to help identify the anode. For the 2 pin Bi-colour units the standard colour configuration is red anode to the '+' sign.

Reverse Polarity

This is offered on all PCB units, with the exception of the 125 series, if requested to help overcome the problem of systems with reverse polarity connections. Multiple units can also be supplied in reverse polarity but not with mixed polarities. The 2 pin and 3 pin Bi-colours can be supplied in reverse colour configuration.

Bi-colour

2 Pin Operation

To acheive the second colour for a 2 pin Bi-colour unit the supply must be reversed, standard colour configuration for these units is red anode to the '+' sign.

Electro-static Discharge (ESD)

Build up of electrostatic discharge occurs in many situations involving people moving and handling products. The range of possible situations is very diverse but voltage levels as high as several thousand volts can and do arise in many individual situations. When an operator charged up to these levels handles a 'static sensitive device', there is a very probable likelihood that the device will be irreversibly damaged. It is essential that precautions are taken at all stages during manufacture and assembly of these products. Although LEDs were never considered to be static sensitive devices, changes in manufacturing technology and materials used to produce higher intensityproducts over a large range of the wavelength spectrum have changed this. Marl has an approved system of ESD control from goods in, through production and into final packing and despatch. We recommend all users of LED based products follow the guidelines of BS 100015.

Note: All luminous intensity figures refer to the unmodified discrete LED.

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108 Series

Part numbers also available in the 108 Series:

DADT NO	0010110	LVOLTAGE DO		
PART NO.	COLOUR	VOLTAGE DC		
	(Vdc) Vopr			
108-000-01-50	RGRG**	2mA		
108-000-04-50	YYYG	20mA		
108-000-04-55	GGblankR	20mA		
108-000-04-59	RGYB	20mA		
108-000-04-60	BYRG	20mA		
108-000-04-61	RGGR	20mA		
108-000-20-50	RGRG	5Vdc		
108-305-01	Red	2mA		
108-305-04	Red	20mA		
108-305-04-50	Red	20mA		
108-305-04-51	Red	20mA		
108-305-04-52	Red	20mA		
108-305-04-53	Red	20mA		
108-305-04-54	Red	20mA		
108-311-01	Yellow	2mA		
108-311-04	Green	20mA		
108-314-01	Green	2mA		
108-314-04	Green	20mA		
108-330-04	Red/Green	20mA		
UNITS		VDC		

** = Multi-colour options are verified as example:

108-000-01-50



The products listed above illustrate all of the options available to order. These products may have custom modifications that alter their operation beyond the generic information contained within this datasheet. Please contact sales for further information.

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