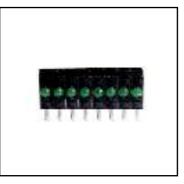


PCB MOUNTING LEDs - Ø 2mm

FEATURES



142-150 SERIES

PACK QUANTITY = 50 PIECES

- Housing conforms to UL94 V-O flammability ratings
- 2 to 10 way configurations
- Reverse polarity options available
- Multi-colour permutations available
- Product illustrated 148-214-02
- Typically available ex-stock

SPECIFICATIONS

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

Mean Time Between Failure = 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 λp	OPERATING TEMP Topr	STORAGE TEMP Tstg	RoHS
STANDARD INTENSITY										2002/95/60
142-205-02	Red	0	Colour Diffused	1.8	10	10	627	-55 ~ +100^	-55 ~ +100	Yes
142-211-02	Yellow		Colour Diffused	2.0	10	9	590	-55 ~ +100^	-55 ~ +100	Yes
142-214-02	Green		Colour Diffused	2.1	10	7	565	-40 ~ +100^	-55 ~ +100	Yes
142-205-20	Red	0	Colour Diffused	5	10	10	635	-55 ~ +100^	-55 ~ +100	Yes
142-211-20	Yellow		Colour Diffused	5	10	9	583	-55 ~ +100^	-55 ~ +100	Yes
142-214-20	Green		Colour Diffused	5	10	7	565	-40 ~ +100^	-55 ~ +100	Yes
UNITS				Vdc	mA	mcd	nm	0C	0C	





= Make up of Order Code 148 - 214 - 02

142 - (2 LED segment device) 143 - (3 LED segment device) 144 - (4 LED segment device) 145 - (5 LED segment device) 146 - (6 LED segment device)

147 - (7 LED segment device)

148 - (8 LED segment device)

149 - (9 LED segment device)

150 - (10 LED segment device)

For multi-array devices, replace initial 3 digits of part number to reflect the number of LED segments required.

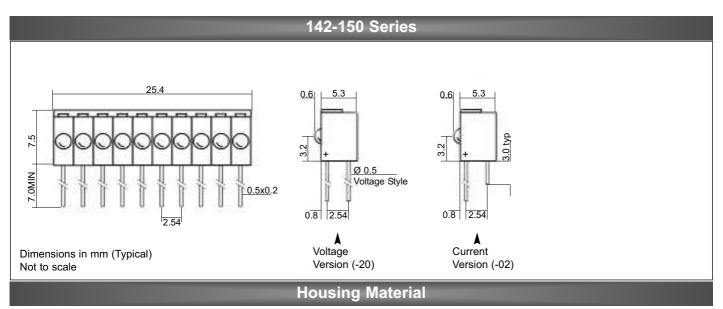
How to Order:

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 290-340°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.

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 intensity products 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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ALSO AVAILABLE

Part numbers also available in the 142-150 Series:

PART NO.	COLOUR	VOLTAGE DC
	(Vdc) Vopr	
142-205-01	Red	2mA
142-211-01	Yelllow	2mA
142-214-01	Green	2mA
143-205-02	Red	10mA
143-211-02	Yelllow	10mA
143-214-02	Green	10mA
144-203-20	Red	5/6Vdc
144-205-01	Red	2mA
144-205-02	Red	10mA
144-205-20	Red	5/6Vdc
144-209-02	Yelllow	10mA
144-211-01	Yelllow	2mA
144-211-02	Yelllow	10mA
144-211-20	Yelllow	5/6Vdc
144-212-02	Green	10mA
144-214-01	Green	2mA
144-214-02	Green	10mA
144-214-03	Green	17mA
144-214-20	Green	5/6Vdc
145-214-04	Green	20mA
UNITS		VDC

PART NO.	COLOUR	VOLTAGE DC	
	(Vdc) Vopr		
148-205-20	Red	5/6Vdc	
148-211-02	Yelllow	10mA	
148-211-20	Yelllow	5/6Vdc	
148-214-02	Green	10mA	
148-214-02-50	Green	10mA	
150-000-02-50**	RRRYYYYGGG	10mA	
150-205-04	Red	20mA	
150-205-20	Red	5/6Vdc	
150-214-01	Green	2mA	
150-214-02	Green	10mA	
UNITS		VDC	

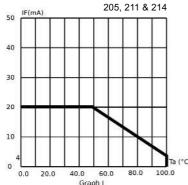
^{** =} Multi-colour options are verified as example:

150-000-02-50



These are customer specific and specially created part numbers. If you require more information or a specific part not detailed in the above list please contact sales for further information.

De-rating



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

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