



### FEATURES

- Ø12.7mm mounting
- RIA 12 approved
- Black anodised aluminium housing
- Sealed to IP67 - weatherproof
- Smoked lens
- Internal potting
- Reverse protection diode as standard

### BENEFITS

- Standard industrial mounting size
- Spike and transient protected
- Suitable for portable equipment
- Suitable for external applications
- Smoked lens gives high on/off contrast ratio
- Suitable for high vibration applications
- Prevents wrong polarity installation
- Outstanding reliability
- Vandal resistant

Marl Part Number	LED Colour	Typical Voltage DC Vopr	Max. Reverse Voltage	Typical Current Iopr	Typical LED Luminous Intensity	Typical LED Wavelength λp	Operating Temp ToPr *	Storage Temp Tstg
675-501-00-50	Red	70	1000	4	100	619	-40 to +75	-40 to +100
		Vdc	Vdc	mA	mcd	nm	°C	°C

### NOTES

Additional LED Colours, Voltage Options and Flying Lead lengths available for semi-custom projects. Please contact our Sales Team. All LED components are supplied in anti-static packaging.

\* Characteristics at Ta = 25°C. For operating temperature derating graphs, please refer to sheet 2.

To order please contact us on +44 (0) 1229 582 430

F +44 (0) 1229 585 155 | E sales@marl.co.uk | [www.leds.co.uk](http://www.leds.co.uk)

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Q 05480

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# 675 SERIES PANEL INDICATOR LED

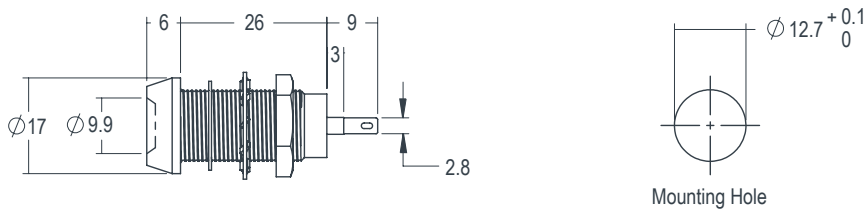
## TECHNICAL CHARACTERISTICS

Series	Max. Power Dissipation	Panel Cutout	Nut Mounting Torque	Min. Mounting Centres	Min. - Max. Panel Thickness
675	1000	12.7	1.0	19.5	1.5 - 8.0
	mW	mm	Nm	mm	mm

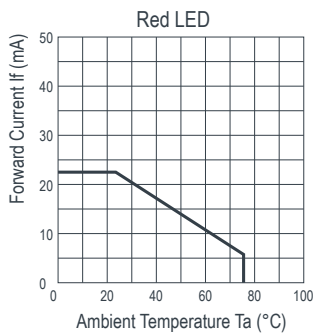
## TECHNICAL DRAWING

Weight (g): 12.6

Dimensions in mm (typical). Not to scale. Mounting hole to be clean and burr free. Anode termination indicated by red sleeve.



## DE-RATING GRAPHS



## MATERIALS

<b>Body</b>	Black Anodised Aluminium
<b>Nut</b>	Nickel Plated Brass
<b>Panel Seal</b>	Neoprene
<b>Lens</b>	Polycarbonate
<b>Encapsulation</b>	Black Polyurethane
<b>Lock Washer</b>	Spring Steel
<b>Termination</b>	Stainless Steel
<b>Header</b>	Nylon 66 A82

## DESIGN CONSIDERATIONS

### Electro-Static Discharge (ESD)

Build up of electro-static 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. Marl recommend all users of LED based products follow the guidelines of BS 100015.

### Voltage, Current and Temperature

The forward voltage / current value of an LED is dependent upon the ambient temperature of the environment in which

it is operated. Therefore, care must be taken to operate the LED at the correct voltage / current values, depending upon the ambient temperature.

Marl should be contacted if the device is to be operated outside the temperature range specified. Marl accept no liability for any product that is operated outside the stated voltage or temperature range.

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