# 508 SERIES
## PANEL INDICATOR LED

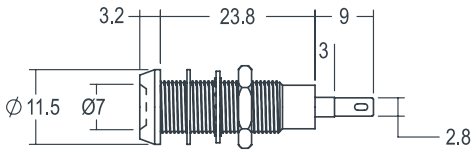
## TECHNICAL CHARACTERISTICS

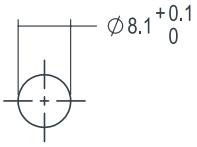
| Series | Max. Power Dissipation | Panel Cutout | Nut Mounting Torque | Min. Mounting Centres | Min - Max. Panel Thickness |
|---|---|---|---|---|---|
| 508 | 700 | 8.1 | 0.65 | 14.5 | 1.5 - 13.0 |
| | mW | mm | Nm | mm | mm |

## TECHNICAL DRAWING

Weight (g): 7.6

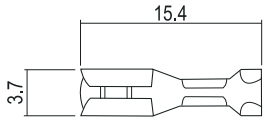
Dimensions in mm (typical). Not to scale. Mounting hole to be clean and burr free. Anode termination denoted by red sleeve.



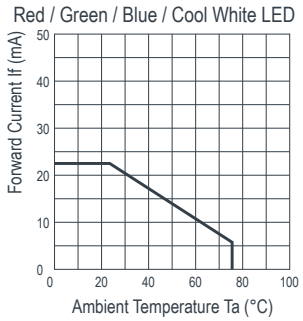

Mounting Hole

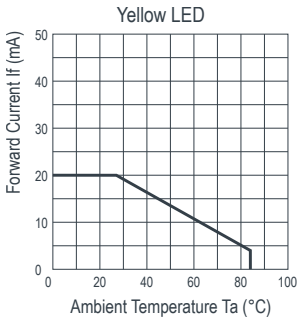
### PUSH ON CONNECTOR




925-000-00 is brass tin plated - for use with 508 series lamps. Dimensions in mm (typical). Not to scale.

## DE-RATING GRAPHS




## MATERIALS

| | |
|---|---|
| **Body** | Nickel Plated Brass |
| **Nut** | Nickel Plated Brass |
| **Panel Seal** | Viton |
| **Lens** | Polycarbonate |
| **Encapsulation** | Black Polyurethane |
| **Lock Washer** | Spring Steel |
| **Termination** | Silver Flash Coated Brass |

## 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 dispatch. MARL recommend all users of LED based products follow the current BSI guidelines for protection of electronic devices from electrostatic phenomena.

**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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