

## PROFESSIONAL LED INDICATORS Ø8.1mm Mounting

**698 SERIES**

PACK QUANTITY = 10 PIECES

**FEATURES**

- Each product will operate over a wide voltage input range
- Black anodised aluminium housing
- Full internal potting to resist shock and vibration
- Sealed to IP67
- True Bi-polar product for low voltage DC applications
- Other voltages including DC options available in this range

**SPECIFICATIONS**

Ordering Information &amp; 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<br>AC/DC<br>Vopr | CURRENT<br>DC (mA)<br>Iopr | LUMINOUS<br>INTENSITY<br>Iv@20mA (mcd) | WAVE<br>LENGTH<br>λp (nm) | OPERATING<br>TEMP<br>Topr | STORAGE<br>TEMP<br>Tstg |  |     |
|----------------|------------|-------------------------------------------------------------------------------------|--------------------------|----------------------------|----------------------------------------|---------------------------|---------------------------|-------------------------|--------------------------------------------------------------------------------------|-----|
| HIGH INTENSITY |            |                                                                                     |                          |                            |                                        |                           |                           |                         |                                                                                      |     |
| 698-501-63     | Red        |  | Smoked                   | 12-28                      | 6-16                                   | 11000                     | 643                       | -40 ~ +95^              | -40 ~ +100                                                                           | Yes |
| 698-521-63     | Yellow     |  | Smoked                   | 12-28                      | 6-16                                   | 16000                     | 591                       | -40 ~ +95^              | -40 ~ +100                                                                           | Yes |
| 698-532-63     | Green      |  | Smoked                   | 12-28                      | 6-16                                   | 23000                     | 527                       | -40 ~ +95^              | -40 ~ +100                                                                           | Yes |
| 698-930-63     | Blue       |  | Smoked                   | 12-28                      | 6-16                                   | 7000                      | 470                       | -40 ~ +95^              | -40 ~ +100                                                                           | Yes |
| 698-997-63     | Cool White |  | Smoked                   | 12-28                      | 6-16                                   | 14000                     | *see below                | -40 ~ +95^              | -40 ~ +100                                                                           | Yes |
| 698-501-75     | Red        |  | Smoked                   | 110Vac                     | 6                                      | 11000                     | 643                       | -40 ~ +95^              | -40 ~ +100                                                                           | Yes |
| 698-521-75     | Yellow     |  | Smoked                   | 110Vac                     | 6                                      | 16000                     | 591                       | -40 ~ +95^              | -40 ~ +100                                                                           | Yes |
| 698-532-75     | Green      |  | Smoked                   | 110Vac                     | 6                                      | 23000                     | 527                       | -40 ~ +95^              | -40 ~ +100                                                                           | Yes |
| 698-930-75     | Blue       |  | Smoked                   | 110Vac                     | 6                                      | 7000                      | 470                       | -40 ~ +95^              | -40 ~ +100                                                                           | Yes |
| 698-997-75     | Cool White |  | Smoked                   | 110Vac                     | 6                                      | 14000                     | *see below                | -40 ~ +95^              | -40 ~ +100                                                                           | Yes |
| UNITS          |            |                                                                                     | Vac/Vdc                  | mA                         | mcd                                    | nm                        | °C                        | °C                      |                                                                                      |     |

^ = Products must be derated according to the derating information. Each derating graph refers to specific LEDs. Refer to page 3.

|               |                                     |       |       |       |
|---------------|-------------------------------------|-------|-------|-------|
| <b>997F-C</b> | *Typical emission colour cool white |       |       |       |
| x             | 0.245                               | 0.361 | 0.356 | 0.264 |
| y             | 0.229                               | 0.385 | 0.351 | 0.220 |

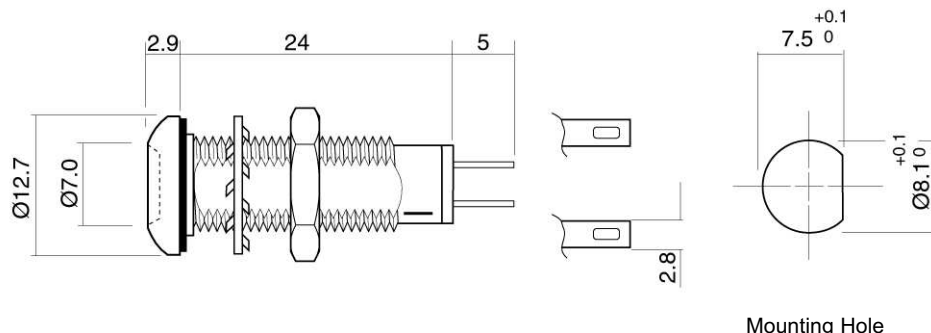
Intensities (Iv) and colour shades of white (x,y co-ordinates) may vary between LEDs within a batch.

**How to Order:**website: [www.marl.co.uk](http://www.marl.co.uk) • email: [sales@marl.co.uk](mailto:sales@marl.co.uk) •

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

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## 698 Series



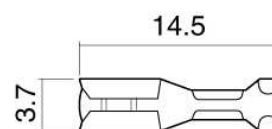
Dimensions in mm (Typical)  
Not to scale

Mounting hole to be clean and burr free

## MATERIALS

|               |                                     |
|---------------|-------------------------------------|
| Body          | Aluminium grade 6063 black anodised |
| Nut           | Stainless Steel grade 303           |
| Panel Seal    | Viton                               |
| Termination   | Copper with silver flash finish     |
| Lock Washer   | Zinc plated steel                   |
| Fresnel lens  | Polycarbonate                       |
| Encapsulation | PC5430                              |
| Header        | Nylon6 A82                          |

## PUSH-ON CONNECTORS



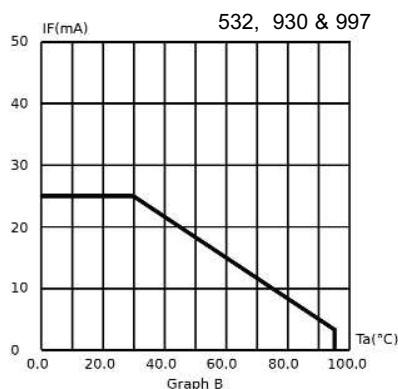
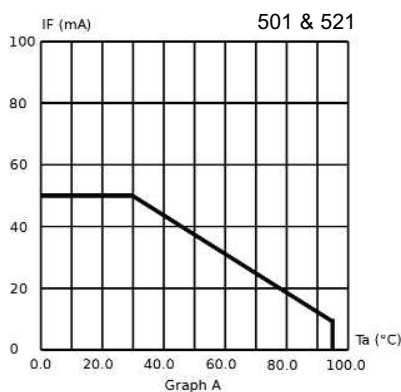
925-000-00 is brass tin plated.  
For use with 698 series lamps.

Dimensions in mm (Typical)  
Not to scale

## TECHNICAL CHARACTERISTICS

| SERIES | MAXIMUM POWER DISSIPATION | PANEL CUTOUT | NUT MOUNTING TORQUE | MINIMUM MOUNTING CENTRES | MIN/MAX. PANEL THICKNESS |  |
|--------|---------------------------|--------------|---------------------|--------------------------|--------------------------|--|
| 698    | 825                       | 8.1          | 0.65                | x,y=14.5                 | 1.5-13.0                 |  |
|        | mW                        | mm           | Nm                  | mm                       | mm                       |  |

## DERATING INFORMATION



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