695 SERIES
PANEL INDICATOR LED

FEATURES

- Ø12.7mm (½") mounting
- Natural anodised aluminium housing
- Sealed to IP67 - weatherproof
- Wide viewing angle - smoked lens
- Internal potting
- Reverse protection diode fitted as standard
- Range of LED colour options
- Range of voltage options

BENEFITS

- Standard industrial mounting size
- Suitable for portable equipment
- Suitable for external applications
- Smoked lens gives good on/off contrast ratio
- Suitable for high vibration applications
- Protects against wrong polarity installation
- Suitable for status panel indication
- Manufactured with internal resistor
- Outstanding reliability
- Vandal resistant

MARL Part Number	LED Colour	Typical Voltage Vopr	Typical Current DC Iopr	Typical LED Luminous Intensity	Typical LED Wavelength λp	Operating Temp Topr *	Storage Temp Tstg
695-501-21	Red	12	19	458	619	-40 to +75	-40 to +100
695-521-21	Yellow	12	19	440	585	-40 to +75	-40 to +100
695-930-21	Blue	12	20	452	520	-40 to +75	-40 to +100
695-501-23	Red	24-28	16-19	346-458	619	-40 to +75	-40 to +100
695-521-23	Yellow	24-28	16-19	330-440	585	-40 to +75	-40 to +100
695-532-23	Green	24-28	13-16	1360-1815	520	-40 to +75	-40 to +100
695-930-23	Blue	24-28	15-18	364-452	468	-40 to +75	-40 to +100
695-997-23	Cool White	24-28	15-18	1063-1359	See Below	-40 to +75	-40 to +100
		Vdc	mA	mcd	nm	°C	°C

Typical Emission Colours Cool White LED			
X	0.275	0.28	0.29
Y	0.27	0.28	0.30

OPTIONAL FLYING LEAD TERMINATORS

MARL Part No. Suffix	Wire Length	Wire Colours (DC)	Wire Colours (AC)	No/Diameter of Conductors	Diameter of Insulation	Wire Specification
695-501-21-**15**	150mm	Red - Anode Black - Cathode	Brown - Live Blue - Neutral	19/0.16mm	1.2mm	Type 44, 22 Gauge High Performance Wire
695-501-21-**19**	1000mm					

NOTES

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

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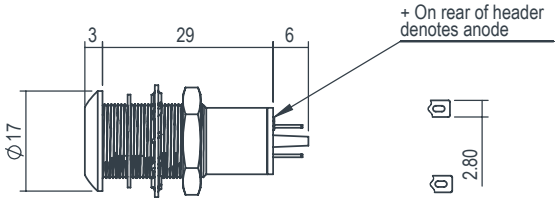
TECHNICAL CHARACTERISTICS

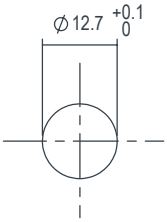
Series	Max. Power Dissipation	Max. Reverse Voltage	Panel Cutout	Nut Mounting Torque	Min. Mounting Centres	Min - Max. Panel Thickness
695	825	1000	12.7	1.0	19.5	2.0 - 10.0
	mW	V	mm	Nm	mm	mm

TECHNICAL DRAWING

Weight (g): 6.0

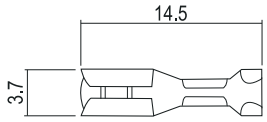
Dimensions in mm (typical). Not to scale. Mounting hole to be clean and burr free. Anode termination denoted by red indicator.





Mounting Hole

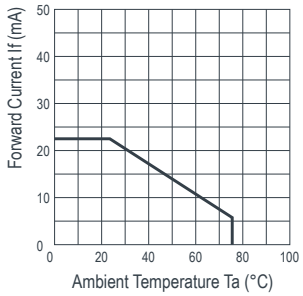
PUSH ON CONNECTOR



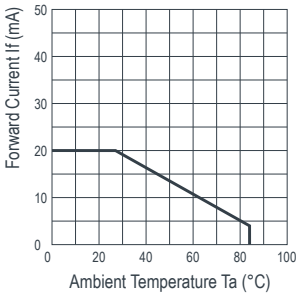
925-000-00 is brass tin plated - for use with 695 series lamps. Dimensions in mm (typical). Not to scale.

DE-RATING GRAPHS

Red / Green / Blue / Cool White LED



Yellow LED



MATERIALS

Body	Natural Anodised Aluminium
Nut	Natural Anodised Aluminium
Panel Seal	Viton
Lens	Polycarbonate
Encapsulation	Black Polyurethane
Lock Washer	Spring Steel
Termination	Silver Flash Coated Brass with Copper Flash Undercoat
Header	Nylon 6,6 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 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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