

699 RS series



features



- Ø12.7mm mounting
- Product will operate over a wide input voltage range
- Black anodised aluminium housing, sealed to IP67
- Colour diffused lens
- Fully internally potted to resist shock and vibration
- True bi-polar product for low voltage DC applications
- Other voltages including DC options are available
- Pack Quantity = 10 Pieces

specifications

Typical characteristics (Ta = 25°C)

RS Part Number	Marl Part Number	Colour	Voltage Vac/dc	Current DC (mA)	Luminous Intensity (mcd)	Wave Length (nm)	Operating Temp. (°C)	Storage Temp. (°C)	De-rating Graphs
469834	699-501-63	Red	12-28	6-16	600	630	-40 - +80	-40 - +100	D
6667179	699-501-75	Red	110 Vac	7	600	630	-40 - +80	-40 - +100	D
469838	699-521-63	Yellow	12-28	6-16	600	585	-40 - +80	-40 - +100	D
6667173	699-521-75	Yellow	110 Vac	7	600	585	-40 - +80	-40 - +100	D
469828	699-532-63	Green	12-28	6-16	800	515	-40 - +80	-40 - +100	F
6667182	699-532-75	Green	110 Vac	7	800	515	-40 - +80	-40 - +100	F
469822	699-930-63	Blue	12-28	6-16	230	465	-30 - +85	-40 - +100	U
6667185	699-930-75	Blue	110 Vac	7	230	465	-30 - +85	-40 - +100	U
469850	699-997-63	White	12-28	6-16	1100	* See below	-30 - +85	-40 - +100	I
6667189	699-997-75	White	110 Vac	7	1100	* See below	-30 - +85	-40 - +100	I

997F-C	*Typical emission colour White			
x	0.31	-	-	-
y	0.32	-	-	-

^ = Voltage for 20mA product is Vf at 20mA, not Vopr

- Products must be de-rated according to the de-rating information. Each de-rating graph refers to specific LEDs. Please refer to graphs on page 3.

- Luminous intensity is measured at 20mA on a discrete LED unless otherwise stated.

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

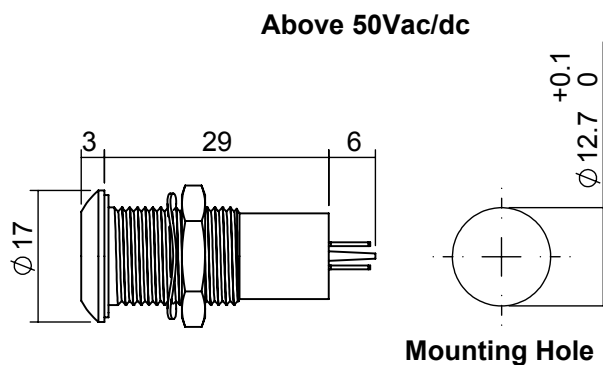
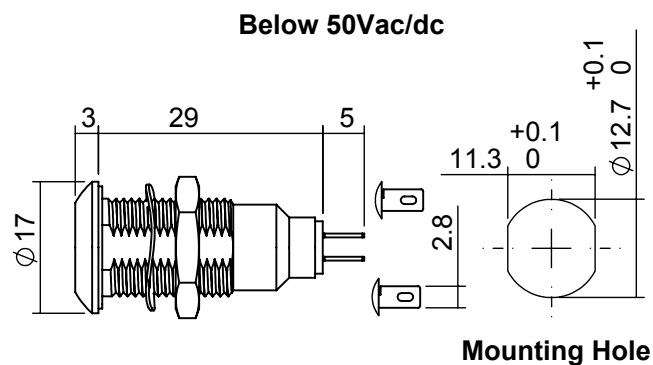
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technical data

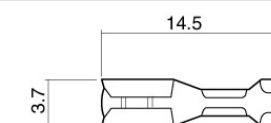


Dimensions in mm (typical)
Not to scale

Anode termination denoted by red indicator
Mounting hole to be clean and burr free

housing material

Body	Aluminium Grade 6063 black anodised
Nut	Stainless Steel Grade 303
Panel Seal	Viton
Fresnel Lens	Polycarbonate
Encapsulation	PC5430
Lock Washer	Zinc Plated Steel
Termination	Copper with Silver Flash Finish
Header	Nylon 6 A82



925-000-00 is brass tin plated - for use
with 699 series lamps
Dimensions in mm (typical). Not to scale.

push on connectors

technical characteristics

Series	Max. Power Dissipation	Max. Reverse Voltage	Panel Cutout	Nut Mounting Torque	Min. Mounting Centres	Max. Panel Thickness
699	825	-	12.7	1.0	26.0	2.0 - 10.0
units	mW	Vdc	mm	Nm	mm	mm

* = Current Version

^ = Voltage Version

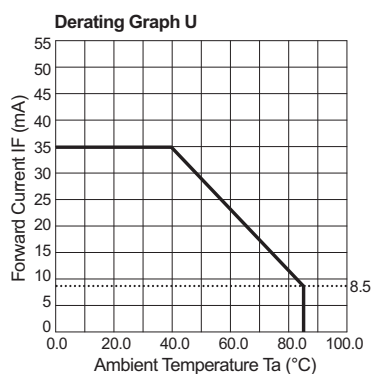
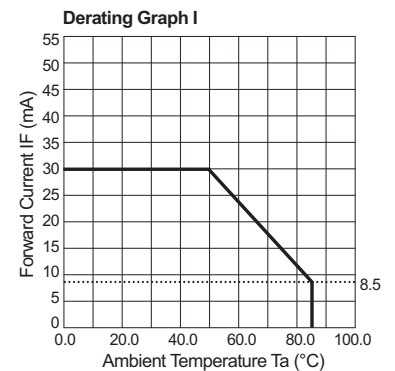
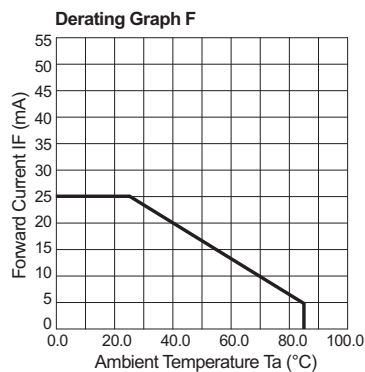
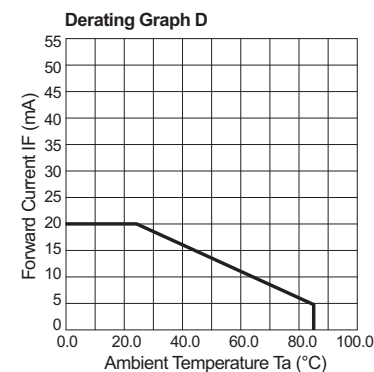
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de-rating information



also available

Part numbers also available in the 699 series:

Part Number	Colour	Voltage Vopr
699-532-54-50	Green	32 Vdc

The products listed here illustrate all of the options available to order. These products may have custom modifications that alter their operation beyond the generic information contained within this datasheet. Please contact sales for further information.

* = These products do not contain integral resistors

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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.

Power De-Rating

The forward voltage/ current value of an LED is dependant 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. Consequently, a recommendation regarding operating voltages and currents is given in order to address these temperature effects. This recommendation is termed 'de-rating'. It is usual for forward voltages and currents to be specified for ambient temperature of 25°C. However, because the values of these qualities vary with temperature, please refer to the de-rating graphs for correct operation. Marl accept no liability for any product that is operated higher than the stated voltage.

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