

692 series



features



- Ø12.7mm mounting
- Black anodised aluminium housing
- Flame retardant flying lead options
- Sealed to IP67
- Colour diffused lens
- Fully internally potted to resist shock and vibration
- Internal reverse protection diode fitted as standard
- Pack Quantity = 10 Pieces

specifications

Typical characteristics (Ta = 25°C)

Part Number	Colour	Voltage Vac/dc	Current DC (mA)	Luminous Intensity (mcd)	Wave Length (nm)	Operating Temp. (°C)	Storage Temp. (°C)	De-rating Graphs
692-501-21	Red	12 Vdc	20	600	630	-40 - +80	-40 - +100	D
692-521-21		12 Vdc	20					-
692-532-21	Green	12 Vdc	20	800	515	-40 - +80	-40 - +100	F
692-930-21	Blue	12 Vdc	20	140	465	-30 - +85	-40 - +100	U
692-997-21	White	12 Vdc	20	1600	* See below	-20 - +75	-30 - +80	Q
692-501-23	Red	24 - 28 Vdc	20	600	630	-40 - +80	-40 - +100	D
692-521-23		24 - 28 Vdc	20					-
692-532-23	Green	24 - 28 Vdc	20	800	515	-40 - +80	-40 - +100	F

997F-L	*Typical emission colour White			
x	0.3130	-	-	-
y	0.3290	-	-	-

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

to order

to order please contact us on: t: +44 (0)1229 582 430

f: +44 (0)1229 585 155 e: sales@marl.co.uk w: www.leds.co.uk

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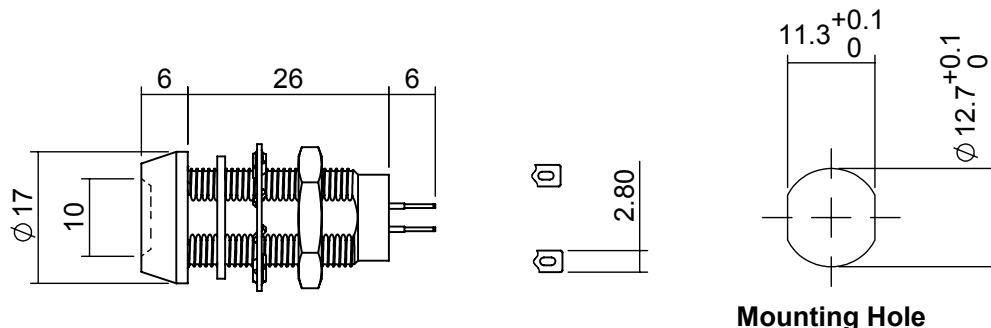


high performance panel lamps

692 series



technical data



Mounting Hole

Dimensions in mm (typical)

Not to scale

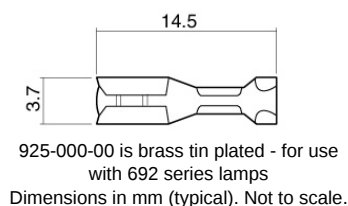
Anode termination denoted by red indicator

Mounting hole to be clean and burr free

housing material

push on connectors

Body	Black Anodised Aluminium
Nut	Black Anodised Aluminium
Panel Seal	Viton
Fresnel Lens	Polycarbonate
Encapsulation	PC5430 Resin
Lock Washer	Spring Steel
Termination	Silver Flash Coated Brass
Header	-



technical characteristics

Series	Max. Power Dissipation	Max. Reverse Voltage	Panel Cutout	Nut Mounting Torque	Min. Mounting Centres	Max. Panel Thickness
692	1000	3*/1000^	12.7	1.0	19.5	1.5 - 8.0
units	mW	Vdc	mm	Nm	mm	mm

* = Current Version

^ = Voltage Version

optional flying lead terminations

Order Code Suffix	Supply Voltage	Wire Colour	Wire Length	No/Diameter of Conductor	Diameter Insulation	Comments
19	DC products	Red-anode/ Black-cathode	1000mm	19/0.15mm	1.2mm	Customised lengths available

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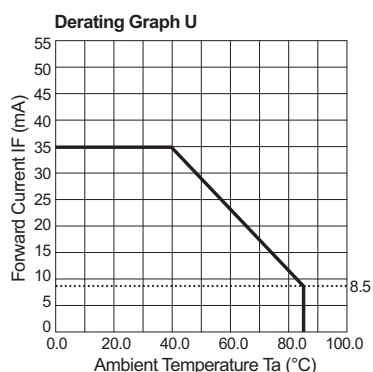
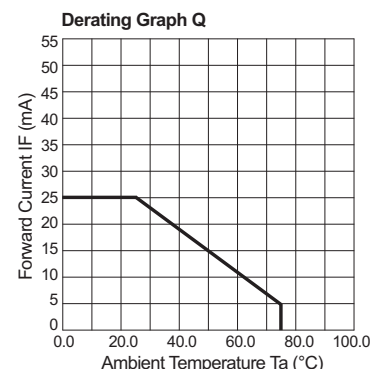
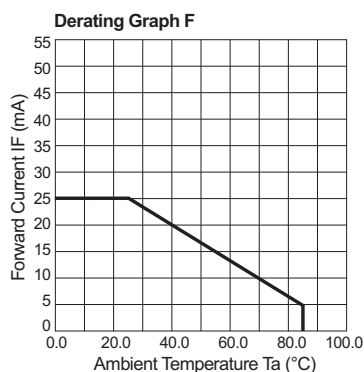
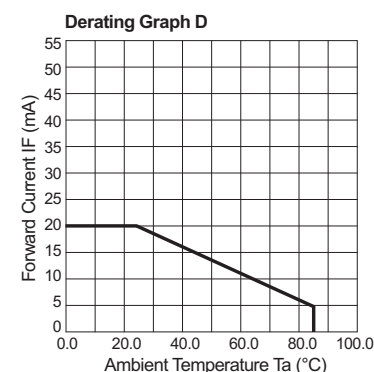
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692 series



de-rating information



also available

Part numbers also available in the 692 series:

Part Number	Colour	Voltage Vopr	Part Number	Colour	Voltage Vopr	Part Number	Colour	Voltage Vopr
692-501-20	Red	5/6 Vdc	692-532-25-19	Green	110 Vdc	692-997-76-15	White	230 Vac 50 Hz
692-501-22	Red	24 Vdc	692-532-27	Green	220 Vdc	692-997-76-19	White	230 Vac 50 Hz
692-501-24	Red	48 Vdc	692-532-46	Green	35 Vdc			
692-501-24-19	Red	48 Vdc	692-532-46-50	Green	35 Vdc			
692-501-25-19	Red	110 Vdc	692-532-75	Green	110 Vac 50 Hz			
692-501-75	Red	110 Vac 50 Hz	692-532-75-19	Green	110 Vac 50 Hz			
692-501-75-15	Red	110 Vac 50 Hz	692-532-76	Green	230 Vac 50 Hz			
692-501-75-19	Red	110 Vac 50 Hz	692-535-20-35	Red/Green	5/6 Vdc			
692-501-76	Red	230 Vac 50 Hz	692-540-75-19	Red	110 Vac 50 Hz			
692-501-76-15	Red	230 Vac 50 Hz	692-930-22	Blue	24 Vdc			
692-521-22	Yellow	24 Vdc	692-997-24-19	White	48 Vdc			
692-521-25-19	Yellow	110 Vdc	692-997-25	White	110 Vdc			
692-521-75-19	Yellow	110 Vac 50 Hz	692-997-25-19	White	110 Vdc			
692-521-76	Yellow	230 Vac 50 Hz	692-997-72	White	24 Vac 50 Hz			
692-532-22	Green	24 Vdc	692-997-75-15	White	110 Vac 50 Hz			
692-532-24-19	Green	48 Vdc	692-997-75-19	White	110 Vac 50 Hz			

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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