



**512 SERIES**

PACK QUANTITY = 10 PIECES

- Robust bright nickel plated brass housing
- Sealed to IP67
- Flying lead terminations available
- Suitable for high vibration applications
- Internal reverse protection diode fitted as standard in all voltage models.

**SPECIFICATION**

Ordering Information & 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 DC (Vdc) Vopr	CURRENT DC (mA) Iopr	LUMINOUS INTENSITY Iv@20mA (mcd)	WAVE LENGTH λ.p (nm)	OPERATING TEMP Topr	STORAGE TEMP Tstg	
<b>HIGH INTENSITY</b>									
512-501-21	Red	Smoked	12	19	11000	643	-40 ~ +95 <sup>^</sup>	-40 ~ +100	Yes
512-521-21	Yellow	Smoked	12	19	16000	591	-40 ~ +95 <sup>^</sup>	-40 ~ +100	Yes
512-532-21	Green	Smoked	12	20	23000	527	-40 ~ +95 <sup>^</sup>	-40 ~ +100	Yes
512-930-21	Blue	Smoked	12	20	7000	470	-40 ~ +95 <sup>^</sup>	-40 ~ +100	Yes
512-997-21	Cool White	Smoked	12	20	14000	see below	-40 ~ +95 <sup>^</sup>	-40 ~ +100	Yes
512-501-23	Red	Smoked	24-28	20	11000	643	-40 ~ +95 <sup>^</sup>	-40 ~ +100	Yes
512-521-23	Yellow	Smoked	24-28	20	16000	591	-40 ~ +95 <sup>^</sup>	-40 ~ +100	Yes
512-532-23	Green	Smoked	24-28	20	23000	527	-40 ~ +95 <sup>^</sup>	-40 ~ +100	Yes
512-930-23	Blue	Smoked	24-28	20	7000	470	-40 ~ +95 <sup>^</sup>	-40 ~ +100	Yes
512-997-23	Cool White	Smoked	24-28	20	14000	see below	-40 ~ +95 <sup>^</sup>	-40 ~ +100	Yes
<b>UNITS</b>			<b>Vdc</b>	<b>mA</b>	<b>mcd</b>	<b>nm</b>	<b>°C</b>	<b>°C</b>	



Other voltages AC/DC available. Please contact our Technical Sales.

<sup>^</sup> = Products must be derated according to the derating information. Each derating graph refers to specific LEDs.

<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:**

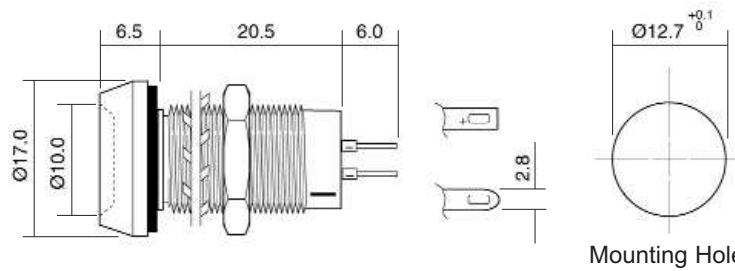
website: [www.leds.co.uk](http://www.leds.co.uk) email: [sales@marl.co.uk](mailto:sales@marl.co.uk)  
tel: +44 (0)1229 582 430 fax: +44 (0)1229 585 155

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### 512 Series



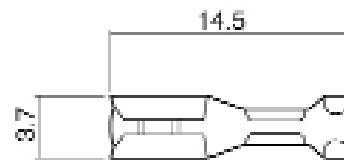
Dimensions in mm (Typical)  
Not to scale

Anode termination indicated by red sleeve  
Mounting hole to be clean and burr free

#### MATERIALS

Body	Brass to BS 2874 CZ121 Nickel plated to BS 1224
Nut	Brass to BS 2874 CZ121 nickel plated to BS 1224
Panel Seal	Viton
Termination	Brass to BS 2874 CZ108 Copper flash undercoat with silver flash finish
Lock Washer	Zinc plated steel
Fresnel lens	Polycarbonate
Encapsulation	PC5430 resin

#### PUSH-ON CONNECTORS



925-000-00 is brass tin plated.  
For use with 512 series lamps.

Dimensions in mm (Typical)  
Not to scale

#### TECHNICAL CHARACTERISTICS

SERIES	MAXIMUM POWER DISSIPATION	MAXIMUM REVERSE VOLTAGE	PANEL CUTOUT	NUT MOUNTING TORQUE	MINIMUM MOUNTING CENTRES	MIN/MAX. PANEL THICKNESS
512	1000	1000	12.7	1.0	x,y=19.5	1.5-8.0
	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 CONDUCTORS	DIAMETER OVER INSULATION	COMMENTS
15	DC Products	Red-anode / Black-cathode	150mm	19/0.15mm	1.2mm	Customised lengths available
15	AC Products	Brown-live / Blue-neutral	150mm			
19	DC Products	Red-anode / Black-cathode	1000mm			
19	AC Products	Brown-live / Blue-neutral	1000mm			

#### How to Order:

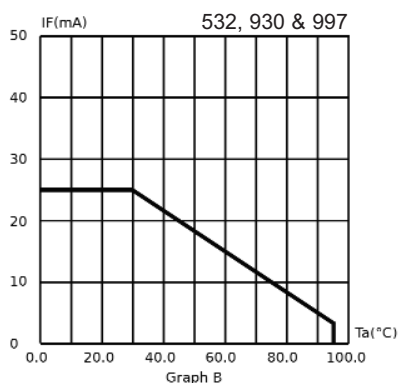
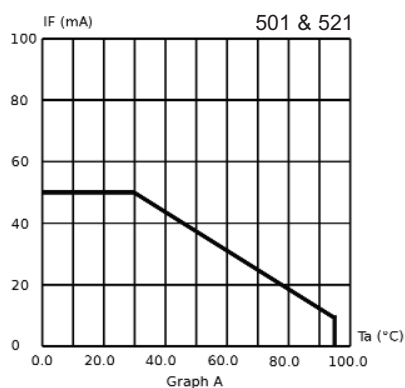
website: [www.leds.co.uk](http://www.leds.co.uk) email: [sales@marl.co.uk](mailto:sales@marl.co.uk)  
tel: +44 (0)1229 582 430 fax: +44 (0)1229 585 155

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## DERATING INFORMATION



## ALSO AVAILABLE

Part numbers also available in the 512 Series:

PART NO.	COLOUR	VOLTAGE DC (Vdc) Vopr
512-501-04	Red	20mA
512-501-22	Red	24 Vdc
512-501-24	Red	48 Vdc
512-501-26	Red	230 Vdc
512-501-46	Red	35 Vdc
512-501-75	Red	110 Vac
512-501-76	Red	230 Vac
512-521-04	Yellow	20mA
512-521-20	Yellow	5/6 Vdc
512-521-22	Yellow	24 Vdc
512-521-24	Yellow	48 Vdc
512-521-26	Yellow	230 Vdc
512-521-46	Yellow	35 Vdc
512-521-75	Yellow	110 Vac
512-521-76	Yellow	230 Vac
512-532-04	Green	20mA
512-532-22	Green	24 Vdc
512-532-24	Green	48 Vdc
512-532-26	Green	230 Vdc
512-532-46	Green	35 Vdc
512-532-75	Green	110 Vac
512-532-76	Green	230 Vac
512-540-21	Red	12 Vdc
512-930-04	Blue	20mA
512-930-46	Blue	35 Vdc
512-997-04	White	20mA
512-997-22	White	24 Vdc
512-997-24	White	48 Vdc
512-997-46	White	35 Vdc
512-997-75	White	110 Vac
512-997-76	White	230 Vac
UNITS		

The products listed 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.

### How to Order:

website: [www.leds.co.uk](http://www.leds.co.uk) email: [sales@marl.co.uk](mailto:sales@marl.co.uk)  
 tel: +44 (0)1229 582 430 fax: +44 (0)1229 585 155

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