

PROFESSIONAL LED INDICATORS Ø8.1mm Mounting

# 503 SERIES

PACK QUANTITY = 10 PIECES

### **FEATURES**

- Robust bright nickel plated brass housing
- Raised profile styling, sunlight readable LEDs
- Sealed to IP67
- 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) lopr	LUMINOUS INTENSITY Iv@20mA (mcd)	WAVE LENGTH λp (nm)	OPERATING TEMP Topr	STORAGE TEMP Tstg	RoHS 2002/95/6C
			HIC	GH INTE	NSITY				2002/33/60
503-501-21	Red	Colour Diffused	12	20	11000	643	-40 ~ +95^	-40 ~ +100	Yes
503-521-21	Yellow	Colour Diffused	12	20	16000	591	-40 ~ +95^	-40 ~ +100	Yes
503-532-21	Green	Colour Diffused	12	20	23000	527	-40 ~ +95^	-40 ~ +100	Yes
503-930-21	Blue	Colour Diffused	12	20	7000	470	-40 ~ +95^	-40 ~ +100	Yes
503-997-21	Cool White	Colour Diffused	12	20	14000	*see below	-40 ~ +95^	-40 ~ +100	Yes
503-501-23	Red	Colour Diffused	24-28	20	11000	643	-40 ~ +95^	-40 ~ +100	Yes
503-521-23	Yellow	Colour Diffused	24-28	20	16000	591	-40 ~ +95^	-40 ~ +100	Yes
503-532-23	Green	Colour Diffused	24-28	20	23000	527	-40 ~ +95^	-40 ~ +100	Yes
503-930-23	Blue	Colour Diffused	24-28	20	7000	470	-40 ~ +95^	-40 ~ +100	Yes
503-997-23	Cool White	Colour Diffused	24-28	20	14000	*see below	-40 ~ +95^	-40 ~ +100	Yes
UNITS			Vdc	mA	mcd	nm	°C	°C	

997F-C	*Typical emission colour cool white					
х	0.245	0.361	0.356	0.264		
У	0.229	0.385	0.351	0.220		

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

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

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

#### How to Order:

website: www.marl.co.uk • email: sales@marl.co.uk •

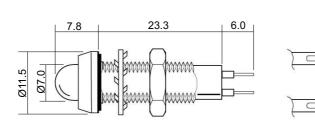
• Telephone +44 (0)1229 582430 • Fax: +44 (0)1229 585155

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## 503 Series



Dimensions in mm (Typical) Not to scale Anode termination indicated by red sleeve Mounting hole to be clean and burr free

Ø8.10

Mounting Hole

	MATERIALS	PUSH-ON CONNECTORS			
Body	Brass to BS 2874 CZ121				
	Nickel plated to BS 1224	820117228			
Nut	Brass to BS 2874 CZ121	14.5			
	nickel plated to BS 1224				
Panel Seal Viton					
Termination	Brass to BS 2874 CZ108	3.7			
	Copper flash undercoat with silver flash finish				
Lock Washer	Zinc plated steel				
Fresnel lens	Polycarbonate	925-000-00 is brass tin plated. Dimensions in mm (Typical)			
Encapsulation	PC5430 resin	For use with 503 series lamps. Not to scale			

# **TECHNICAL CHARACTERISTICS**

SERIES	MAXIMUM POWER DISSIPATION	MAXIMUM REVERSE VOLTAGE	PANEL CUTOUT	MOUNTING TORQUE	MINIMUM MOUNTING CENTRES	MIN/MAX. PANEL THICKNESS
503	700	3* / 1000•	8.1	0.65	x,y=14.5	1.5-13.0
	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				
15	AC Products	Brown-live / Blue-neutral	150mm	19/0.15mm	1.2mm	Customised	
19	DC Products	Red-anode / Black-cathode	1000mm	19/0.15/11/11	1.2111111	lengths available	
19	AC Products	Brown-live / Blue-neutral	1000mm				

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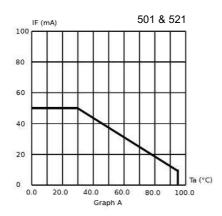
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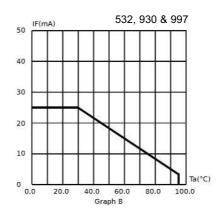
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## **DERATING INFORMATION**





# ALSO AVAILABLE

Part numbers also available in the 503 Series:

PART NO.	COLOUR	VOLTAGE DC		
		(Vdc) Vopr		
503-502-22	Red	24 VDC		
503-503-04	Red	20mA		
503-503-20	Red	5/6 VDC		
503-503-23	Red	28 VDC		
503-503-24-50	Red	48 VDC		
503-506-75-15	Orange	110 VAC		
503-509-22-09	Yellow	24 VDC		
503-512-21	Green	12 VDC		
503-512-22	Green	24 VDC		
503-512-75	Green	110 VAC		
503-512-75-15	Green	110 VAC		
503-521-22	Yellow	24 VDC		
503-521-75-15	Yellow	110 VAC		
503-532-75-15	Green	110 VAC		
503-578-75-15	Amber	110 VAC		
503-930-75-15	Blue	110 VAC		
503-997-75-15	White	110 VAC		
UNITS				

The products listed above 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.

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