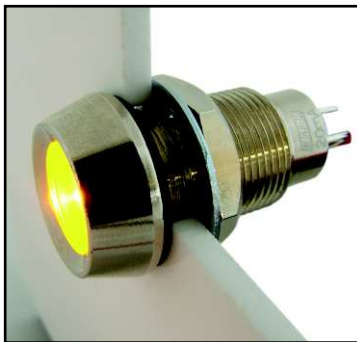


● PROFESSIONAL LED INDICATORS Ø12.7mm Mounting

**FEATURES**



**511 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 λp (nm)	OPERATING TEMP Topr	STORAGE TEMP Tstg		
<b>HIGH INTENSITY</b>										
511-501-21	Red		Colour Diffused	12	19	11000	643	-40 ~ +95 <sup>^</sup>	-40 ~ +100	Yes
511-521-21	Yellow		Colour Diffused	12	19	16000	591	-40 ~ +95 <sup>^</sup>	-40 ~ +100	Yes
511-532-21	Green		Colour Diffused	12	20	23000	527	-40 ~ +95 <sup>^</sup>	-40 ~ +100	Yes
511-930-21	Blue		Colour Diffused	12	20	7000	470	-40 ~ +95 <sup>^</sup>	-40 ~ +100	Yes
511-997-21	Cool White		Colour Diffused	12	20	14000	see below	-40 ~ +95 <sup>^</sup>	-40 ~ +100	Yes
511-501-23	Red		Colour Diffused	24-28	20	11000	643	-40 ~ +95 <sup>^</sup>	-40 ~ +100	Yes
511-521-23	Yellow		Colour Diffused	24-28	20	16000	591	-40 ~ +95 <sup>^</sup>	-40 ~ +100	Yes
511-532-23	Green		Colour Diffused	24-28	20	23000	527	-40 ~ +95 <sup>^</sup>	-40 ~ +100	Yes
511-930-23	Blue		Colour Diffused	24-28	20	7000	470	-40 ~ +95 <sup>^</sup>	-40 ~ +100	Yes
511-997-23	Cool White		Colour Diffused	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.marl.co.uk](http://www.marl.co.uk) • email: [sales@marl.co.uk](mailto:sales@marl.co.uk) •

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

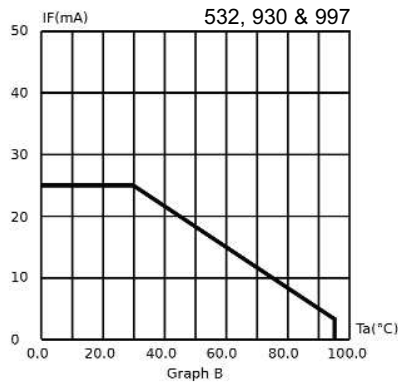
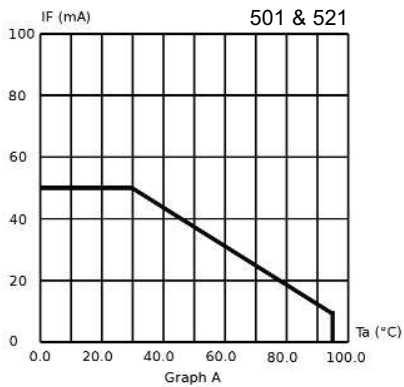
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## DERATING INFORMATION



## ALSO AVAILABLE

Part numbers also available in the 511 Series:

PART NO.	COLOUR	VOLTAGE DC (Vdc) Vopr
511-501-04	Red	20mA
511-501-04-15	Red	20mA
511-501-13	Red	20mA DC RP
511-501-22	Red	24 Vdc
511-501-22-15	Red	24 Vdc
511-501-22-19	Red	24 Vdc
511-501-24	Red	48 Vdc
511-501-25	Red	110 Vdc
511-501-41	Red	8 Vdc
511-501-48	Red	60 Vdc
511-501-53	Red	50 Vdc
511-501-72	Red	24 Vac
511-501-75	Red	110 Vac
511-501-75-13	Red	110 Vac
511-501-75-15	Red	110 Vac
511-501-76	Red	230 Vac
511-501-76-15	Red	230 Vac
511-503-22	Red	24 Vdc
511-503-23	Red	28 Vdc
511-503-72	Red	24 Vac
511-503-75	Red	110 Vac
511-503-76-15	Red	230 Vac
511-509-22	Yellow	24 Vdc
511-509-24	Yellow	48 Vdc
511-509-55	Yellow	130 Vdc
511-509-72	Yellow	24 Vac
511-509-75	Yellow	110 Vac
511-509-76-15	Yellow	230 Vac
511-512-22	Green	24 Vdc
UNITS		

PART NO.	COLOUR	VOLTAGE DC (Vdc) Vopr
511-512-23	Green	28 Vdc
511-512-25	Green	110 Vdc
511-512-72	Green	24 Vac
511-512-75	Green	110 Vac
511-512-76-15	Green	230 Vac
511-521-04	Yellow	20mA
511-521-04-15	Yellow	20mA
511-521-22	Yellow	24 Vdc
511-521-22-15	Yellow	24 Vdc
511-521-24	Yellow	48 Vdc
511-521-41	Yellow	8 Vdc
511-521-48	Yellow	60 Vdc
511-521-72	Yellow	24 Vac
511-521-75	Yellow	110 Vac
511-521-75-15	Yellow	110 Vac
511-521-76-15	Yellow	230 Vac
511-523-22	Red	24 Vdc
511-532-04	Green	20mA
511-532-04-15	Green	20mA
511-532-22	Green	24 Vdc
511-532-22-15	Green	24 Vdc
511-532-23-51	Green	28 Vdc
511-532-24	Green	48 Vdc
511-532-25	Green	110 Vdc
511-532-25-11	Green	10mA
511-532-26-15	Green	230 Vdc
511-532-41	Green	8 Vdc
511-532-46	Green	35 Vdc
511-532-46-50	Green	60 Vdc
UNITS		

PART NO.	COLOUR	VOLTAGE DC (Vdc) Vopr
511-532-48	Green	60 Vdc
511-532-72	Green	24 Vac
511-532-75	Green	110 Vac
511-532-76-15	Green	230 Vac
511-532-77-15	Green	125 Vac
511-582-20-50	Yellow	5/6 Vdc
511-805-22	Red	24 Vdc
511-811-22	Yellow	24 Vdc
511-814-22	Green	24 Vdc
511-930-22	Blue	24 vdc
511-930-22-15	Blue	24 Vdc
511-930-24	Blue	48 Vdc
511-930-25	Blue	110 Vdc
511-930-48	Blue	60 Vdc
511-997-04-50	White	20mA
511-997-22	White	24 Vdc
511-997-22-15	White	24 Vdc
511-997-24	White	48 Vdc
511-997-25	White	110 Vdc
511-997-48	White	60 Vdc
511-997-53	White	50 Vdc
511-997-75	White	110 Vac
511-997-75-15	White	110 Vac
511-997-76-15	White	230 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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