

RLT480-80MGE

- **Blue Laser Diode**
- 480 nm, 80 mW
- **Single Mode**
- 5.6 mm TO Package, Flat Window







Description

RLT480-80MGE is a blue laser diode, typically emitting at 480 nm. It features single mode emission and operating temperature range of up to 60°C. It is an efficient radiation source for many applications like laser projection, holography, metrology, or use in the biomedical field. RLT480-80MGE comes in 5.6 mm TO-Can package without PD.

Maximum Rating*

Parameter	Symbol	Val	Unit	
rarameter		Min.	Max.	Ullit
Reverse Voltage	V_{R}		2	V
Operating Temperature*	T_{OPR}	- 0	+ 60	°C
Storage Temperature*	T _{STG}	- 40	+ 85	°C
Soldering Temperature (max. 3s)	T_{SOL}		+ 260	°C



Electro-Optical Characteristics (TCASE = 25°C)

Parameter		Symbol	Values			Unit
			Min.	Тур.	Max.	Offic
Peak Wavelength		λ_{P}	475	480	485	nm
Spectral Width		λ_{Δ}		2.0		nm
Optical Output Power		Po		80		mW
Operating Voltage		V _F		6.5	8.0	V
Threshold Current		I th		30	65	mA
Operating Current		<i>l</i> F		130	150	mA
Beam Divergence (FWHM)	parallel	ΘII		8	12	deg.
	perpendicular	θΤ		24	26	deg.



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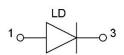
^{*} operating close to or outside these conditions may damage the device

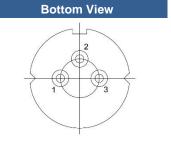


Electrical Connection

Pin Configuration Pin # Function Pin 1 LD Anode Pin 2 GND Pin 3 LD Cathode

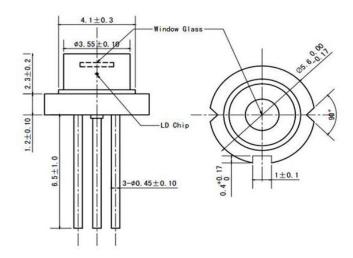
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Outline Dimensions

5.6 mm TO-Can



All dimensions in mm

Precautions

Safety

Laser light emitted from any laser diode may be harmful to the human eye. Avoid looking directly into the laser diode's aperture. The use of optical lenses will increase eye hazard



ESD Caution

Always do handle laser diodes with care to **prevent electrostatic discharge**. We advise to **wearing wrist straps**, **and grounding all applicable work surfaces**, when handling laser diodes

Operating Considerations

Usage of current regulated drive circuits is mandatory We advise to operate this laser diode with a current source and heat sink, and to never exceed the maximum specifications as outlined in this datasheet.



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