RLT1450-10MGS

- Infrared DFB Laser Diode
- 1450 nm, 10 mW
- Single transverse mode
- 5.6mm TO-Can with flat glass window





Description

RLT1450-10MGS is an infrared **distributed feedback (DFB)** laser diode, with **single transverse mode** emission at typically 1450 nm and low operating current. **RLT1450-10MGS** comes in a 5.6 mm TO-Can with flat glass window and **integrated PD.** Variants with non-spherical glass lens and reduced peak wavelength tolerance of ±5 nm and ± 3nm are available on request.

Maximum Rating*

Dovemeter	Symbol	Val	Heit	
Parameter		Min.	Max.	Unit
Reverse Voltage	V_{R}		2	V
Reverse PD Voltage	V_{RP}		15	V
Operating Temperature*	T_{OPR}	- 20	+ 50	°C
Storage Temperature*	T _{STG}	- 40	+ 85	°C
Soldering Temperature (max. 3s)	T_{SOL}		+ 260	°C

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

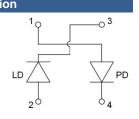
Electro-Optical Characteristics (TCASE = 25°C)

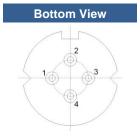
Parameter	Symbol	Values			Unit
		Min.	Тур.	Max.	Unit
Peak Wavelength	λ_{P}	1440	1450	1460	nm
Optical Output Power	Po		10		mW
Spectral Width (FWHM)	λ		0.3	2	nm
Beam Divergence (FWHM)	ӨП х Ө⊥		25 x 30		deg
Operating Voltage	V_{F}		1.4		V
Threshold Current	<i>I</i> th		10		mA
Operating Current	/ F		60		mA



Electrical Connection

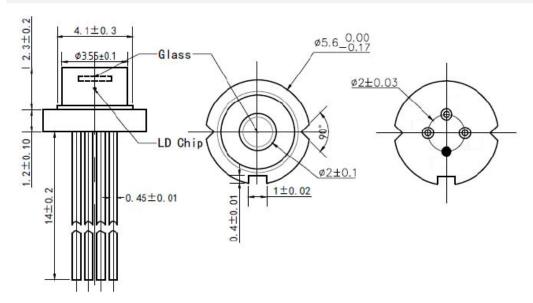
	Pin Configurati
Pin#	Function
Pin 1	PD anode
Pin 2	LD anode (case)
Pin 3	LD cathode
Pin 4	PD cathode





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Outline Dimensions



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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