v 1.1 04.08.2013

RLT760-10G

- Infrared FP Laser Diode
- 760 nm ± 5 nm, 10 mW CW
- Single Mode
- 9 mm TO package, flat window
- Built in Monitor PD





Description

RLT760-10G is a Laser Diode emitting at typical 760 nm with rated output power of 10 mW CW at room temperature. The 9 mm TO package includes a cap and flat window, and contains a built in **monitor PD**.

Maximum Ratings

Doromotor	Symbol	Val	Unit	
Parameter		Min.	Max.	Unit
Optical Output Power	Po		10	mW
Operating Temperature	T _{CASE}	-20	+60	°C
Storage Temperature	T_{STG}	-40	+85	°C
Soldering Temperature	T _{SOLD}		180	°C

Specifications

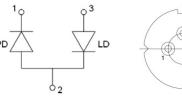
Doromotor	Symbol	Values			He:4
Parameter		Min.	Тур.	Max.	Unit
Central Wavelength	λ_{C}	755	760	765	nm
Optical Output Power	Po	-	10	-	mW
Emitting Area	WxH		3 x 1.5		μm
Threshold Current	I _{TH}	30	40	50	mA
Forward Current	I _{OP}	150	200	250	mA
Forward Voltage	U_OP	1.5	2.0	2.2	V
Beam Divergence	ΘII	8	10	12	deg.
Beam Divergence	θΤ	25	30	35	deg.
Spectral Width (FWHM)	Δλ	1.0	2.0	5.0	nm
Static Alignment	Δa II x	-	-	< ±3	deg.
Positional Accuracy	ΔΧ, ΔΥ, ΔΖ	-	-	±100	μm
Mode Structure			SM		-
Slope Efficiency	η	-	0.5	-	mW/mA
Monitor Current	I _M	0.07	0.4	0.8	mA

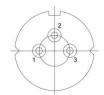
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Electrical Connection

Lead	Description
PIN 1	PD Cathode
PIN 2	PD Anode, LD Cathode
PIN 3	LD Anode

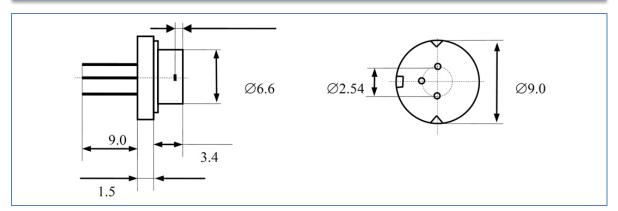




Bottom View



Drawing



All dimensions in mm

Mounting Instruction

In order to maintain lifetime and stability of the laser diode it is essential to provide efficient heat management. Heat dissipation is possible through the base plate only. For long time stable operation proper contact between laser diode base plate and heat sink is mandatory.

Safety Advice

This laser module emits highly concentrated ultra violet light which can be hazardous to the human eye. This module is classified as Class 3B laser product according to IEC 60825-1 and 21 CFR Part 1040.10 Safety Standards. Actual laser light emitted and precautions necessary strongly depend on mode of operation.



This product is comply with 21 CFR Part 1040.1

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