RLT395-50CMG

- Violet Radiation Source
- 395 nm ± 2nm
- 50 mW CW
- 5.6mm TO, without PD



Complies with RoHS 2002/95/WE directive

Description

RLT395-50CMG is an Violet Laser Diode emitting at 395 nm with rated output power of 50 mW CW at room temperature, in standard 5.6mm TO package.

Maximum Ratings

Parameter	Symbol	Val	Values		
Farameter	Symbol	Min.	Max.	Unit	
Optical Output Power	Po		50	mW	
Operating Temperature	T_{CASE}	+ 10	+ 30	°C	
Storage Temperature	T_{STG}	- 40	+ 80	°C	
Soldering Temperature	T_{SOLDER}		260	°C	

Laser Characteristics (T_{CASE} = 25°C, P_O = 50 mW)

Dozomotov	Cumbal	Values			l lmi4
Parameter	Symbol	Min.	Тур.	Max.	Unit
Emission Wavelength	λ_{peak}	393	395	397	nm
Spectral Width	$\Delta \lambda$		0.5	1	nm
Polarization			TE		
Threshold Current	I_{th}	40	70	100	mA
Operating Current	I _F	100	120	150	mA
Operating Voltage	V_{F}	4.8	5.2	5.9	V
Beam Divergence (FWHM)	ӨИх Ө⊥	6x15	10x20	13x25	deg.
Beam Pointing Accuracy (FWHM)	$\Delta\Theta_{\rm II}/\Delta\Theta_{\rm \perp}$	8 / 18	-	14 / 25	deg.
Slope Efficiency	η	0.5	0.7	1.2	W/A
Expected Life Time*	T_L		2000		h

^{*}life time calculation based on 10mW operation

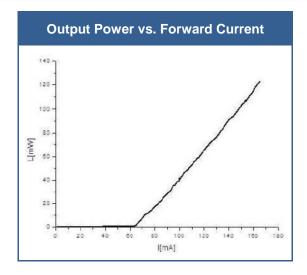


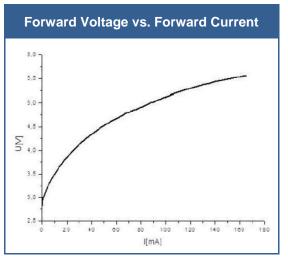
ROITHNER LASERTECHNIK GmbH

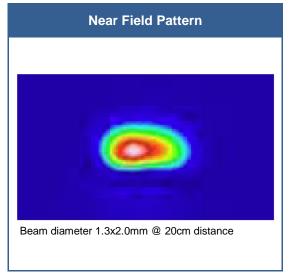
WIEDNER HAUPTSTRASSE 76 IO40 VIENNA AUSTRIA TEL. +43 I 586 52 43 -0, FAX. -44, OFFICE@ROITHNER-LASER.COM

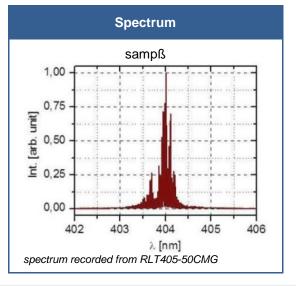


Performance Characteristics

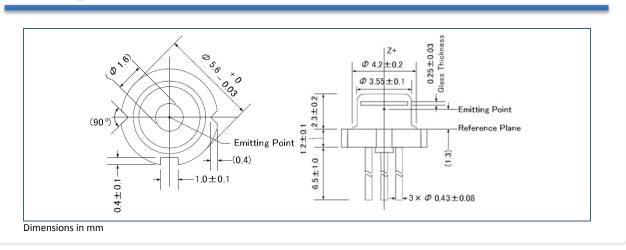








Drawing



Electrical Connection

Lead	Description
Pin 1	LD Anode
Pin 2	LD Cathode
Pin 3	Not connected



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 diode emits highly concentrated ultra violet light which can be hazardous to the human eye. This diode 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 Pert 1040.10

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