



LDM635/3LT

- Red Laser Module
- 635 nm, 3 mW
- APC (Automatic Power Control)
- 3-glass lens, focusable
- LED power on indicator



Description

LDM635/3LT is a red Diode Laser Module, designed with emphasis on superior beam quality, and reliable operation. The modules body is made of black anodized aluminum, enclosing laser diode, lens, and driving electronics. LT series features a focusable 3-lens glass collimator and a driver circuit operating at 4.5-5.0 VDC.

Maximum Ratings

Parameter	Symbol	Values		Unit
		Min.	Max.	
Optical Power	P_O		3.0	mW
Operating Temperature	T_{CASE}	- 10	+ 50	°C
Storage Temperature	T_{STG}	- 25	+ 85	°C

Electrical and Optical Characteristics ($T_{CASE}=25^{\circ}C$)

Parameter	Symbol	Values			Unit
		Min.	Typ.	Max.	
Emission Wavelength	λ_{Peak}	625	635	645	nm
Optical Output Power	P_O			3.0	mW
Laser Class			3R		
Operating Current	I_F		35	45	mA
Operating Voltage	V_F	4.5		5.0	V
Control			APC		
Focus			Adjustable		
Beam Divergence (Full Width)	Θ		0.5		mrad
Spot Size			<8.0 mm at 10 m		mm
Wiring			RED (+) , BLACK (-)		
MTTF			>10000 hours @ 25 °C		hours
Dimensions			Ø12.7 x 50.0		mm



Precautions

Mounting Instruction:

In order to maintain lifetime and stability of the laser diode it is essential to provide efficient heat management. For long time stable operation, proper contact between laser module and heat sink is mandatory.

Safety Advice:

This laser module emits highly concentrated visible light that can be **hazardous to the human eye and skin**. It is classified as **CLASS 3R 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.

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