

Laser Module LC-LMD-650-01

Ø 4 mm, 650 nm Laser Module

Features

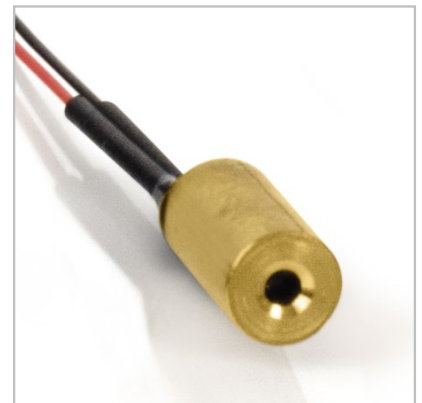
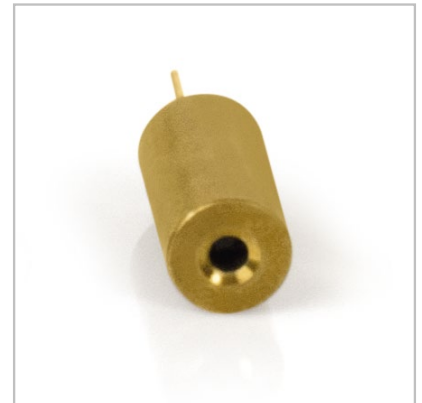
1. APC (auto power control) IC inside
2. Low current consumption of the APC circuit
3. Much smaller LD module
4. Surge current protection
5. High quality lens for output beam

Part No. Indications



Output Power
01 - < 1 mW
03 - < 3 mW
0.39 - < 0.39 mW

Part No. with 100 mm Flying Leads (1 mW Version only)



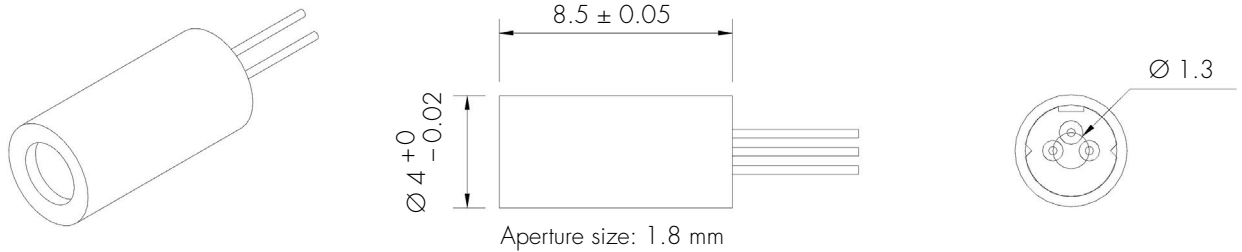
Absolute Maximum Ratings

Item	Symbol	Rating	Unit
Power supply voltage	V_{CC}	3.3	V
Laser module optical output power	P_o	01	< 1
		03	< 3
Operation temperature	T_{opr}	0 ~ 40	°C
Storage temperature	T_{stg}	0 ~ 60	°C

Electrical and Optical Characteristics ($T_c = 25\text{ }^\circ\text{C}$)

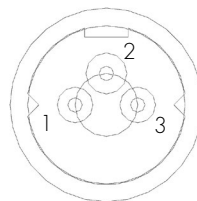
Item	Symbol	Min.	Typ.	Max	Unit	Condition	
Wavelength	λ	01	-	655	-	nm	$P_o = < 1\text{ mW}$
		03					$P_o = < 3\text{ mW}$
Operation current	I_{op}	01	-	-	-	mA	$P_o = 1\text{ mW } V_{cc} = 3\text{ V}$
		03					$P_o = 3\text{ mW } V_{cc} = 3\text{ V}$
Operation voltage	V_{op}	2.5	-	3.3	Volt		
Laser beam spot size at 10 m							< 20 mm
Divergence angle							2.0 mrad
Mean time to failure (MTTF) 2 mW 25 °C							>10000 hrs

Outline Dimensions (Units: mm)



Pin Assignment

Pin 1: V_{cc}
Pin 2: GND
Pin 3: NC



A type: Heat sink stand (-)