

Laser Module

LC-LMD-650-06

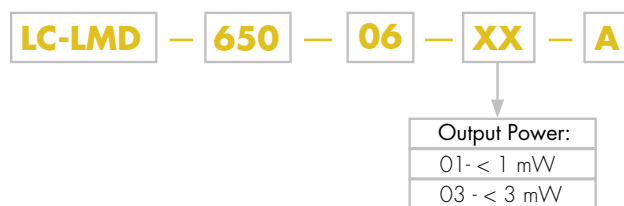
Ø 6.5 mm, 650 nm Laser Module

Features

1. APC (auto power control) IC inside
2. Low current consumption of the APC circuit
3. Superior laser beam profile



Part No. Indications



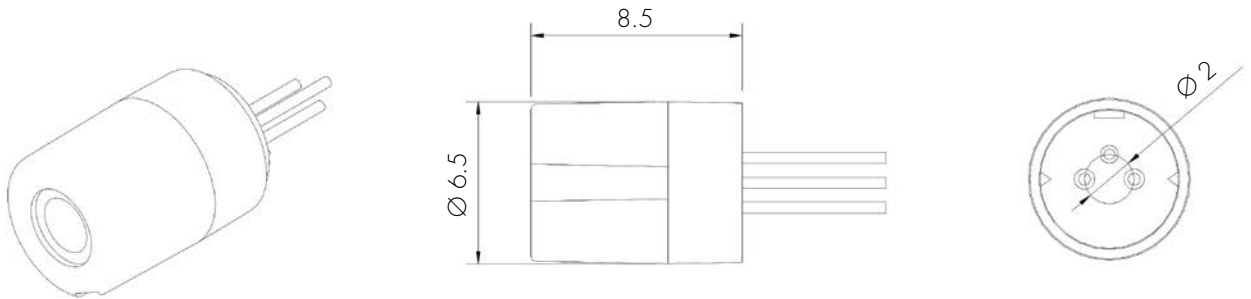
Absolute Maximum Ratings

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

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

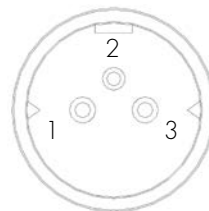
Item	Symbol		Min.	Typ.	Max	Unit	Condition
Wavelength	λ	01		655		nm	$P_o = 1\text{ mW}$
		03					$P_o = 3\text{ mW}$
Operation current	I_{op}	01	-	-	35	mA	$P_o = 1\text{ mW}$ $V_{cc} = 3\text{ V}$
		03					$P_o = 3\text{ mW}$ $V_{cc} = 3\text{ V}$
Operation voltage	V_{op}		2.5	-	3.3	Volt	
Laser beam spot size at 10 m							< 10 mm
Divergence angle							1.1 mrad
Mean time to failure (MTTF) 25 $^{\circ}\text{C}$							>10000 hrs

Outline Dimensions (Units: mm)



Pin Assignment

- Pin 1: V_{cc}
Pin 2: GND
Pin 3: NC (No external connection)



A type: Heat sink stand (-)