LASER COMPONENTS

Laser Module
LC-LMD-650-03

Ø 8 mm, 650 nm Laser Module

Features

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

Part No. Indications

LC-LMD – 650 – 03 – XX – A

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

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

LC-LMD – 650 – 03 – 01 – A – C

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

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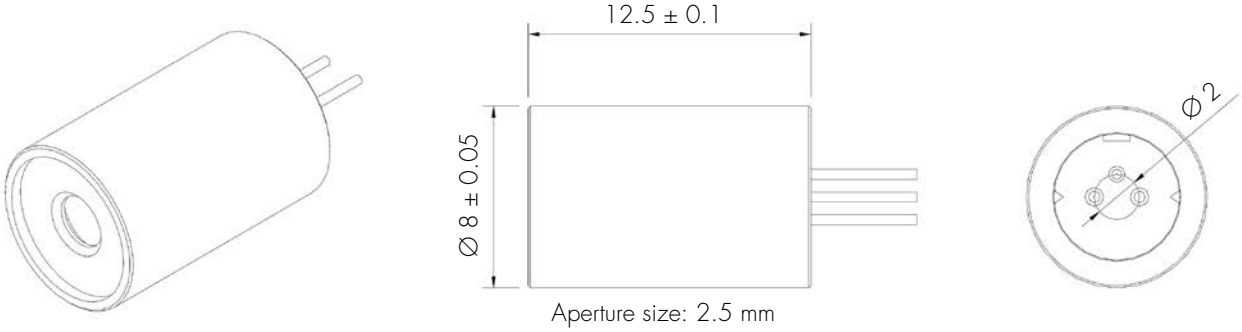
Laser Module
LC-LMD-650-03

Electrical and Optical Characteristics (T_C = 25 °C)

Item	Symbol		Min.	Typ.	Max	Unit	Condition
Wavelength	λ	01	-	655	-	nm	P_o = < 1 mW
		03					P_o = < 3 mW
Operation current	I_{op}	01	-	-	35	mA	P_o = 1 mW V_{cc} = 3 V
		03					P_o = 3 mW V_{cc} = 3 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 °C	>10000 hrs						

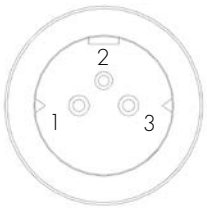
Outline Dimensions (Units: mm)



Aperture size: 2.5 mm

Pin Assignment

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



A type: Heat sink stand (-)

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