

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

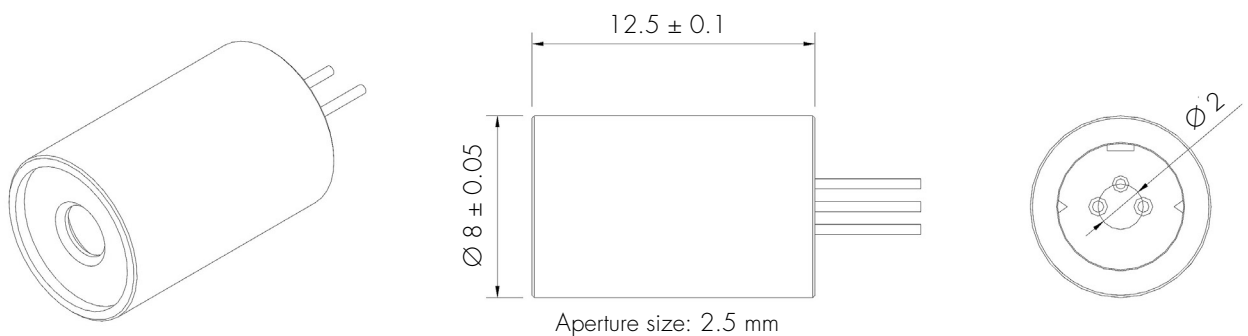
Absolute Maximum Ratings

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

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

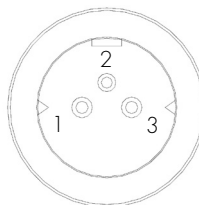
| Item | Symbol | Min. | Typ. | Max. | Unit | Condition | |
|--------------------------------------|-----------|------|------|------|------|------------|---|
| Wavelength | λ | 01 | - | 655 | - | nm | $P_o < 1\text{ mW}$ |
| | | 03 | - | - | - | - | nm |
| Operation current | I_{op} | 01 | - | - | 35 | mA | $P_o = 1\text{ mW}$ $V_{cc} = 3\text{ V}$ |
| | | 03 | - | - | - | - | mA |
| 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)



Pin Assignment

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



A type: Heat sink stand (-)