

Laser Module

LC-LMD-650-07-01-TM

Ø 3.3 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

LC-LMD - 650 - 07 - 01 - TM

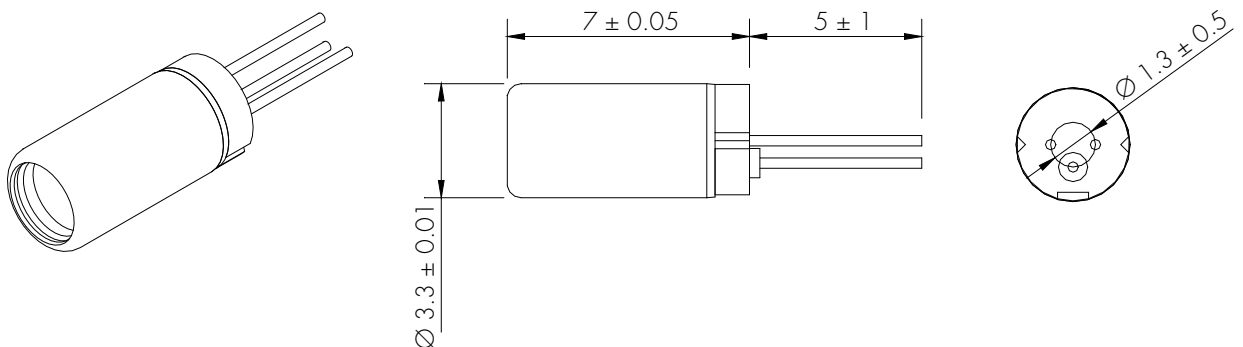
Absolute Maximum Ratings

| Item | Symbol | Rating | Unit |
|-----------------------------------|-----------|--------|------|
| Power supply voltage | V_{CC} | 5 | V |
| Laser module optical output power | P_o | < 1 | mW |
| Operation temperature | T_{opr} | 0 ~ 40 | °C |
| Storage temperature | T_{stg} | 0 ~ 60 | °C |

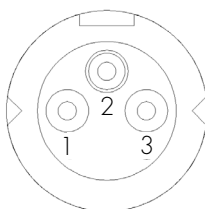
Electrical and Optical Characteristics ($T_c = 25\text{ }^\circ\text{C}$)

| Item | Symbol | Min. | Typ. | Max | Unit | Condition |
|------------------------------|-----------|------|------|---------|------|--|
| Wavelength | λ | 645 | 655 | - | nm | $P_o = 1\text{ mW}$ |
| Output power | P_{out} | 0.5 | - | 0.9 | mW | |
| Operation current | I_{op} | - | - | 30 | mA | $P_o = 1\text{ mW}$ $V_{cc} = 3\text{ V}$ |
| Operation voltage | V_{op} | 2.7 | 3.3 | 5 | Volt | |
| PWM Control mode | PWM | 100 | - | 2000 | KHz | Add 10 μf capacitance Duty cycle = 50% |
| Laser beam spot size at 10 m | | | | < 20 mm | | |
| Divergence angle | | | | 2 mrad | | |

Outline Dimensions (Units: mm)

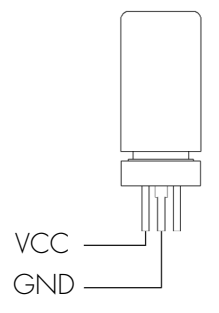


Pin Assignment



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

CW mode



PWM mode

