

Φ10.5mm 635nm Laser Module

P_o: < 3mW

Features

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



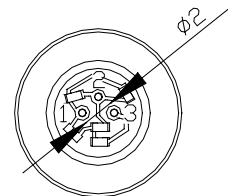
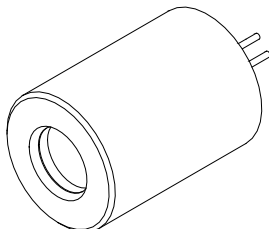
Absolute maximum ratings

| Item | Symbol | Rating | Unit |
|-----------------------------------|------------------|--------|------|
| Power supply voltage | V _{cc} | 3.3 | V |
| Laser Module optical output power | P _o | <3 | mW |
| Operation temperature | T _{opr} | -5~50 | °C |
| Storage temperature | T _{stg} | -20~70 | °C |

Electrical and optical characteristics (T_c=25 °C)

| Item | Symbol | Min. | Typ. | Max | Unit | Condition |
|----------------------------------|-----------------|------|------|-----------|------|--|
| Wavelength | λ | - | 634 | - | nm | P _o = 3mW |
| Operation current | I _{op} | - | - | 50 | mA | P _o = 3mW V _{cc} =3V |
| Operation voltage | V _{op} | 2.5 | - | 3.3 | Volt | |
| Laser Beam spot size at 10m | | | | <8mm | | |
| Divergence angle | | | | 0.9 mrad | | |
| Mean time to failure (MTTF) 25°C | | | | >5000 hrs | | |

Outline dimensions (Units: mm)



Aperture Size : 5mm

Laser Safety Precautions

1. Do not look into the laser beam directly by eyes. The laser beam may cause severe damage to human eyes.
2. Optical Lens is made of plastic or glass. Do not contaminate lens by soiling, oil or chemical.

** For reference only. Contents above are subject to change without notice.*

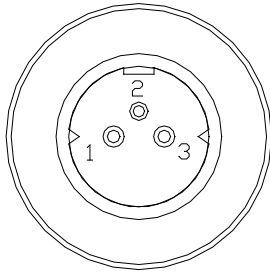
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PIN Assignment:

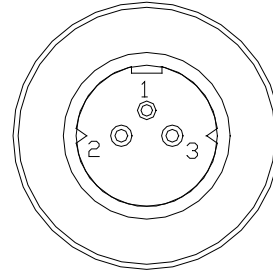


A type : Heat sink stand (-)

Pin 1 : Vcc

Pin 2 : GND

Pin 3 : NC (No external connection)

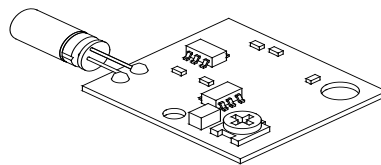
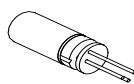
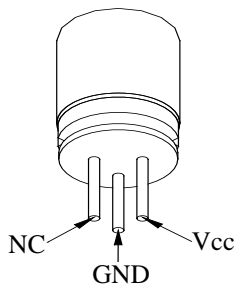


B type :Heat sink stand (+)

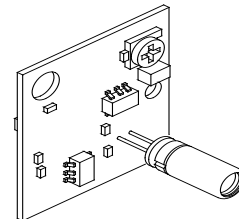
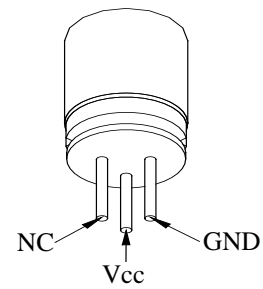
Instruction manual

1. DC Power connection mode 1

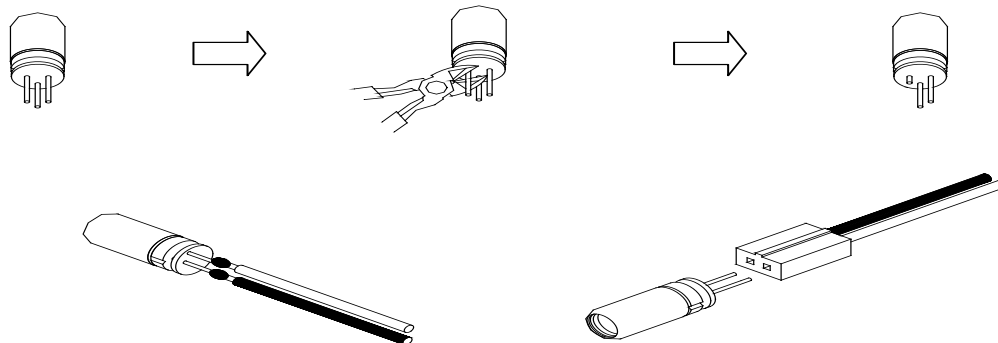
A type : Heat sink stand (-)



B type :Heat sink stand (+)



2. DC Power connection mode 2



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