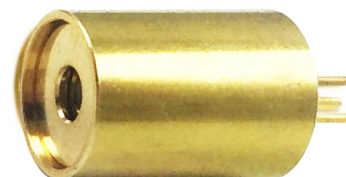


Φ8.0mm 850nm Laser Module

Features

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



Absolute maximum ratings

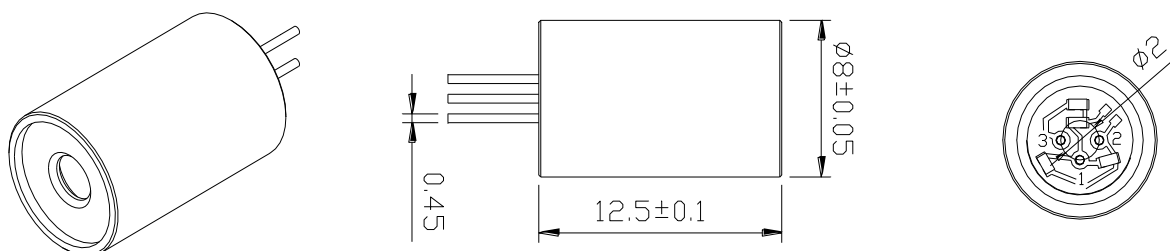
| Parameter | Symbol | Rating | Unit |
|-----------------------------------|------------------|--------|------|
| Power supply voltage | V _{cc} | 3.3 | V |
| Laser Module optical output power | P _o | <5 | mW |
| Operation temperature | T _{opr} | 0~40 | °C |
| Storage temperature | T _{stg} | 0~60 | °C |

Electrical and optical characteristics (T_c=25 °C)

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Conditions |
|-----------------------------|------------------|------|------|------|------|--|
| Wavelength | λ | - | 845 | - | nm | P _o = 5mW |
| Operation current | I _{op} | - | - | 35 | mA | P _o = 5mW ; V _{cc} =3V |
| Optical output power | P _{out} | 3.7 | - | 5 | mW | |
| Operation voltage | V _{op} | 2.5 | - | 3.3 | Volt | |
| Laser Beam spot size at 10m | | | | | | <10mm |
| Divergence angle | | | | | | 1.1 mrad |

* Sufficient heat dissipation is required for CW operation.

Outline dimensions (Units: mm)



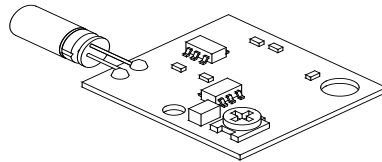
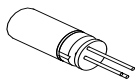
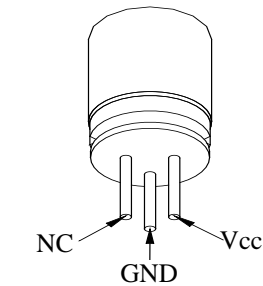
Aperture Size : 2.5mm

Φ8.0mm 850nm Laser Module

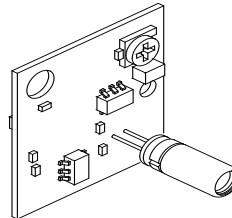
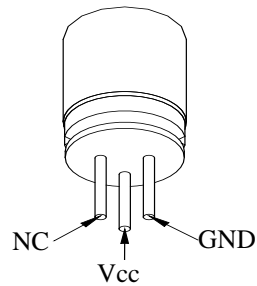
Instruction manual

DC Power connection mode 1

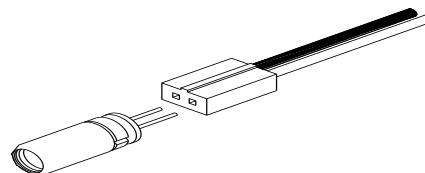
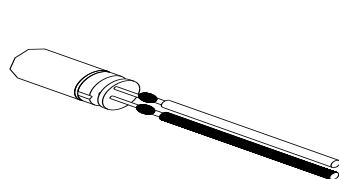
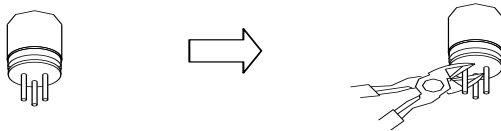
A type : Heat sink stand (-)



B type :Heat sink stand (+)



DC Power connection mode 2



● Precautions

- * Do not operate the device above maximum ratings. Doing so may cause unexpected and permanent damage to the device.
- * Take precautions to avoid electrostatic discharge and/or momentary power spikes. A change in the characteristics of the laser or premature failure may result.
- * Proper heat sinking of the device assures stability and lifetime. Always ensure that maximum operating temperatures are not exceeded.
- * Observing visible or invisible laser beams with the human eye directly, or indirectly, can cause permanent damage. Use a camera to observe the laser.
- * No laser device should be used in any application or situation where life or property is at risk in event of device failure.
- * Specifications are subject to change without notice. Ensure that you have the latest specification by contacting us prior to purchase or use of the product.

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