



DATASHEET



FEATURES

- ✓ Collimated Beam
- ✓ High Stability and Low Noise
- ✓ ESD & Reverse Polarity Protected
- ✓ Low Cost

APPLICATIONS

- ✓ Measurement
- ✓ Automation
- ✓ Alignment

Operational Hazard of Laser Module

This laser module emits radiation that is visible/invisible and harmful to human eye. When in use, do not look directly into the laser emitting aperture. Direct viewing of laser diode emission at close range may cause eye damage.



Limited Warranty

One year. No warranty coverage for disassembly, modifications, or damage due to abuse or misapplication.



SPECIFICATIONS

OPTICAL

| | |
|--|-------------------|
| Wavelength | 670 nm |
| Optical Output Power | < 1 mW |
| Laser Power Stability (with heat sink) | < 1% |
| Wavelength Drift | 0.2nm/°C |
| Laser Class | Class 2 |
| Laser Operation | Continuous |
| Laser Structure | Single Mode Laser |
| Divergence (at collimation) | < 2 mrad |
| Spot Size | 3mm elliptical |

ELECTRICAL

| | |
|------------------------|--------------------|
| Operating Voltage | 3 to 5V DC |
| Operating Current | < 40mA |
| Control Circuit | Auto Power Control |
| Electrical Connections | + Red, - Black |

MECHANICAL

| | |
|------------------------|------------------------------|
| Dimension, mm | 9mm (D)X 19mm (L) |
| Cable | 380mm |
| Operating Temperature | +10°C to +40°C |
| Storage Temperature | -40°C to +80°C |
| Heat Sink Requirements | Recommended for extended use |

Notes: This laser is designed to dissipate heat through its body. Do not use a thermally insulating material for mounting. Do not restrict air circulation around the device. An additional heat sink can be used to maximize the performance and life time.

OUTLINE DRAWING

