

LQ Series Laser Module

Part No: LQB-1-635



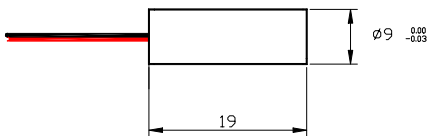
Product Features

- High Stability and low noise
- Collimated Beam
- Reverse Polarity Protection
- Low Cost

Application

- Measurement
- Automation
- Alignment

Mechanical Drawing



Operational Hazard-Semiconductor Laser Diode Module:

This laser module emits radiation that is visible 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.

Specification

OPTICAL

| | |
|-------------------------------|-------------------|
| Wavelength | 635 nm |
| Optical Output Power | <1 mW |
| Stability | <1% |
| Wavelength Drift | 0.2nm/°C |
| Laser Class | Class II |
| Laser Operation | Continuous |
| Laser Structure | Single Mode Laser |
| Divergence at the collimation | 2 milliradian |
| Spot Size | 3 mm |

ELECTRICAL

| | |
|------------------------|--------------------|
| Operating Voltage | 3 to 5 VDC |
| Operating Current | < 60 mA |
| Control Circuit | Auto Power Control |
| Electrical Connections | +Red, -Black |

MECHANICAL

| | |
|-------------------------|------------------------------|
| Dimension | 9mm(D)x 19mm (L) |
| Cable | 380 mm |
| Operating Temperature | -10°C to +50°C |
| Storage Temperature | -40°C to +80°C |
| Heat Sink Requirements* | Recommended for extended use |

Notes

* Heat Sink: The LQ Series Laser Module is designed to operate without heat sink. Do not restrict air circulation around the device; an additional heat sink can be used to maximize the performance and life time of the laser.

Caution: The case is internally connected to the circuit; damage to the anodized surface may result in failure of the laser module.



Complies with CDRH 21CFR 1040.10