


DATASHEET
**FEATURES**

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

APPLICATIONS

- ✓ Measurement
- ✓ Bioanalytical
- ✓ Automation and 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	650 nm
Optical Output Power	< 1 mW
Stability	< 1% (At Constant Temperature)
Laser Class	Class II
Noise (20 MHz Bandwidth)	< 0.5% RMS
Laser Operation	Analog Modulation
Laser Structure	Single Mode Laser
Spot Size	5 mm (Collimated)
Laser Focus Distance	Collimated
Pointing Stability	< 50 μ rad

ELECTRICAL

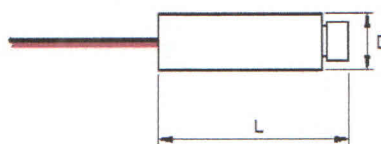
Operating Voltage	3.3 to 5 VDC
Operating Current	< 50 mA
Analog-Control Voltage	0.3 to 2.75 V (Yellow wire +)
Electrical Connections	Power: Red (+) and Black (-) Control voltage: Yellow (+)

MECHANICAL

Dimension	12 mm (D) x 52 mm (L)
Cable	200 mm
Operating Temperature	-10°C to +70°C
Storage Temperature	-40°C to +80°C
Heat Sink Requirements*	Recommended

Notes

*Heat Sink: The UH Series Red Laser Line Module is designed to dissipate heat through its body. Do not restrict air circulation around the device; an additional heat sink can be used to maximize the performance of the laser.

Mechanical Drawing**Laser Power-Voltage Curve**