

# UHL Series Infrared Laser Line Module

Part No: UHL5-50P-780-45



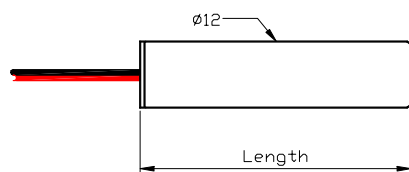
## Product Features

- High Stability and low noise
- Collimated or Adjustable focus beam
- Reverse Polarity Protection
- Custom Options Available

## Application

- Measurement
- Bioanalytical
- Automation
- Alignment

## Mechanical Drawing



## Specification

### OPTICAL

Wavelength	780 nm
Optical Output Power	50 mW
Stability	<1%
Laser Class	IIIb
Wavelength Drift	0.2nm/°C
Noise (20MHz Bandwidth)	<0.5% RMS
Laser Operation	Continuous
Laser Structure	Single Mode Laser
Fan Angle	45 Deg
Line Thickness	Fixed, uniform
Minimum Line Thickness	<2mm up to 1.5 meter
Pointing Stability	<50µrad

### ELECTRICAL

Operating Voltage	3 to 5 VDC
Operating Current	<200 mA
Control Circuit	Auto Power Control
Electrical Connections	+Red, -Black

### MECHANICAL

Dimension (Dia * Length)	12mm * 49mm
Cable	200mm
Operating Temperature	-10°C to +50°C
Storage Temperature	-40°C to +80°C
Heat Sink Requirements*	Recommended

### Notes:

\* Heat Sink: The UHL Series Infrared 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 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.



**UHL Series Infrared Laser System does not comply with CDRH1040.10.** It is sold only for use in OEM equipment. The OEM is responsible for compliance with all applicable safety regulations.

**Operational Hazard-Semiconductor Laser Diode Module:** This laser module emits radiation that is 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.