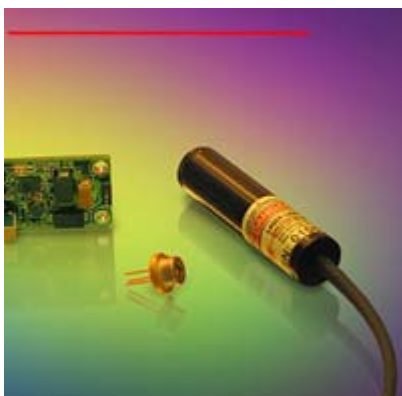


# UHL Series Red Laser Line Module

Part No: UHL5-7P-650-45



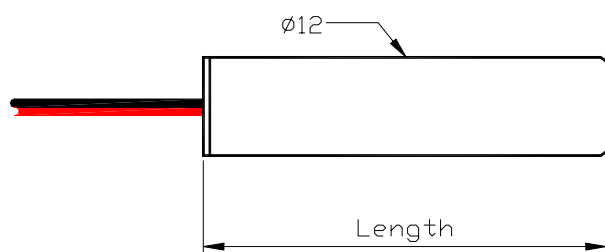
## Product Features

- 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	650 nm
Optical Output Power	7 mW
Stability	<1%
Laser Class	II (FDA), 2M (IEC)
Wavelength Drift	0.2nm/°C
Noise (20MHz Bandwidth)	<0.5% RMS
Laser Operation	Continuous
Laser Structure	Single Mode Laser
Fan Angle	45 degree
Line Thickness	Uniform, Fixed
Minimum Line Thickness	<1mm up to 1 meter
Pointing Stability	<50 $\mu$ rad
ELECTRICAL	
Operating Voltage <sup>1</sup>	3 to 5 VDC
Operating Current	<120 mA
Control Circuit	Auto Power Control
Electrical Connections	+Red, -Black
MECHANICAL	
Dimension (Dia * Length)	12mm * 56mm
Cable	200mm
Operating Temperature	-10°C to +50°C
Storage Temperature	-40°C to +80°C
Heat Sink Requirements <sup>2</sup>	Recommended

### Notes

Heat Sink: The UHL 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 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

**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.