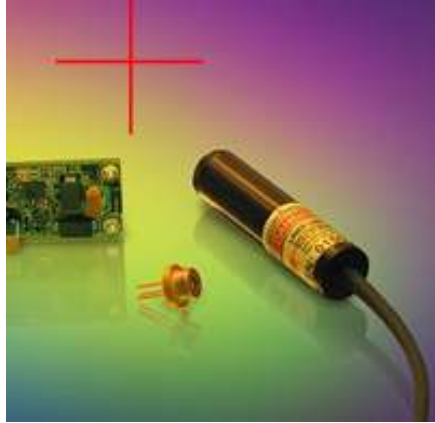


# UCH Series Infrared Laser Cross Line Module



Part No: UCH5-50G-780-25



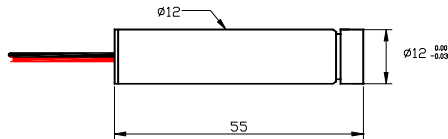
## Product Features

- Perfectly Straight Cross-line
- High Stability and low noise
- Adjustable focus
- Reverse Polarity Protection

## Application

- Measurement
- Targeting
- Automation
- Alignment

## Mechanical Drawing



**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.

## Specification

OPTICAL	
Wavelength	780 nm
Optical Output Power	50 mW
Stability	<1%
Wavelength Drift	0.2nm/°C
Noise (20MHz Bandwidth)	<0.5% RMS
Laser Class	Class IIIB
Laser Operation	Continuous
Laser Structure	Single Mode Laser
Fan Angle	25° full fan angle
Cross Line Length(L)	0.4433X D (Distance)
Line Thickness	Adjustable
Minimum Line Thickness	<1mm up to 1 meter
Pointing Stability	<50µrad
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	12mm(D)X55mm(L)
Cable	200mm
Operating Temperature	-10°C to +50°C
Storage Temperature	-40°C to +80°C
Heat Sink Requirements <sup>2</sup>	Recommended for extended use

### Notes

1. Please ensure there is no voltage/current surge
2. Heat Sink: The UCH Series Infrared Laser Cross Line 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.



Sold for OEM use only. OEM responsible for compliance with all applicable regulations

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