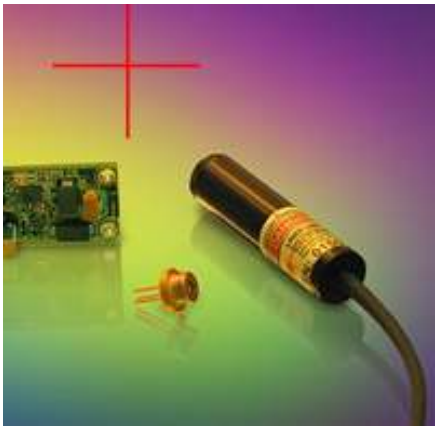
UCH Series Red Laser Cross Line Module

Part No: UCH5-25G-635-25



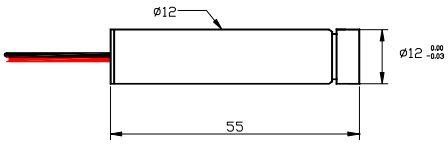
Product Features

- 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 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	25 mW
Stability	<1%
Wavelength Drift	0.2nm/°C
Noise (20MHz Bandwidth)	<0.5% RMS
Laser Class	Class IIIA
Laser Operation	Continuous
Laser Structure	Single Mode Laser
Fan Angle	25º 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[1]	3 to 5 VDC
Operating Current	< 100 mA
Control Circuit	Auto Power Control
Electrical Connections	+Red, -Black
MECHANICAL	
Dimension	12mm(D)X55mm(L)
Cable	200mm
Operating Temperature	-10ºC to +50°C
Storage Temperature	-40ºC to +80°C
Heat Sink Requirements[2]	Recommended for extended use

Notes

1. Please ensure there is no voltage/current surge
2. Heat Sink: The UCH Series Red 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.

Complies with CDRH 21CFR 1040.10

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