

DATASHEET



FEATURES

- ✓ Perfectly Straight Cross-line
- ✓ Adjustable Focus Beam
- ✓ High Visibility Beam
- ✓ ESD & Reverse Polarity Protected

APPLICATIONS

- ✓ Measurement
- ✓ Automation
- ✓ Alignment & Targeting

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	658 nm
Optical Output Power	50 mW
Laser Power Stability (with heat sink)	< 1%
Wavelength Drift	0.2nm/°C
Laser Class	Class 3B
Laser Operation	Continuous
Laser Structure	Single Mode Laser
Divergence (at collimation)	< 1 mrad
Fan Angle	25 deg full fan angle
Cross Line Length	0.4433XD (distance)
Line Thickness	Adjustable
Minimum Line Thickness	< 1mm upto 1m

ELECTRICAL

Operating Voltage	3-5V DC
Operating Current	< 90 mA
Control Circuit	Auto Power Control
Electrical Connections	+ Red, - Black

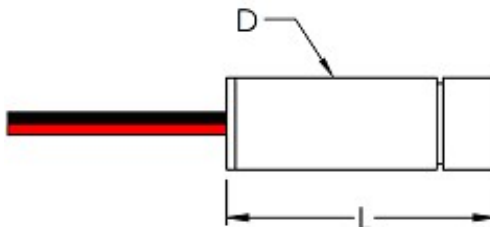
MECHANICAL

Dimension, mm	12mm (D)X 55mm (L)
Cable	200mm
Operating Temperature	+10°C to +40°C
Storage Temperature	-40°C to +80°C
Heat Sink Requirements	Recommended for extended use

Notes: This laser is designed to dissipate heat through its body. Do not use a thermally insulating material for mounting. Do not restrict air circulation around the device. An additional heat sink can be used to maximize the performance and life time.

Caution: The case is internally connected to the circuit. Damaging the anodized surface may result in failure of the laser module

OUTLINE DRAWING



Information contained herein is deemed reliable and accurate as of the issue date. WORLD STAR TECH reserves the right to change the design or specification at any time without notice.