

Features

- ▶ Typical wavelength, 690nm
- ▶ Stabilized optical power 20mW
- ▶ Single supply voltage, 5V DC
- ▶ **Line generator : Cylindrical glass lens**
- ▶ **Precisely adjustable line thickness**
- ▶ **3 elements optic structure**
(2 lens fixed, 1 lens mobile)
- ▶ **Modulation : digital, analog ~300KHz**
- ▶ **Wire length : 30cm(standard) or custom**
- ▶ **Laser class : 3R, 3B (IEC 60825-1)**
- ◆ **Option : Bracket & Power supply.**

Specification

● Optical

| | |
|-------------------------|---------------------|
| Optical power(mW) | 20 (Tc=25°C) |
| LD power(mW) | 35 (Max) |
| Wavelength(nm) | 690 ±5 |
| Focus Beam Wid(mm) | < 0.1 (at 300mm) |
| Collimated Beam Wid(mm) | <3 (at 10m) |
| Fan Angle (°) | 15,30,45,60,90, 120 |
| Line Pattern | Accurate Straight |
| Beam Quality | TEM00 |
| Beam intensity Pattern | Gaussian |
| LD Pin Connection | Case Ground |

Electrical

| | |
|-------------------------|------------|
| Operating voltage(DC V) | 5 ± 5% |
| Operating current(mA) | 110 (Typ.) |
| Drive circuit | APC |
| Operating Temp.(°C) | -10 ~ +60 |
| Storage Temp.(°C) | -40 ~ +85 |

Mechanical

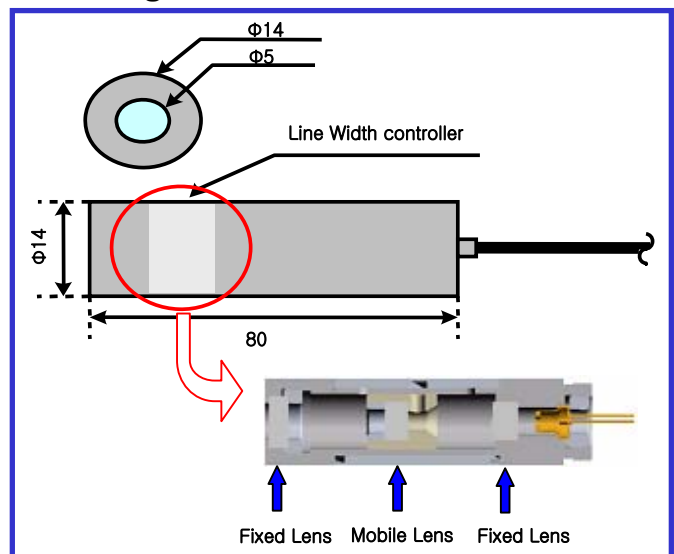
| | |
|-----------------------|---------------------|
| Weight(g) | 26 ± 0.5 |
| Dimensions(mm) | 14Φ X 80 |
| Operating lifetime(h) | 30,000~50,000 (@RT) |
| Housing material | Aluminum |

Description

The MS series laser diode module combines laser diode technology, 3 elements lens optics, and sophisticated electronics within a slim and light aluminum anodized housing. Specially, 3 lens structure compensates line beam's curve & unbalance and dot beam's accurate focused point.

This series of modules provides a high-brightness elliptical laser line, and have various wavelengths and optical output power. Applications include a measurement, positioning, lighting, alignment, guidelines, pointing, switching, leveling, and machine vision etc. Useful in a variety of medical, industrial, and scientific instrumentation, as well as general R&D work.

Drawings



* Range of fan angle

| Symbol | Angle | Line length [mm] (distance 1m) | |
|--------|-------|----------------------------------|----------------|
| | | Perpendicular | Inclined at45° |
| 1D | 15° | 250 | 500 |
| 3D | 30° | 500 | 1200 |
| 4D | 45° | 830 | 2000 |
| 6D | 60° | 1160 | 3500 |
| 9D | 90° | 2000 | About 5000 |
| 12D | 120° | 3400 | About 8000 |

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