

Multi Mode Fiber Coupled Laser Module

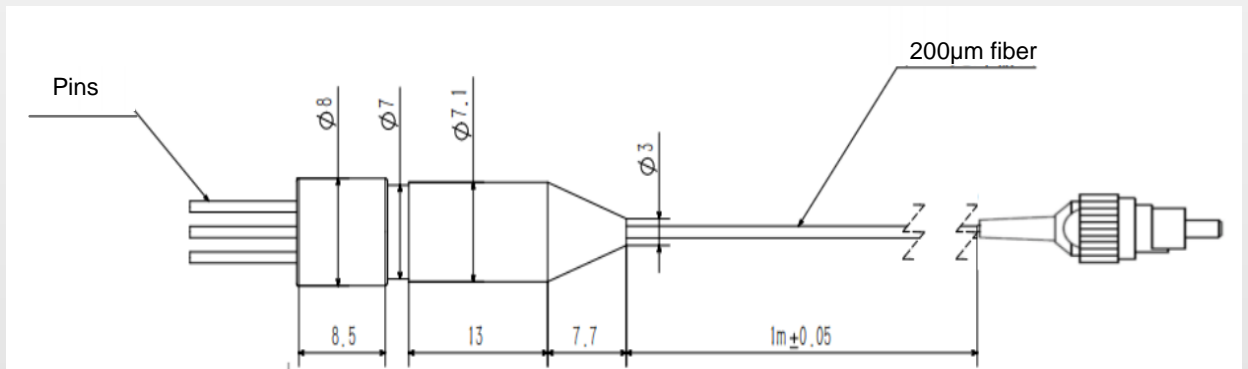


Features

- 450nm Diode Laser
- 200 μ m MMF Fiber
- Fast Rise Time

| Model Number | B450-MMF80 |
|----------------------------------|----------------------|
| Center Wavelength ⁽¹⁾ | 450nm |
| Operating Voltage (DC) | 5.5 V |
| Operating Current | Typ: 110mA Max:130mA |
| Output Power ⁽¹⁾ | 80 mW |
| Fiber coupling efficiency | 85% |

Dimensions (Unit: mm)



⁽¹⁾ after fiber, at 25°C

- Customer is responsible for suitable heat sinking

Specifications

| Mechanical Specifications | | Min | Typ | Max |
|---------------------------------------|---------------|------------------------------------|------------|------------|
| Laser Head | Diameter (mm) | - | 8 | - |
| | Length (mm) | - | 29.2 | - |
| | Weight (g) | - | 10 | - |
| Housing Material | | SUS304 | | |
| Optical Specifications | | Min | Typ | Max |
| Center Wavelength @25°C | | 445 | 450 | 455 |
| Spectral Width(FWHM) | | - | 2 | - |
| Output Power(mW)@25°C | | - | 80 | - |
| Power Stability @25°C over 1h | | - | ±3% | ±5% |
| M ² | | - | 2.1 | 2.5 |
| Longitudinal Mode | | Multi Mode Fiber | | |
| Output Power Mode | | CW | | |
| Laser Class | | 3B | | |
| Fiber Specifications | | Min | Typ | Max |
| Fiber Type | | 200/220um with 900um loose tube | | |
| Fiber Numerical Aperture | | - | 0.22 | - |
| Fiber Length (m) | | | 1 | |
| Fiber Termination | | FC/SMA905/ST/2.5 ferrule available | | |
| Reliability | | Min | Typ | Max |
| Operating Case Temperature Range (°C) | | -10 | - | 60 |
| Storage Temperature (°C) | | -40 | - | 85 |
| Environmental Humidity (RH, %) | | 5 | - | 85 |
| RoHS Compliance Declaration | | Yes | | |

Beam Picture



Fiber Connector Picture

