



MM650-5I

• 650nm 5mW laser module •

Product Description

MM650-5I is a 650nm laser module using a 650nm MOCVD grown laser diode with quantum well structures. It is an ideal light source for bar code reader, measurement and medical applications.

Features

- APC control (Automatic power control)
- Slow start circuit
- Adjustable focus lens
- Aspherical lens
- Package Type: 6.4mm x 17.0mm (OD x Length)

▪ Absolute Maximum Rating (Tc=25°C)

| Characteristics | Symbols | Rating | Unit |
|-----------------------|---------|------------|------|
| Optical power | Po | 5 | mW |
| Operating Temperature | Top | -10 to +50 | °C |
| Storage Temperature | Tstg | -25 to +75 | °C |

▪ Electrical and Optical Characteristics (Tc=25°C)

| Characteristics | Symbols | Min | Typ | Max. | Unit | Condition |
|-------------------------|---------------------------------|-----|-----|------|-------|-----------|
| Optical Power | Po | - | 4.2 | 5.0 | mW | - |
| Operating Current | Iop | - | 22 | 35 | mA | Po=5mW |
| Operating Voltage | Vop | - | 3.0 | 5.0 | Volts | Po=5mW |
| Lasing Wavelength | λ | 640 | 650 | 660 | nm | Po=5mW |
| Dimension (OD x length) | 6.4mm x 17mm | | | | | |
| Divergence angle | 1.6 mrad | | | | | |
| Wire length | 6" (28awg) | | | | | |
| Spot size | <9.0mm at 10m | | | | | |
| Polarity | Orange (+), Black (-), Case (+) | | | | | |
| MTTF | >10000 hours @5mW 25°C | | | | | |

FDA/CDRH classification: Class IIIa