



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