

# M650-5I

• 650nm 5mW laser module •

## Product Description

M650-5I 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: 10.4mm 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	-	20	25	mA	Po=5mW
Operating Voltage	Vop	3.0	-	6.0	Volts	Po=5mW
Lasing Wavelength	$\lambda$	640	655	660	nm	Po=5mW
Divergence angle	1.6 mrad					
Spot size	<9.0mm at 10m					
MTTF	>8000 hours @5mW 25°C					

