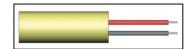


VLM650-11-LPT



TECHNICAL DATA

Red diode laser module

VLM650-11-LPT is a multi purpose small size red diode laser module featuring a fixfocus acrylic lens, with integrated APC circuitry for long time stable operation

Features

- Small size (Ø 10.52 x 30.00 mm)
- Fixfocus acrylic lens
- APC (auto power control)
- Low current consumption
- E.S.D. protection 15 KV
- Laser class II

Absolute Maximum Ratings ($T_C=25$ °C)

Item	Symbol	Value	Unit
Power Supply Voltage	V_{CC}	3 5	V
Output Power	Po	<1	mW
Operating Temperature	T _C	-10 +40	°C
Storage Temperature	T_{stg}	-20 +60	°C

Specifications (Tc=25°C, Po<5mW, Vcc=6V)

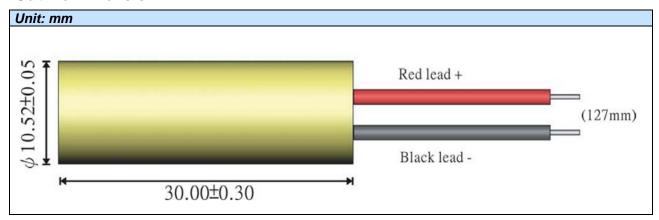
	Min.	Тур.	Max.	Unit		
Optical						
Center Wavelength λ _C	645	650	665	nm		
Output Power	-	-	1.0	mW		
Divergence angle	0.5			mrad		
Beam Size at 5M / 20M	2.5 ±0.5 / 10 ±1			mm		
Electrical						
Current draw	-	-	35	mA		
Supply voltage	3.0	-	5.0	V		
General						
Body	Brass					
Dimensions	10.52 x 30.00			mm		
Lens	Aspherical acrylic, Ø 10 mm					
Mean time to failure (MTTF)	10000			h		

The above specifications are for reference purpose only and subjected to change without prior notice





Outline Dimension:



Cautions

- 1. Do not operate the device above the macimum rating condition, even momentarily. It may cause unexpected permanent damage to the device.
- 2. Semiconductor laser device is very sensitive to electrostatic discharge. High voltage spike current may change the characteristics of the device, or malfunction at any time during its sercice periode. Therefor, proper measures for precenting electrostatic discharge are strongly recommended.
- 3. Do not look into the laser beam directly with the naked eyes. The laser beam may cause severe damage to human eyes.

