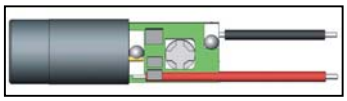
ROITHNER LASERTECHNIK GmbH
WIEDNER HAUPTSTRASSE 76 1040 VIENNA AUSTRIA
TEL. +43 1 586 52 43 -0, FAX. -44, OFFICE@ROITHNER-LASER.COM

VLM650-04-LPA



TECHNICAL DATA

Red diode laser module

VLM650-04-LPA 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 6.55 x 21.10 mm)
- Fixfocus acrylic lens
- APC (auto power control)
- Low current consumption
- E.S.D. protection 15 KV

Absolute Maximum Ratings (T_C=25°C)

Item	Symbol	Value	Unit
Power Supply Voltage	V_{CC}	3 … 5	V
Output Power	P_O	<5	mW
Operating Temperature	T_C	+15 … +30	°C
Storage Temperature	T_{stg}	-20 … +65	°C

Specifications (T_C=25°C, P_O<5mW, V_{CC}=6V)

	Min.	Typ.	Max.	Unit
Optical				
Center Wavelength λ_C	645	650	665	nm
Output Power	-	-	5.0	mW
Divergence angle		1.2		mrad
Beam Size at 5M		6 ±1		mm
Electrical				
Current draw	-	-	25	mA
Supply voltage	3.0	-	5.0	V
General				
Body		Zinc alloy		
Dimensions		6.55 x 21.10		mm
Lens		Aspherical acrylic, Ø 5 mm		
Mean time to failure (MTTF)		2000		h

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

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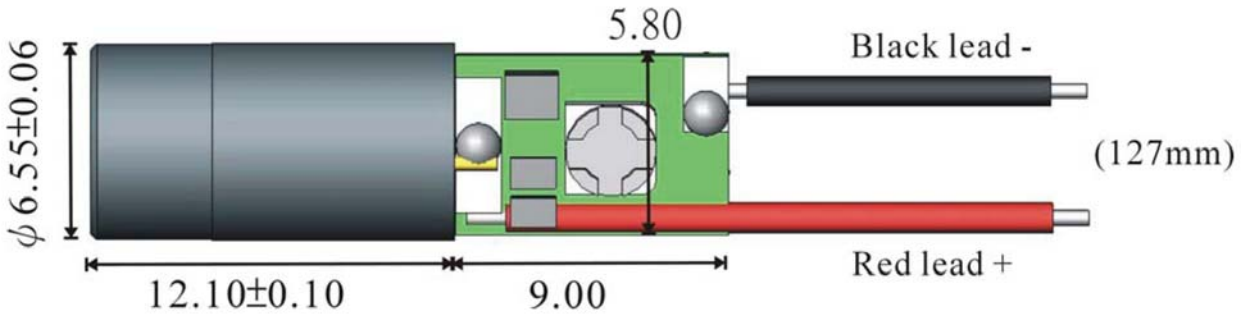
Outline Dimension :

Unit: mm



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.