

Mini-Size Red Dot Laser

VLM-650-22 Series (Glass Lens)



FEATURES:

- This module has integrated optic, laser diode, and APC driver circuit.
- APC Driver Circuit enables the Laser output power safe and constant.
- Glass lens provides Dot Laser.
- Dimensions : Ø4 x 15 mm (Ø0.157" x 0.59")
- Wavelength : 645~660nm
- Laser power output : LPA Class IIIa less than 3.5mW.

LPT - Class II – less than 1mW.

- Beam Divergence (Half Angle) : 2.5 mRad
- 3~6 VDC operation.
- Connection type : Lead wire

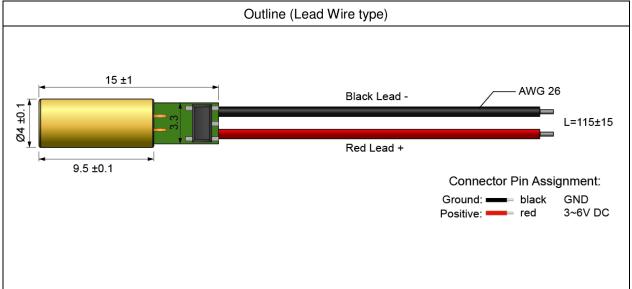
APPLICATIONS:

- Mini-Size Red Dot Laser Module for positioning, measuring, pointing and laser sighting device.
- Wood processing.
- Metal processing.
- Stone processing.
- Textile industry.
- Food industry.
- Automotive industry.
- Medical science.

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VLM-650-22 Series

OUTLINE DIMENSIONS (UNITS: mm)



SPECIFICATIONS

SPECIFICATIONS		VLM-650-22		
		LPT	LPA	
1	Dimensions	Ø4 x 15 mm (Ø0.157" x 0.59")		
2	Operating voltage (Vop)	3~6 VDC		
3	Operating current (lop)	Less than 25mA	Less than 30mA	
4	Laser power output	0.7±0.2mW	3±0.5mW	
5	Laser class	Class II	Class IIIa	
6	Wavelength at peak emission (λp)	645~660nm		
7	Output aperture	2.1mm		
8	Collimating lens	Aspherical glass lens		
9	Beam shape	Ellipse		
10	Spot size at 5M	10±1 mm		
11	Divergence (Half Angle)	2.5 mRad		
12	Beam alignment	Less than 3°		
13	Operating temp. range*	-10°C ~+50°C		
14	Storage temp. range	-20°C ~+65°C		
15	Housing	Brass		
16	Potential of housing**	VDD(+)		
17	Electrostatic discharge (ESD)	20KV		
18	Moisture sensitivity level (MSL)	Level 1 - acc to JEDEC J-STD-020E.		

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19	Connection type	1007-26 AWG	
20	Cable length	115±15mm	
21	Mean time to failure (MTTF) 25°C	5000hrs	
22	Application	Small size	
23	Suggestion work distance	1~10 meters / 3~40 feet	

* Operation temperature: it means within this temperature range, the laser spot/line will not be affected to change the spot size/line width. It can still work over this range, but the laser spot size or laser line width will be larger.

** Laser module housing is an electrical positive surface, it is imperative that contact between the laser module and the machine be avoided. This is to prevent damage from the machine electrical leakage. Surge protected power supply to the laser module is strongly recommended.

ORDER CODE

Order Code	Wavelength	Laser Power Output	Laser Class	Connection Type
VLM-650-22 LPA	650 nm	Less than 3.5mW	Class IIIa	Lead Wire
VLM-650-22 LPT	650 nm	Less than 1mW	Class II	Lead Wire

SAFETY LABEL

LPT:



LPA:



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