

Industrial Use Laser

VLM-650-00



FEATURES:

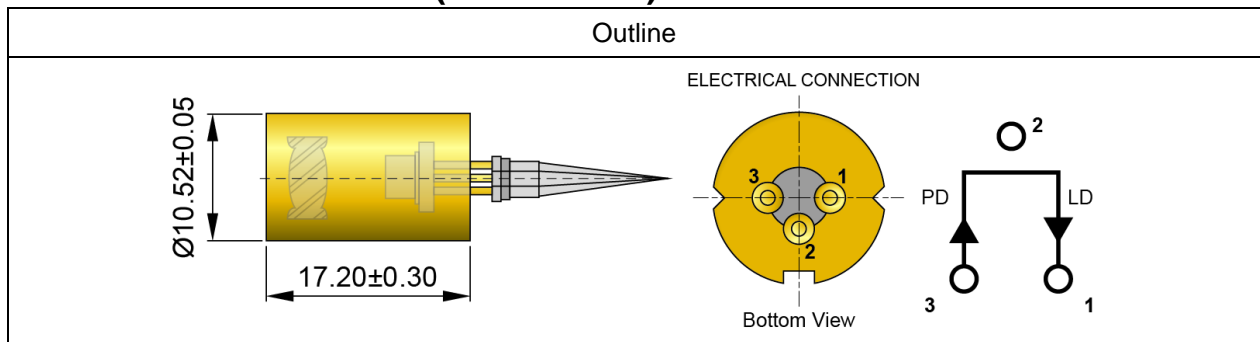
- Industrial Red Dot Laser.
- Adjustable focus Laser module without Driver Circuit. Users can adapt their own APC driver circuit for professional applications.
- This module has integrated optic, Laser diode.
- Includes patented solid brass structure for the best shock resistance and better heat transfer consideration.
- Aspherical plastic lens provides Dot Laser.
- Dimensions : Ø10.52 x 17.2 mm (Ø 0.414" x 0.677").
- Wavelength : 650 nm
- Beam Divergence (Half Angle) : 0.5 mRad
- Maximum Operating current : 35mA
- Can be modulated up to 500 KHz.

APPLICATIONS:

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

VLM-650-00

OUTLINE DIMENSIONS (UNITS: mm)



SPECIFICATIONS

SPECIFICATIONS		VLM-650-00		
1	Dimensions	Ø10.52 x 17.2 mm (Ø0.414" x 0.677")		
2	Laser diode type	N-type		
3	Parameter	MIN.	TYP.	MAX.
4	Threshold current		20mA	30mA
5	Operating current (Iop)		27mA	35mA
6	Operating voltage (Vop)		2.15V	2.6V
7	Monitor current	0.1mA	0.2mA	0.5mA
8	Wavelength (λp)	650nm	655nm	660nm
9	Optical power output	Less than 2.5mW		
10	Collimating lens	Aspherical plastic lens		
11	Output aperture	5mm		
12	Beam shape	Ellipse		
13	Divergence (Half Angle)	0.5 mRad		
14	Operating temp. range*	+10°C ~+40°C		
15	Storage temp. range	-20°C ~+65°C		
16	Housing material	Brass		
17	Potential of housing**	VDD(+)		
18	Wire type	3*PIN from LD		
19	Mean time to failure (MTTF) 25°C	10000hrs		
20	Application	Lab, without laser driver		

* 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.

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ORDER CODE

Order Code	Wavelength	Optical Power	Wire Type
VLM-650-00	650 nm	Less than 2.5mW	3*PIN from LD