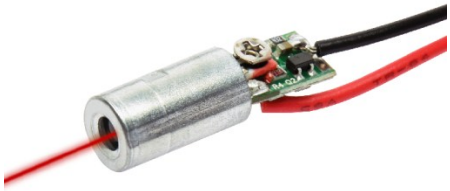
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Economical Laser

VLM-635/650-04 Series

	
Lead Wire Type	Spring Type

FEATURES:

- Economical Red Dot Laser.
- Ideal Laser module if cost is a very important consideration.
- This module has integrated optic, laser diode, and APC driver circuit.
- APC Driver Circuit enables the Laser output power safe and constant.
- Aspherical plastic lens provides Dot Laser.
- Dimensions : Ø6.55 x 21.1 mm (Ø 0.258" x 0.831").
- Wavelength : 635 / 650 nm
- Output power : LPT - Class 2 – less than 1mW
  LPA - Class 3R – less than 2.5mW.
- Beam Divergence (Half Angle) : 0.6 mRad
- 2.6~6 VDC operation.
- Connection type : Lead wire / Spring.

APPLICATIONS:

- Economical Red Dot Laser - Low cost solution for consumer grade positioning, measuring, pointing and laser sighting device.
- Wood processing.
- Metal processing.
- Stone processing.
- Textile industry.
- Food industry.
- Automotive industry.
- Medical science.

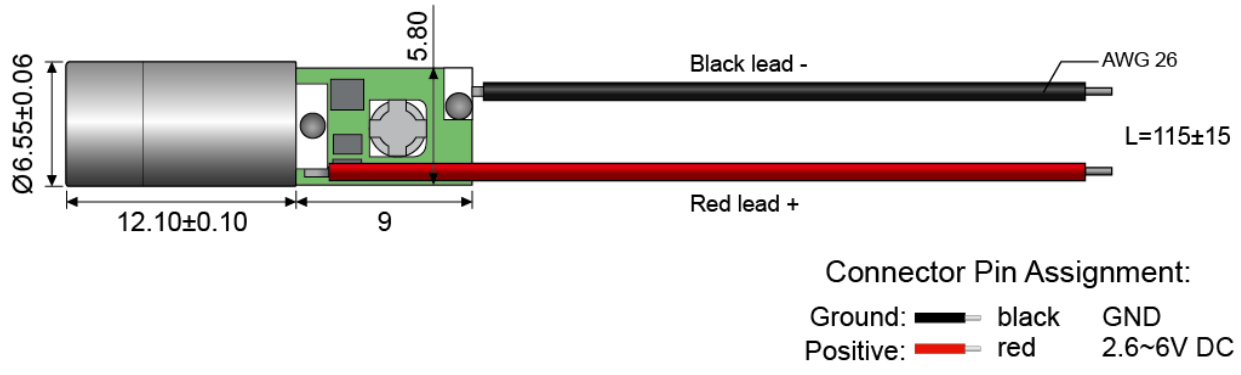
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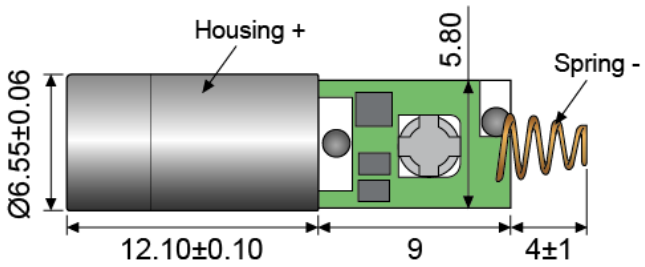
VLM-635/650-04 Series

OUTLINE DIMENSIONS (UNITS: mm)

Outline (Lead Wire type)



Outline (Spring type)



SPECIFICATIONS

SPECIFICATIONS		VLM-635/650-04			
		LPT	**LPA**	**SPT**	**SPA**
1	Dimensions	Ø6.55 x 21.1 mm (Ø0.258" x 0.831")			
2	Operating voltage (Vop)	2.6~6 VDC			
3	Operating current (Iop)	Less than 35mA	Less than 50mA	Less than 35mA	Less than 50mA
4	Laser power output	Less than 1mW	Less than 2.5mW	Less than 1mW	Less than 2.5mW
5	Laser class	Class 2	Class 3R	Class 2	Class 3R
6	Wavelength at peak emission (λp)	635 series - 630~645nm, 650 series - 645~665nm			
7	Collimating lens	Aspherical plastic lens			
8	Output aperture	3mm			
9	Beam shape	Ellipse			
10	Spot size at 5M	Less than 5mm			
11	Divergence (Half Angle)	0.6 mRad			
12	Beam alignment	Less than 3°			
13	Operating temp. range*	+15°C ~+30°C (Room Temperature)			
14	Storage temp. range	-20°C ~+65°C			

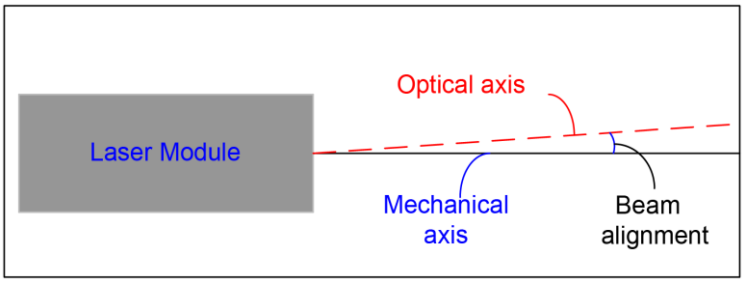
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VLM-635/650-04 Series

15	Housing	Zinc alloy	
16	Potential of housing**	VDD(+)	
17	Electrostatic discharge (ESD)	20KV	
18	Moisture sensitivity level (MSL)	Level 1 - acc to JEDEC J-STD-020E.	
19	Protection circuit	Reversed supply circuit protection, over-current protection, surge protection, short circuit protection	
20	Vibration resistance	10 to 55Hz,1.5mm amplitude for 2 hours each in X, Y and Z direction	
21	Standard	IEC60825:2014	
22	Connection type	1007-26 AWG	Spring
23	Cable length	115±15mm	4±1mm
24	Mean time to failure (MTTF) 25°C	5000hrs	
25	Application	Economic type	
26	Suggestion work distance	1~10 meters / 3~40 feet	

* Beam alignment:



** 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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VLM-635/650-04 Series

ORDER CODE

Order Code	Wavelength	Laser Power Output	Laser Class	Connection Type
VLM-635-04 LPA	635 nm	Less than 2.5mW	Class 3R	Lead Wire
VLM-635-04 LPT	635 nm	Less than 1mW	Class 2	Lead Wire
VLM-635-04 SPA	635 nm	Less than 2.5mW	Class 3R	Spring
VLM-635-04 SPT	635 nm	Less than 1mW	Class 2	Spring
VLM-650-04 LPA	650 nm	Less than 2.5mW	Class 3R	Lead Wire
VLM-650-04 LPT	650 nm	Less than 1mW	Class 2	Lead Wire
VLM-650-04 SPA	650 nm	Less than 2.5mW	Class 3R	Spring
VLM-650-04 SPT	650 nm	Less than 1mW	Class 2	Spring

SAFETY LABEL





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