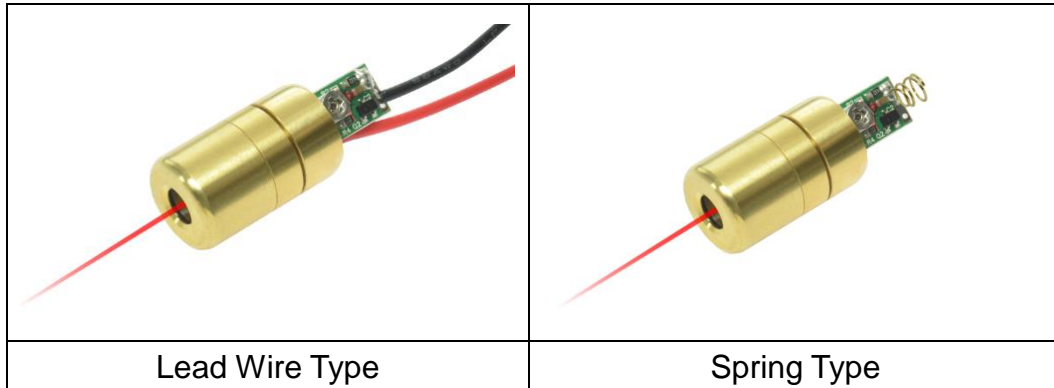


Adjustable Laser

VLM-650-02 Series



FEATURES:

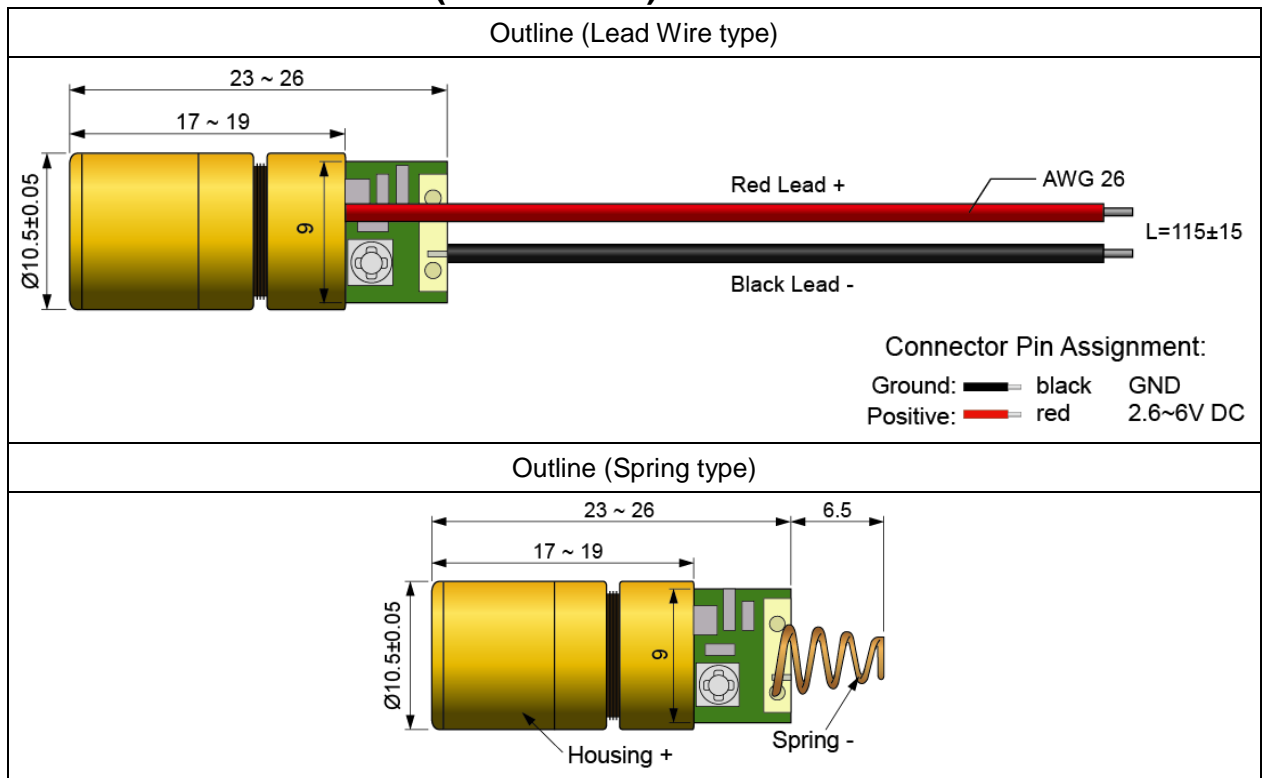
- Industrial Red Dot Laser.
- Adjustable focus (**Focus range 100mm ~ Infinity**) Laser module with APC Driver Circuit inside, ideal for industrial Laser application.
- This module has integrated optic, laser diode, and APC driver circuit.
- APC Driver Circuit enables the Laser output power safe and constant.
- Includes patented solid brass structure for the best shock resistance and better heat transfer consideration.
- Aspherical plastic lens provides Dot Laser.
- Dimensions : Ø10.5 x 26 mm (Ø 0.413" x 1.023").
- Wavelength : 650 nm
- Laser power output : LPT - Class II – less than 1mW
LPA - Class IIIa – less than 3mW.
- Beam Divergence (Half Angle) : 0.5 mRad
- 2.6~6 VDC operation.
- Connection type : Lead wire / Spring.

APPLICATIONS:

- Industrial Red Dot Laser –Adjustable focus function. Ideal for Industrial positioning, measuring, pointing which would need an focusable beam at specific distances.
- Wood processing.
- Metal processing.
- Stone processing.
- Textile industry.
- Food industry.
- Automotive industry.
- Medical science.

VLM-650-02 Series

OUTLINE DIMENSIONS (UNITS: mm)



SPECIFICATIONS

SPECIFICATIONS		VLM-650-02			
		LPT	LPA	SPT	SPA
1	Dimensions	Ø10.5 x 26 mm (Ø0.413" x 1.023")			
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 3mW	Less than 1mW	Less than 3mW
5	Laser class	Class II	Class IIIa	Class II	Class IIIa
6	Wavelength at peak emission (λp)	645~665nm			
7	Collimating lens	Aspherical plastic lens			
8	Output aperture	4mm			
9	Beam shape	Ellipse			
10	Focus range	100mm ~ Infinity			
11	Spot size at 5M	5±1 mm			
12	Divergence (Half Angle)	0.5 mRad			
13	Beam alignment	Less than 3°			
14	Operating temp. range*	+10°C ~+40°C			

VLM-650-02 Series

15	Storage temp. range	-20°C ~+65°C	
16	Housing material	Brass	
17	Potential housing**	VDD(+)	
18	Electrostatic discharge (ESD)	30KV	
19	Moisture sensitivity level (MSL)	Level 1 - acc to JEDEC J-STD-020E.	
20	Connection type	1007-26 AWG	Spring
21	Cable length	115±15mm	6.5±1mm
22	Mean time to failure (MTTF) 25°C	10000hrs	
23	Application	Focus adjustable	
24	Suggestion work distance	1~30 meters / 3~100 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-650-02 LPA	650 nm	Less than 3mW	Class IIIa	Lead Wire
VLM-650-02 LPT	650 nm	Less than 1mW	Class II	Lead Wire
VLM-650-02 SPA	650 nm	Less than 3mW	Class IIIa	Spring
VLM-650-02 SPT	650 nm	Less than 1mW	Class II	Spring

SAFETY LABEL

