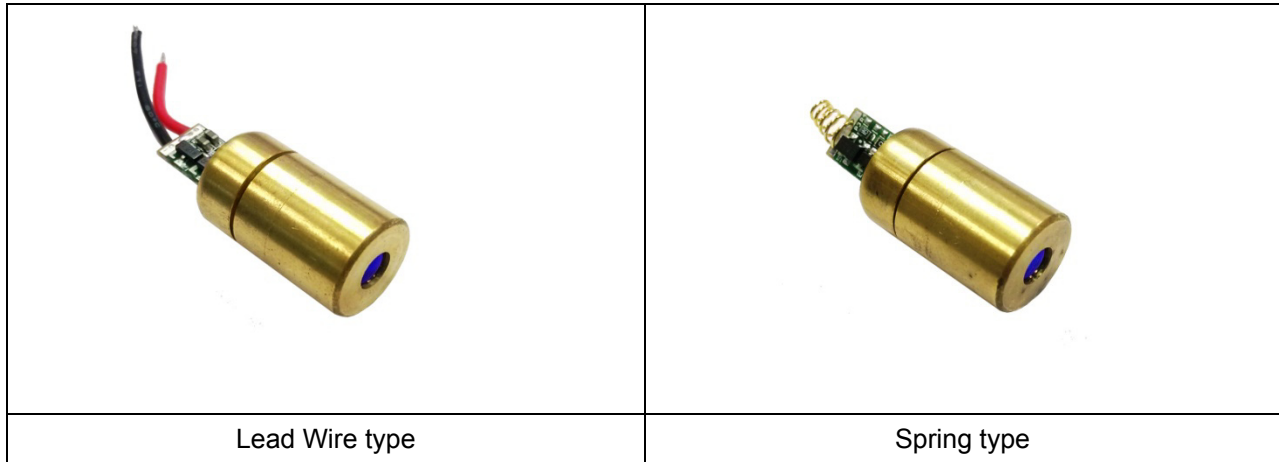


## Adjustable Laser

### VLM-635/650-02G Series



#### FEATURES:

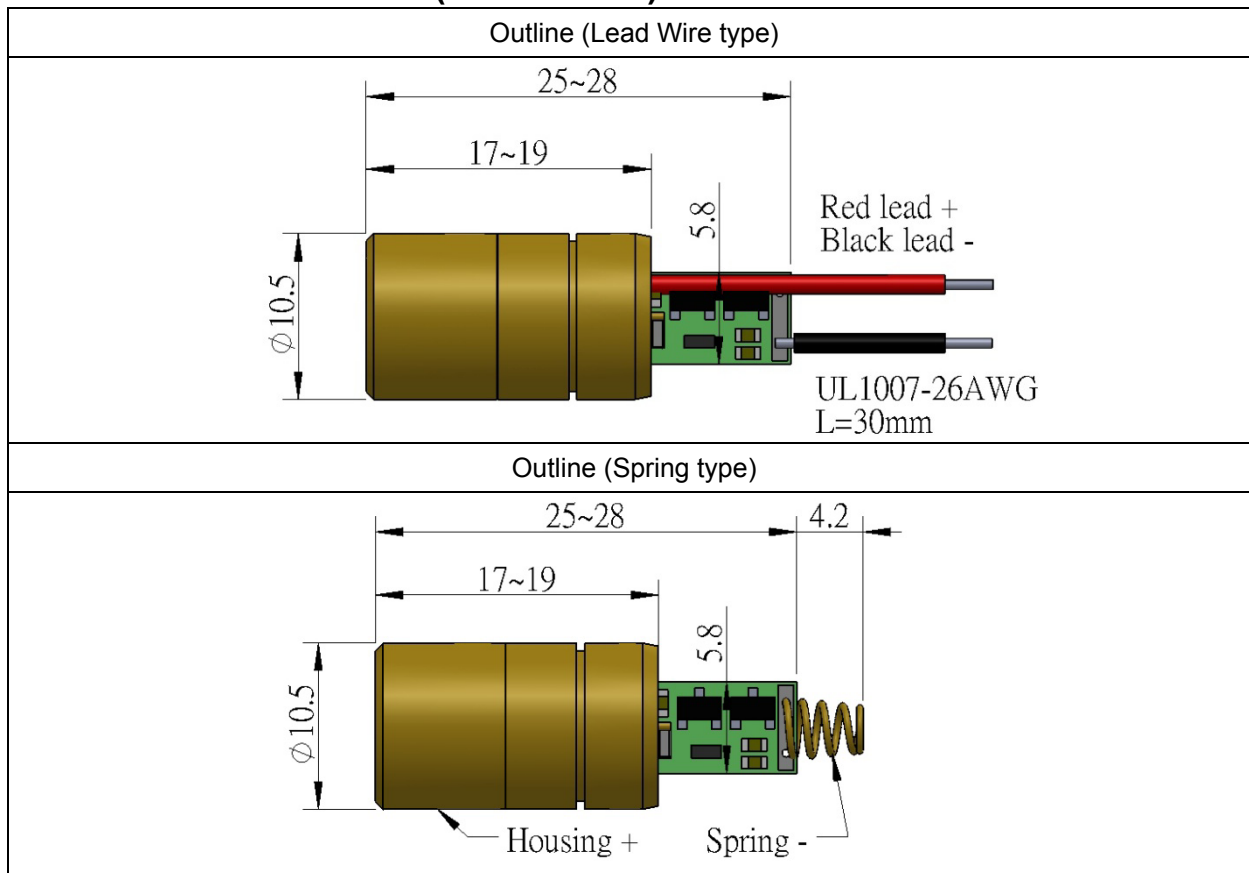
- Industrial Red Dot Laser - **Adjustable focus (Focus range 100mm ~ Infinity)**
- Glass aspherical lens for wide operating temperature range with APC Driver Circuit inside, ideal for industrial Laser application.
- This module has integrated optic, laser diode, and APC driver circuit.
- APC Driver Circuit enables the Laser output power safe and constant.
- Includes patented solid brass structure for the best shock resistance and better heat transfer consideration.
- Utilize Glass Lens, spot-size maintain tight-dot while temperature fluctuate between -20°C ~50°C.
- Dimensions :  $\Phi 10.5 \times 26$  mm ( $\Phi 0.413" \times 1.023"$ )
- Wavelength : 635 / 650 nm
- Output power : Class II – less than 1mW / Class IIIa – less than 5mW.
- Beam Divergence (Half Angle) : 0.4 mRad
- 2.6~5 VDC operation.
- Connection type: Lead wire / Spring.

#### APPLICATIONS:

- Industrial Red Dot Laser - Adjustable focus function with glass aspherical lens for wide operating temperature range. Ideal for Industrial for 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-635/650-02G Series

### OUTLINE DIMENSIONS (UNITS: mm)



### SPECIFICATIONS

SPECIFICATIONS		635-02G	650-02G
1	Dimensions	$\Phi 10.5 \times 26$ mm ( $\Phi 0.413" \times 1.023"$ )	
2	Operating voltage (Vop)	2.6~5 VDC	
3	Operating current (Iop)	< 50mA	< 35mA
4	Continuous wave output power (Po)	LPT<1mW / LPA $\leq$ 2.5mW	
5	Wavelength at peak emission ( $\lambda_p$ )	630~645nm	645~665nm
6	Collimating lens	Aspherical Glass Lens( $\Phi 6.35$ )	
7	Focus Range	100mm ~ Infinity	
8	Spot size at 5M	4 $\pm$ 1 mm	
9	Divergence (Half Angle)	0.4 mRad	
10	Operating temp. range	-20 $^{\circ}$ C ~+50 $^{\circ}$ C	
11	Storage temp. range	-20 $^{\circ}$ C ~+65 $^{\circ}$ C	
12	Housing	Brass	
13	Mean time to failure (MTTF) 25 $^{\circ}$ C	5000hrs	10000hrs

Note : 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.

## VLM-635/650-02G Series

### ORDER CODE

Order Code	Wavelength	Output Power	Connection Type
VLM-635-02G LPA	635 nm	≤ 2.5mW	Lead Wire
VLM-635-02G LPT	635 nm	< 1mW	Lead Wire
VLM-635-02G SPA	635 nm	≤ 2.5mW	Spring
VLM-635-02G SPT	635 nm	< 1mW	Spring
VLM-650-02G LPA	650 nm	≤ 2.5mW	Lead Wire
VLM-650-02G LPT	650 nm	< 1mW	Lead Wire
VLM-650-02G SPA	650 nm	≤ 2.5mW	Spring
VLM-650-02G SPT	650 nm	< 1mW	Spring

### SAFETY LABEL

