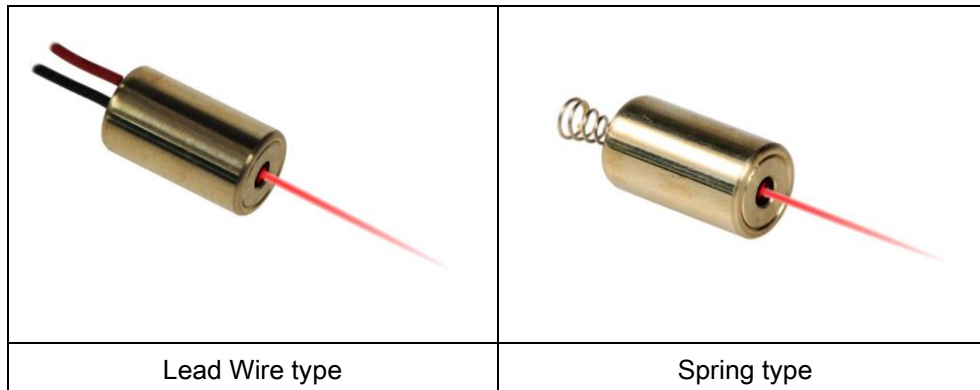


## Industrial Red Dot Laser

### VLM-635/650-01 Series



#### FEATURES:

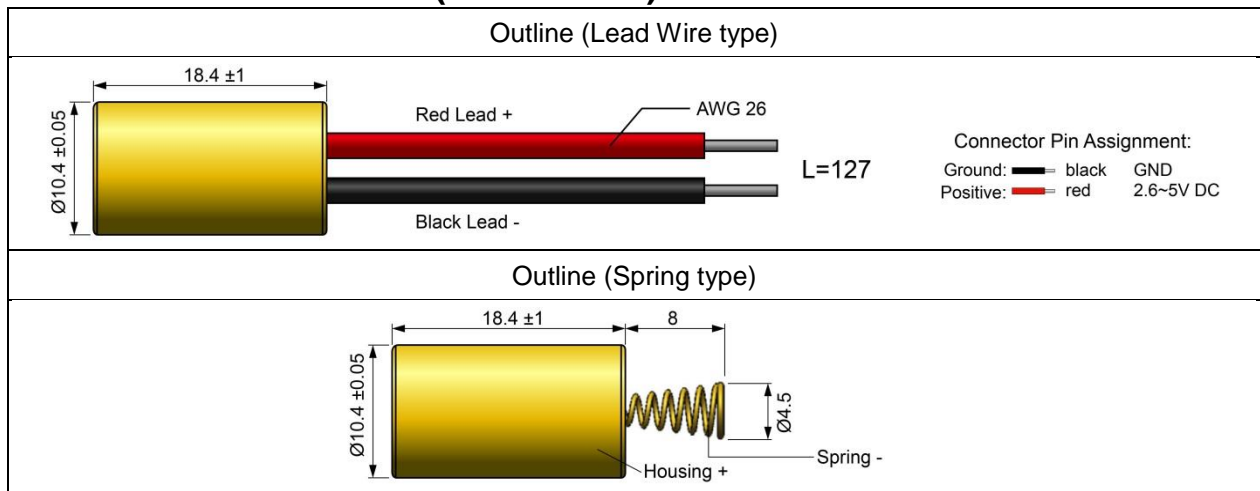
- Industrial Red Dot Laser.
- Basic module, compact size with APC Driver Circuit Inside, ideal for industrial laser application.
- This module has integrated optic, laser diode, and APC driver circuit.
- APC Driver circuit enables the Laser output power safe and constant.
- Includes patented solid brass structure for the best shock resistance and better heat transfer consideration.
- Aspherical plastic lens provides tight Dot Laser.
- Dimensions : Ø10.4 x 18.4mm (Ø0.409" x 0.724")
- Wavelength : 635 / 650 nm
- Laser power output: LPA - Class IIIa – less than 5mW.  
LPT - Class II – less than 1mW.
- Beam Divergence (Half Angle) : 0.5 mRad
- 2.6~5 VDC operation.
- Connection type : Lead wire / Spring.

#### 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-635/650-01 Series

### OUTLINE DIMENSIONS (UNITS: mm)



### SPECIFICATIONS

SPECIFICATIONS		VLM-635-01				VLM-650-01			
		LPT	SPT	LPA	SPA	LPT	SPT	LPA	SPA
1	Dimensions	Ø10.4 x 18.4 mm (Ø0.409" x 0.724")							
2	Operating voltage (Vop)	2.6~5 VDC							
3	Operating current (Iop)	Less than 35mA	Less than 50mA	Less than 35mA	Less than 50mA	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	Less than 1mW	Less than 3mW	Less than 1mW	Less than 3mW
5	Laser class	Class II	Class IIIa	Class II	Class IIIa	Class II	Class IIIa	Class II	Class IIIa
6	Wavelength at peak emission (λp)	630~645nm				645~665nm			
7	Collimating lens	Aspherical plastic lens							
8	Beam shape	Dot							
9	Spot size at 5M	5±1mm							
10	Divergence (Half Angle)	0.5 mRad							
11	Operating temp. range	+10°C ~+40°C							
12	Storage temp. range	-20°C ~+65°C							
13	Beam alignment	<3°							
14	Housing	Brass							
15	Potential of housing	VDD(+)							
16	Connection type	1007-26 AWG	Spring	1007-26 AWG	Spring	1007-26 AWG	Spring	1007-26 AWG	Spring
17	Cable length	127mm	8mm	127mm	8mm	127mm	8mm	127mm	8mm
18	Mean time to failure (MTTF) 25°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-635/650-01 Series

### ORDER CODE

Order Code	Wavelength	Laser power output	Connection Type
VLM-635-01 LPA	635 nm	≤3mW	Lead Wire
VLM-635-01 LPT	635 nm	<1mW	Lead Wire
VLM-635-01 SPA	635 nm	≤3mW	Spring
VLM-635-01 SPT	635 nm	<1mW	Spring
VLM-650-01 LPA	650 nm	≤3mW	Lead Wire
VLM-650-01 LPT	650 nm	<1mW	Lead Wire
VLM-650-01 SPA	650 nm	≤3mW	Spring
VLM-650-01 SPT	650 nm	<1mW	Spring

### SAFETY LABEL

