INFINITER®

Small Spot Laser

VLM-635/650-12 Series

	
Lead Wire type	Spring type

FEATURES:

- Red Small-Spot Dot Laser.
- Small-Spot Laser module for use with high-precision devices.
- 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.
- High-Accuracy Aspherical Plastic Lens provides Small-Spot Dot Laser.
- Dimensions: Φ10.5 x 39 mm (Φ0.413" x 1.535")
- Wavelength : 635 / 650 nm
- Output power : Class II – less than 1mW / Class IIIa – less than 5mW.
- Beam Divergence: 0.25 mRad.
- 2.6~5 VDC operation.
- Connection type: Lead wire / Spring.

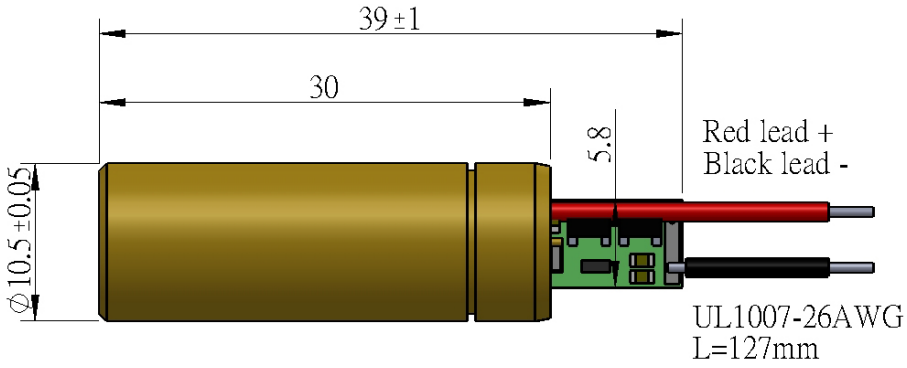
APPLICATIONS:

- Red Small Spot Dot Laser, smaller laser spot for Industrial high-precision positioning, measuring, alignment, leveling, adjusting, targeting and laser sighting device.
- Wood processing.
- Metal processing.
- Stone processing.
- Textile industry.
- Food industry.
- Automotive industry.
- Medical science

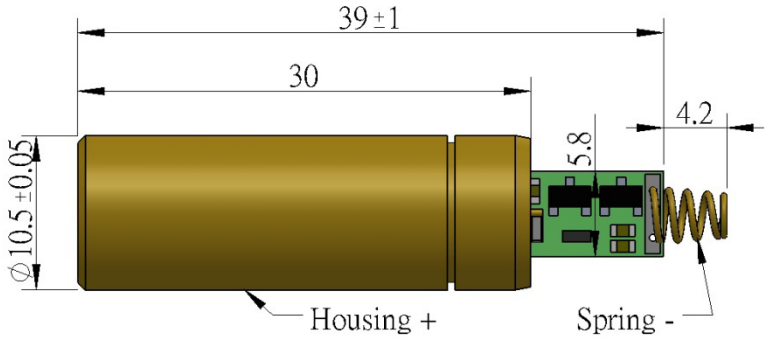
VLM-635/650-12 Series

OUTLINE DIMENSIONS (UNITS: mm)

Outline (Lead Wire type)



Outline (Spring type)



SPECIFICATIONS

SPECIFICATIONS		635-12	650-12
1	Dimensions	Φ10.5 x 39 mm (Φ0.413" x 1.535")	
2	Operating voltage (Vop)	2.6~5 VDC	
3	Operating current (Iop)	< 50mA	< 35mA
4	Continuous wave output power (Po)	LPT<1mW / LPA≦2.5mW	
5	Wavelength at peak emission (λp)	630~645nm	645~665nm
6	Collimating lens	Aspherical Plastic Lens(Ø10)	
7	Spot size at 5M / 20M	2.5±0.5 mm / 10±1 mm	
8	Divergence (Half Angle)	0.25 mRad	
9	Operating temp. range	+10°C ~+40°C	
10	Storage temp. range	-20°C ~+65°C	
11	Housing	Brass	
12	Mean time to failure (MTTF) 25℃	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.

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VLM-635/650-11 Series

ORDER CODE

Order Code	Wavelength	Output Power	Connection Type
VLM-635-12 LPA	635 nm	≦2.5mW	Lead Wire
VLM-635-12 LPT	635 nm	＜1mW	Lead Wire
VLM-635-12 SPA	635 nm	≦2.5mW	Spring
VLM-635-12 SPT	635 nm	＜1mW	Spring
VLM-650-12 LPA	650 nm	≦2.5mW	Lead Wire
VLM-650-12 LPT	650 nm	＜1mW	Lead Wire
VLM-650-12 SPA	650 nm	≦2.5mW	Spring
VLM-650-12 SPT	650 nm	＜1mW	Spring

SAFETY LABEL