

Ultra-Far Range Laser

VLM-635/650-18 Series



FEATURES:

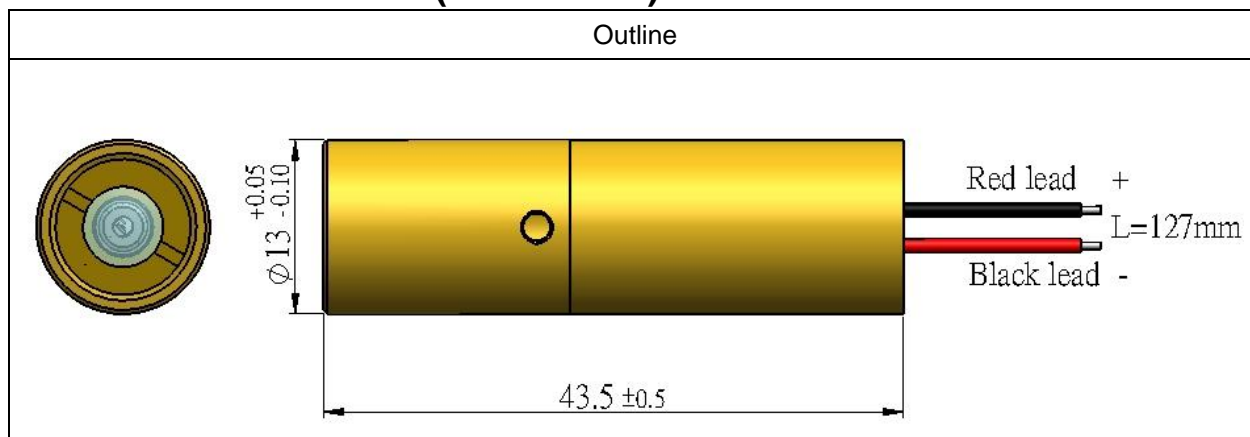
- Ultra-Far Range Dot Laser.
- Diffraction Limited Lens to achieve a near-collimated Laser system, which can be sighted Ultra-Far distance range.
- This module has integrated optic, laser diode, and APC driver circuit.
- APC Driver Circuit enables the Laser output power safe and constant.
- Includes patented solid brass structure for the best shock resistance and better heat transfer consideration.
- Glass-base hybrid lens provides Ultra-Far range Dot Laser.
- Dimensions: $\Phi 13 \times 43.5$ mm ($\Phi 0.512" \times 1.713"$)
- Wavelength : 635/650 nm
- Output power : 2.5mW, Class IIIa.
- Beam Divergence: 0.2 mRad.
- 2.6~5 VDC operation.
- Connection type: Lead wire.

APPLICATIONS:

- Red Dot Laser-glass aspherical lens with long back focus length function to generate smallest spot at long distances. Ideal use for long distance position, targeting, professional laser sight and security monitor.
- Wood processing.
- Metal processing.
- Stone processing.
- Textile industry.
- Food industry.
- Automotive industry.
- Medical science

VLM-635/650-18 Series

OUTLINE DIMENSIONS (UNITS: mm)



SPECIFICATIONS

SPECIFICATIONS		635-18	650-18
1	Dimensions	$\Phi 13 \times 43.5 \text{ mm}$ ($\Phi 0.512" \times 1.713"$)	
2	Weight	27.6g	
3	Operating voltage (Vop)	2.6~5 VDC	
4	Operating current (Iop)	< 50mA	< 35mA
5	Continuous wave output power (Po)	2.5±1mW	
6	Wavelength at peak emission (λ_p)	630~645nm	645~665nm
7	Collimating lens	Glass-base hybrid lens($\Phi 8$)	
8	Output Aperture	6mm	
9	Beam Shape	Dot	
10	Spot size at 40M	< 16 mm	
11	Divergence (Half Angle)	0.2 mRad	
12	Operating temp. range	-20°C ~+50°C	
13	Storage temp. range	-40°C ~+70°C	
14	Housing Material	Brass	
15	Housing Color	Yellow	
16	Potential of Housing	Uninsulated	
17	Wire Type	UL1007-26AWG	
18	Cable length	127mm	
19	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

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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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ORDER CODE

Order Code	Wavelength	Output Power	Connection Type
VLM-635-18 LPA	635 nm	2.5mW	Lead Wire
VLM-650-18 LPA	650 nm	2.5mW	Lead Wire

SAFETY LABEL

