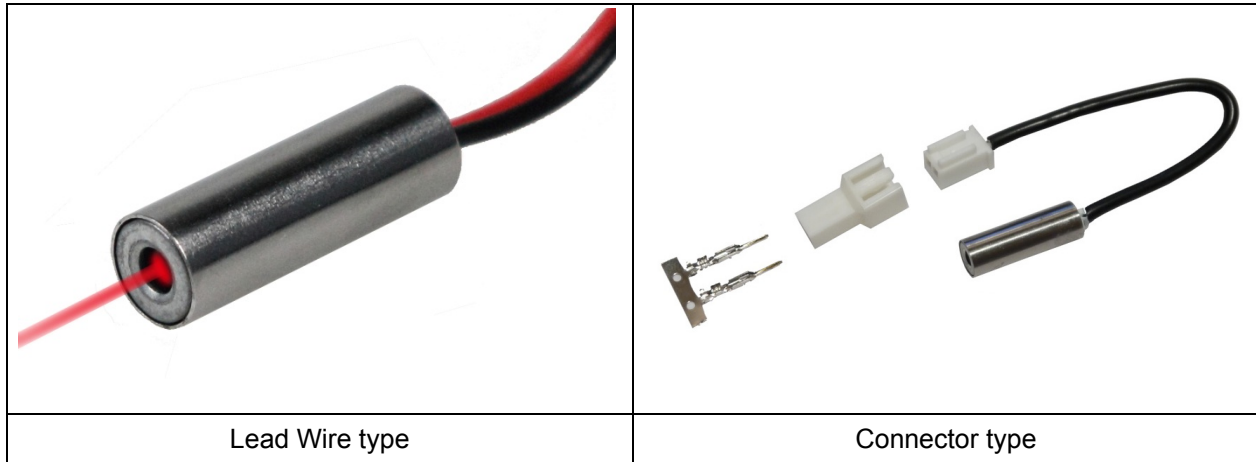


Economical Laser

VLM-635/650-03 Series



FEATURES:

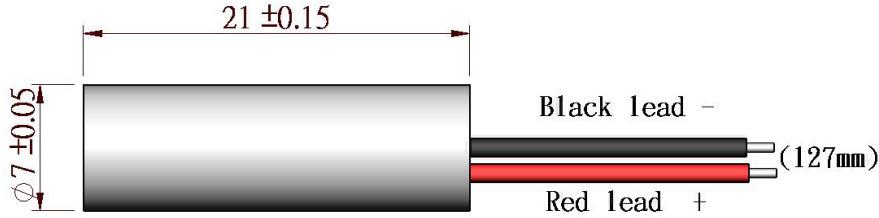
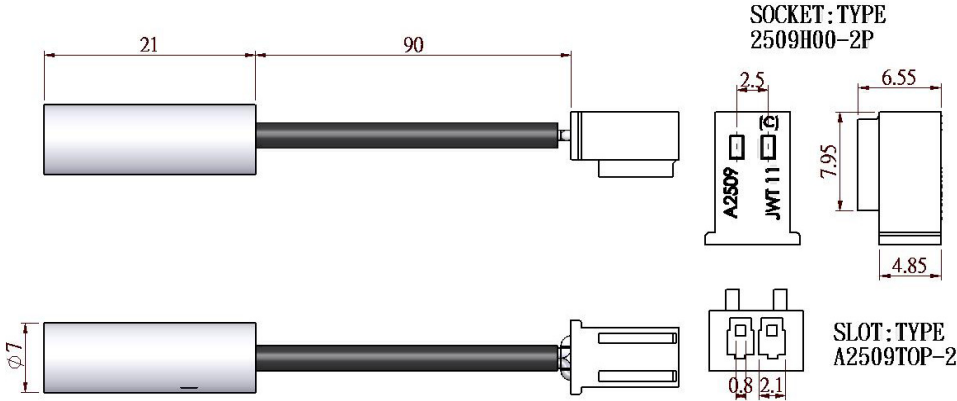
- Economical Red Dot Laser.
- Ideal for economical Laser Pointer solution.
- This module has integrated optic, laser diode, and APC driver circuit.
- APC Driver Circuit enables the Laser output power safe and constant.
- Aspherical plastic lens provides Dot Laser.
- Dimensions: $\Phi 7 \times 21$ mm ($\Phi 0.276" \times 0.827"$)
- Wavelength : 635 / 650 nm
- Output power: Class II – less than 1mW / Class IIIa – less than 5mW.
- Beam Divergence (Half Angle) : 0.6 mRad
- 2.6~5 VDC operation.
- Connection type: Lead wire / Connector.

APPLICATIONS:

- Economical Red Dot Laser - Low cost solution for consumer grade positioning, measuring, pointing and laser sighting device.
- Wood processing.
- Metal processing.
- Stone processing.
- Textile industry.
- Food industry.
- Automotive industry.
- Medical science

VLM-635/650-03 Series

OUTLINE DIMENSIONS (UNITS: mm)

Outline (Lead Wire type)	
	
Outline (Connector type)	
	

SPECIFICATIONS

SPECIFICATIONS		635-03	650-03
1	Dimensions	$\Phi 7 \times 21 \text{ mm}$ ($\Phi 0.276" \times 0.827"$)	
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 (λ_p)	630~645nm	645~665nm
6	Collimating lens	Aspherical plastic lens($\phi 5$)	
7	Spot size at 5M	6 $\pm$ 1 mm	
8	Divergence (Half Angle)	0.6 mRad	
9	Operating temp. range	+15°C ~ +30°C (Room Temperature)	
10	Storage temp. range	-20°C ~+65°C	
11	Housing	Steel	
12	Mean time to failure (MTTF) 25°C	5000hrs	10000hrs

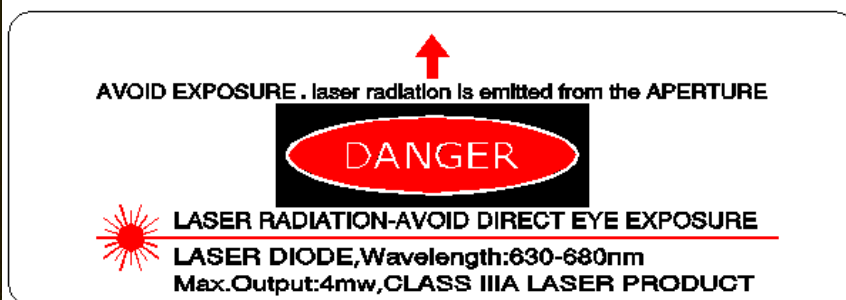
Note : Laser module housing is an electrical positive surface, it is imperative that contact between the laser module and the machine be avoided. This is to prevent damage from the machine electrical leakage. Surge protected power supply to the laser module is strongly recommended.

VLM-635/650-03 Series

ORDER CODE

Order Code	Wavelength	Output Power	Connection Type
VLM-635-03 LPA	635 nm	$\leq 2.5\text{mW}$	Lead Wire
VLM-635-03 LPT	635 nm	$< 1\text{mW}$	Lead Wire
VLM-635-03 CPA	635 nm	$\leq 2.5\text{mW}$	Connector
VLM-635-03 CPT	635 nm	$< 1\text{mW}$	Connector
VLM-650-03 LPA	650 nm	$\leq 2.5\text{mW}$	Lead Wire
VLM-650-03 LPT	650 nm	$< 1\text{mW}$	Lead Wire
VLM-650-03 CPA	650 nm	$\leq 2.5\text{mW}$	Connector
VLM-650-03 CPT	650 nm	$< 1\text{mW}$	Connector

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