

Economical Line Laser

VLM-650-28 LPT



FEATURES:

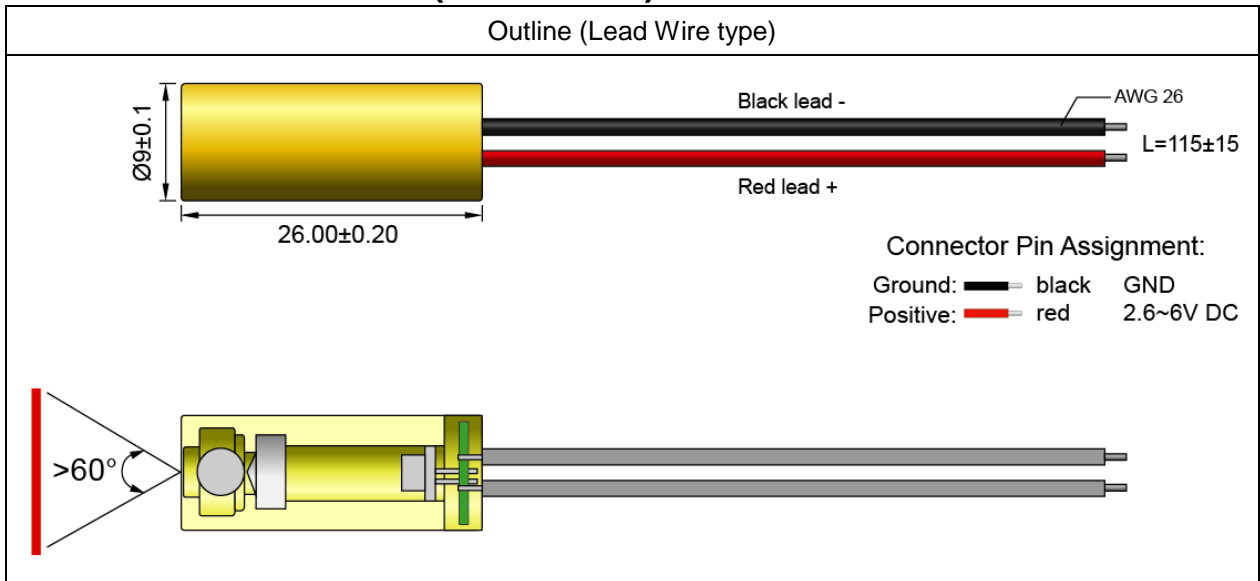
- Economical Red Line Laser.
- Line-width optimize at short distance(1m) for consumer grade laser line generator applications.
- This module has integrated wavy lens, collimating lens, laser diode, and APC driver circuit.
- APC driver circuit enables the Laser power output safe and constant.
- Includes patented solid brass structure for the best shock resistance and better heat transfer consideration.
- Aspherical Plastic Lens and Plastic Wavy Lens provides Line Laser.
- Dimensions : Ø9 x 26 mm (Ø0.354" x 1.024")
- Wavelength : 645~665 nm
- Laser power output : Class I
- Laser line accuracy: 80" (± 2mm @5m).
- Emitting Angle : > 60°
- 2.6~6 VDC operation.
- Connection type : Lead wire

APPLICATIONS:

- Economical Red Line Laser Module, Line-width optimize at short distance(1m) for consumer grade 3d-Scanner, barcode reader, leveling, alignment, adjusting, positioning, measuring and targeting device.
- Wood processing.
- Metal processing.
- Stone processing.
- Textile industry.
- Food industry.
- Automotive industry.
- Medical science.

VLM-650-28 LPT

OUTLINE DIMENSIONS (UNITS: mm)



SPECIFICATIONS

SPECIFICATIONS		VLM-650-28 LPT
1	Dimensions	$\varnothing 9 \times 26$ mm ($\varnothing 0.354" \times 1.024"$)
2	Operating voltage (Vop)	2.6~6 VDC
3	Operating current (Iop)	Less than 35mA
4	Optical power*	Less than 2mW
5	Laser class	Class I
6	Wavelength at peak emission (λ_p)	645~665nm
7	Collimating lens	Plastic lens
8	Line lens	Plastic lens
9	Beam shape	Line
10	Laser Line width	1.2mm@1m
11	Laser line accuracy	80" (± 2 mm @5M)
12	Emitting angle	More than 60°
13	Operating temp. range**	$+15^\circ\text{C} \sim +30^\circ\text{C}$
14	Storage temp. range	$-20^\circ\text{C} \sim +65^\circ\text{C}$
15	Housing material	Brass
16	Potential housing***	VDD(+)

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17	Electrostatic discharge (ESD)	30KV
18	Moisture sensitivity level (MSL)	Level 1 - acc to JEDEC J-STD-020E.
19	Wire type	1007-26 AWG
20	Cable length	115±15mm
21	Mean time to failure (MTTF) 25°C	10000hrs
22	Application	Economic 3D scanner
23	Suggestion work distance	0.3~1.8 meters / 1~6 feet

* Optical power is total power output measured at the aperture of the laser.

** Operation temperature means within this temperature range, the laser spot/line will not be affected to change the spot size/line width. It can still work over this range, but the laser spot size or laser line width will be larger.

*** 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.

ORDER CODE

Order Code	Wavelength	Optical power*	Laser Class	Connection Type
VLM-650-28 LPT	650 nm	Less than 2mW	Class I	Lead Wire

* Optical power is total power output measured at the aperture of the laser.

SAFETY LABEL

CLASS I LASER PRODUCT