

Straight Red Line Laser

VLM-635-55 Series



FEATURES:

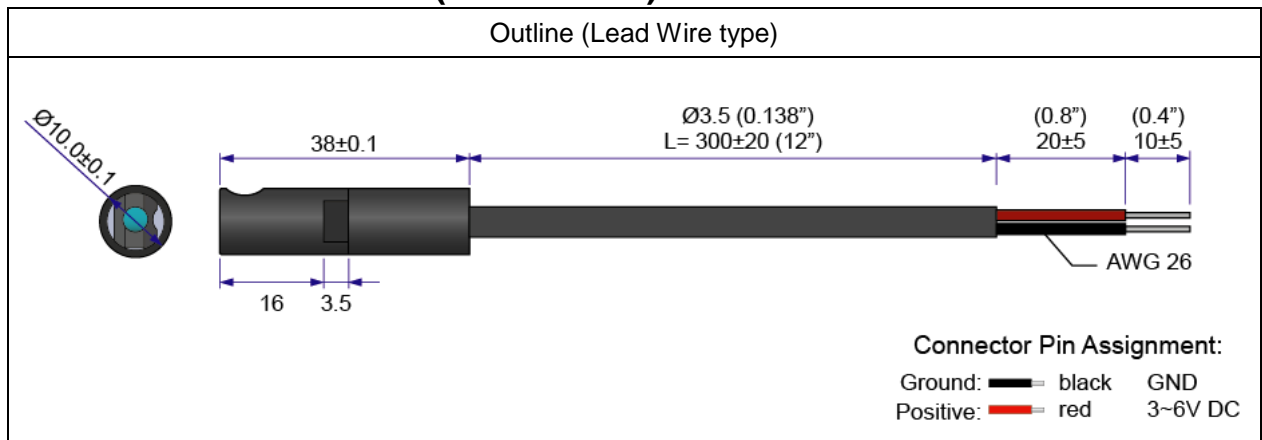
- Red Laser Diode for large temperature operation range.
- High quality straight red line laser, ideal for industrial application.
- Laser beam is focused at 10 meters to generate best thin laser line from 5 meters to 20 meters.
- Industrial use laser modules have 10,000 hours working life.
- This module has integrated optic, red laser diode, and APC driver circuit.
- APC driver circuit enables the Laser power output safe and constant.
- Dimensions : Ø10 x 38 mm (Ø0.393" x 1.496")
- Wavelength : 630~645 nm
- Laser power output : LPT - Class 2M Laser product.
LPO - Class 1M Laser product.
- Fan Angle : 60°
- 3~6 VDC operation.
- Connection type : Lead wire

APPLICATIONS:

- Straight Red Line from Red Laser Diode.
- Wood processing.
- Metal processing.
- Stone processing.
- Textile industry.
- Food industry.
- Automotive industry.
- Medical science.

VLM-635-55 Series

OUTLINE DIMENSIONS (UNITS: mm)



SPECIFICATIONS

SPECIFICATIONS		VLM-635-55	
		LPO	LPT
1	Dimensions	$\varnothing 10 \times 38$ mm ($\varnothing 0.393" \times 1.496"$)	
2	Weight	6g	
3	Operating voltage (Vop)	3~6 VDC	
4	Operating current (Iop)	Less than 80mA	Less than 100mA
5	Optical power*	4~5mW	9~10mW
6	Laser power output**	Less than 0.39mW	Less than 1mW
7	Laser class	Class 1M	Class 2M
8	Wavelength at peak emission (λ_p)	630~645nm	
9	Collimating lens	Glass lens	
10	Line lens	Glass lens	
11	Beam shape	Line	
12	Laser line width	3 ± 0.5 mm@5M, 6 ± 0.5 mm@10M	
13	Laser line accuracy	40" (± 1 mm@5M)	
14	Fan Angle	60°	
15	Operating temp. range***	-20°C ~+65°C	
16	Storage temp. range	-20°C ~+85°C	
17	Housing material	Aluminum	
18	Potential of housing	Insulated	
19	Electrostatic discharge (ESD)	30KV	
20	Moisture sensitivity level (MSL)	Level 1 - acc to JEDEC J-STD-020E.	

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21	Wire type	2464 2-WIRE CABLE 26 AWG
22	Cable length	330±30mm
23	Mean time to failure (MTTF) 25°C	10000hrs
24	Application	Precision industrial alignment
25	Suggestion work distance	1~20 meters / 3~60 feet

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

** According to FDA 1040.10 & IEC 60825-1 regulations, laser power output is measured by a 7mm aperture stop from a 10cm distance 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.

ORDER CODE

Order Code	Wavelength	Optical power*	Laser power output**	Laser Class	Connection Type
VLM-635-55 LPO	635 nm	4~5mW	Less than 0.39mW	Class 1M	Lead Wire
VLM-635-55 LPT	635 nm	9~10mW	Less than 0.9mW	Class 2M	Lead Wire

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

** According to FDA 1040.10 & IEC 60825-1 regulations, laser power output is measured by 7mm aperture stop from a 10 cm distance of the laser.

SAFETY LABEL

CLASS I LASER PRODUCT

