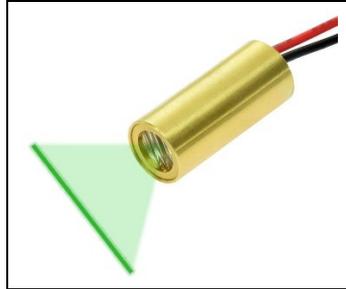


Economical Green Line Laser

VLM-520-28 series



FEATURES:

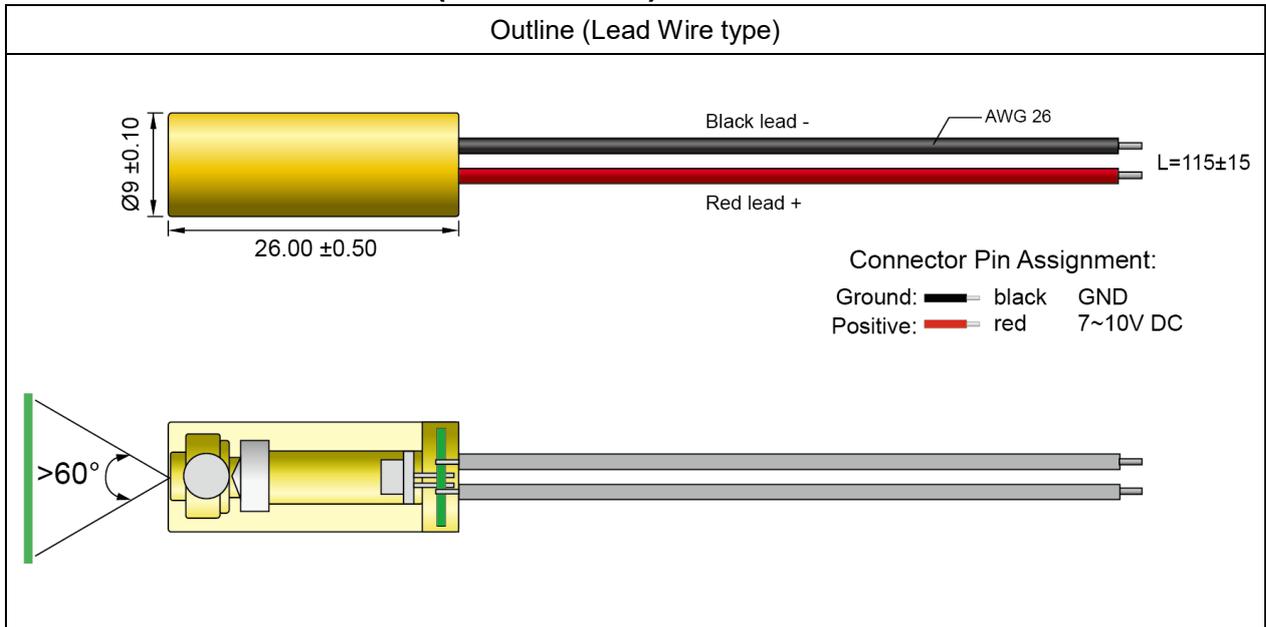
- Direct Green Laser Diode for large temperature operation range.
- Although it is an economical solution for laser line generator applications, this module adopts industrial-grade high-performance design.
- Laser beam is focused at 1 meter to generate thin laser line from 0.5 meter to 1.5 meters.
- Mean time to failure (MTTF) of the laser diode at 25°C: 10,000 hours.
- This module has integrated wave 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 Wave Lens provides tight Line Laser.
- Dimensions : Ø9 x 26 mm (Ø0.354" x 1.023")
- Wavelength : 510~530 nm
- Laser power output : Class I
- Emitting Angle : > 60°
- 7~10 VDC operation.
- Connection type : Lead wire

APPLICATIONS:

- Economical Green 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-520-28 series

OUTLINE DIMENSIONS (UNITS: mm)



SPECIFICATIONS

SPECIFICATIONS		VLM-520-28	
		LPO*	LPT*
1	Dimensions	Ø9 x 26 mm (Ø0.354" x 1.024")	
2	Operating voltage (Vop)	7~10 VDC	
3	Operating current (Iop)	Less than 100mA	
4	Optical power**	Less than 4.5mW	
5	Laser class	Class I	
6	Wavelength at peak emission (λp)	510~530nm	
7	Line lens	Plastic lens	
8	Collimating lens	Aspherical plastic lens	
9	Beam shape	Line	
10	Laser line width	1.2mm@1m	
11	Laser line accuracy	80" (+/- 2mm @5M)	
12	Emitting angle	More than 60°	
13	Operating temp. range***	+15°C ~+30°C	
14	Storage temp. range	-20°C ~+65°C	
15	Housing material	Brass	
16	Potential of 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	1007-26AWG
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

* Due to latest IEC 60825-1 regulations, the VLM-520-28 LPT is classified as a Class 1 product. To make it easier for customers to quickly identify the laser class by the product name, we have introduced a series - VLM-520-28 LPO. Both products are identical in specifications, the only difference is the product name.

** 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-520-28 LPO	520 nm	Less than 4.5mW	Class I	Lead Wire
VLM-520-28 LPT	520 nm	Less than 4.5mW	Class I	Lead Wire

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

SAFETY LABEL

CLASS I LASER PRODUCT