

## Straight Green Line Laser

### VLM-520-27 Series



#### FEATURES:

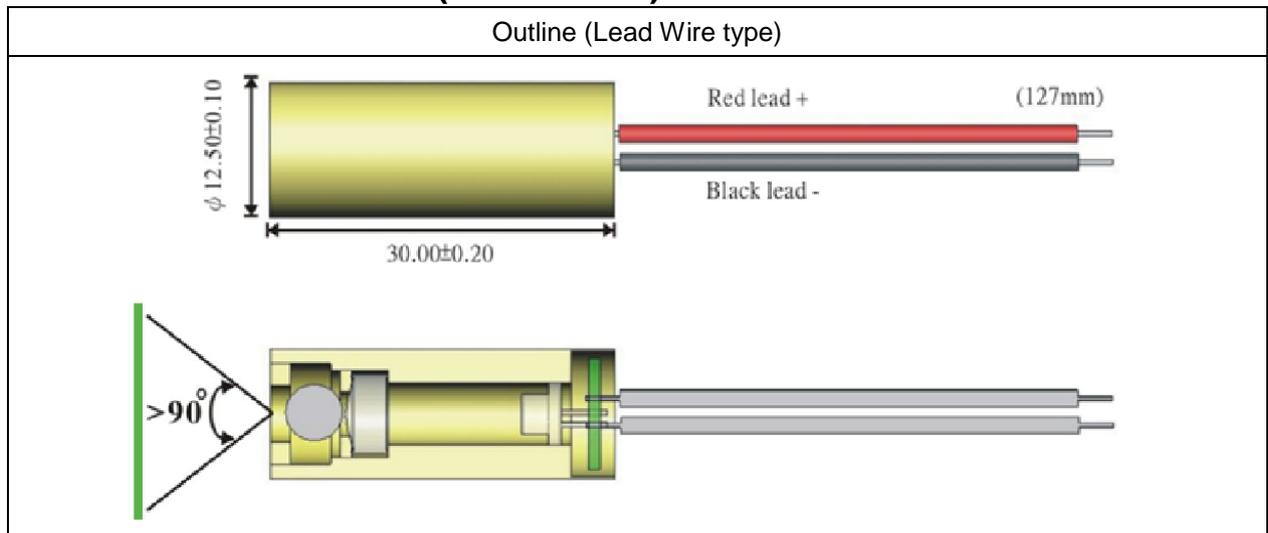
- ∞ Direct Green Laser Diode for large temperature operation range.
- ∞ The best line-accuracy and the widest emitting angle line laser module for use with high-precision devices.
- ∞ Laser beam is focused at 10 meters to generate best thin laser line from 5 meters to 20 meters.
- ∞ This module has integrated quartz cylindrical lens, collimating lens, 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.
- ∞ Aspherical Plastic Lens and Quartz Cylindrical Lens provides tight Line Laser.
- ∞ Dimensions : Ø12.5 x 30 mm (Ø0.492" x 1.181")
- ∞ Wavelength : 505~530 nm
- ∞ Optical power : LPT - less than 2mW, Laser class, Class I  
LPA - less than 20mW, Laser class, Class II
- ∞ Emitting Angle : >90°
- ∞ 7~10 VDC operation.
- ∞ Connection type : Lead wire

#### APPLICATIONS:

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

## VLM-520-27 Series

### OUTLINE DIMENSIONS (UNITS: mm)



### SPECIFICATIONS

SPECIFICATIONS		VLM-520-27	
		LPT	LPA
1	Dimensions	$\phi 12.5 \times 30$ mm ( $\phi 0.492" \times 1.181"$ )	
2	Operating voltage (Vop)	7~10 VDC	
3	Operating current (Iop)	< 80mA	< 100mA
4	Optical power	< 2mW	< 20mW
5	Laser class	Class I	Class II
6	Wavelength at peak emission ( $\lambda_p$ )	505~530nm	
7	Cylindrical lens	Quartz cylindrical lens	
8	Collimating lens	Aspherical plastic lens	
9	Laser Line width@10M	< 3.5mm	
10	Laser line accuracy	40" (+/- 1mm @5M)	
11	Emitting angle	> 90°	
12	Operating temp. range	-20°C ~+65°C	
13	Storage temp. range	-20°C ~+65°C	
14	Housing material	Brass	
15	Wire type	1007-26 AWG	
16	Cable length	127mm	
17	Mean time to failure (MTTF) 25°C	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-520-27 Series

### ORDER CODE

Order Code	Wavelength	Laser Class	Connection Type
VLM-520-27 LPT	520 nm	Class I	Lead Wire
VLM-520-27 LPA	520 nm	Class II	Lead Wire

### SAFETY LABEL

**CLASS I LASER PRODUCT**  
This product complies with 21CFR  
Chapter 1. subchapter J.

