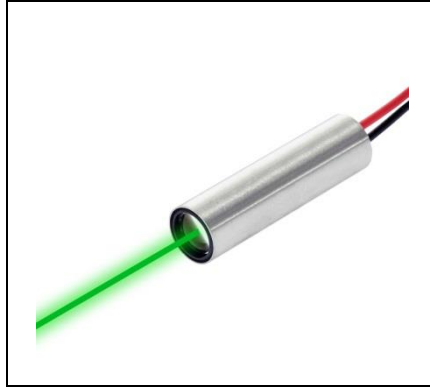


## Direct Green Dot Laser

### VLM-520-52 Series



#### FEATURES:

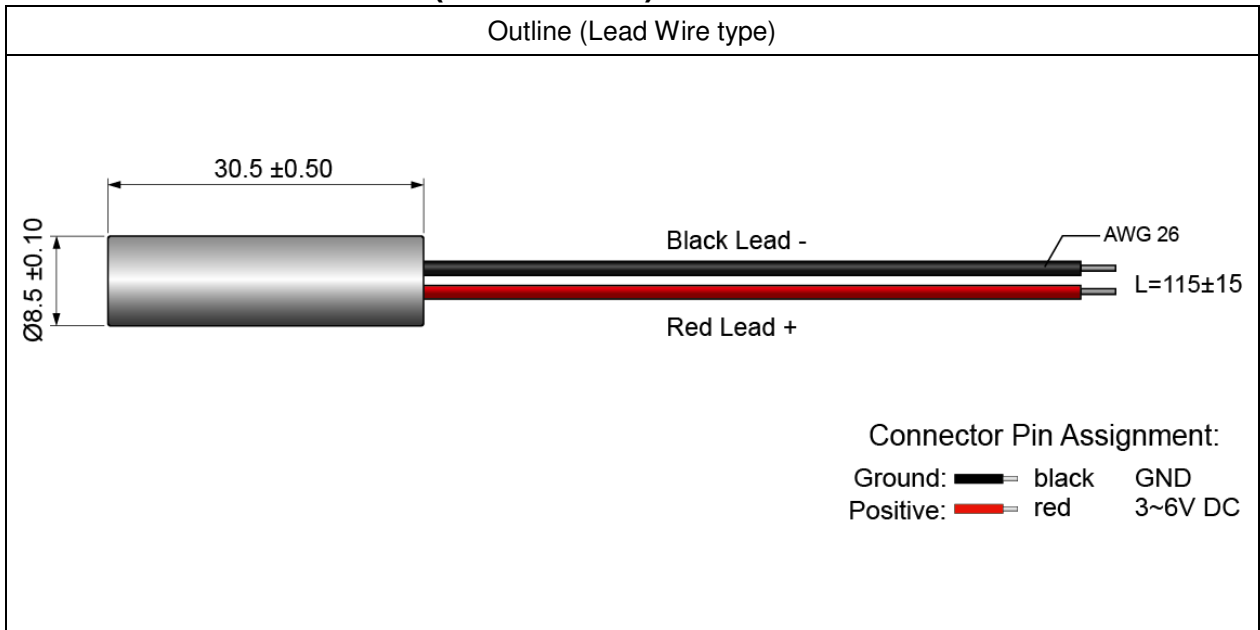
- Direct Green Laser Diode module to provide large temperature operation range.
- High quality round green Laser spot with low beam divergence angle, ideal for industrial application.
- Industrial use laser modules have 10,000 hours working life.
- This module has integrated optic, direct green laser diode, and APC driver circuit.
- APC driver circuit enables the Laser output power safe and constant.
- Dimensions : Ø8.5 x 30.5 mm (Ø0.334" x 1.2")
- Wavelength : 505~530 nm
- Laser power output : LPB - Class IIIb - less than 15mW.  
LPA - Class IIIa - less than 4mW.  
LPT - Class II - less than 1mW.
- Beam Divergence (Half Angle) : <0.4 mRad
- 3~6 VDC operation.
- Connection type : Lead wire

#### APPLICATIONS:

- Industrial Green Dot Laser Module - for positioning, measuring, pointing and laser sighting device.
- Wood processing.
- Metal processing.
- Stone processing.
- Textile industry.
- Food industry.
- Automotive industry.
- Medical science.

## VLM-520-52 Series

### OUTLINE DIMENSIONS (UNITS: mm)



### SPECIFICATIONS

SPECIFICATIONS		VLM-520-52		
		LPT	LPA	LPB
1	Dimensions	$\varnothing 8.5 \times 30.5$ mm ( $\varnothing 0.334$ " x 1.2")		
2	Weight	4.3g		
3	Operating voltage (Vop)	3~6 VDC		
4	Operating current (Iop)	Less than 150mA		Less than 280mA
5	Laser power output	Less than 1mW	Less than 4mW	Less than 15mW
6	Laser class	Class II	Class IIIa	Class IIIb
7	Wavelength at peak emission ( $\lambda_p$ )	505~530nm		
8	Collimating lens	Aspherical Glass lens		
9	Output aperture	5mm		
10	Beam shape	Ellipse		
11	Spot size at 10M	$5 \pm 1$ mm		
12	Divergence (Half Angle)	Less than 0.4 mRad		
13	Beam alignment	Less than 3°		
14	Operating temp. range*	$-20^{\circ}\text{C} \sim +60^{\circ}\text{C}$		
15	Storage temp. range	$-20^{\circ}\text{C} \sim +85^{\circ}\text{C}$		
16	Housing material	Stainless steel		
17	Potential of housing	Insulated		

## VLM-520-52 Series

18	Electrostatic discharge (ESD)	30KV
19	Moisture sensitivity level (MSL)	Level 1 - acc to JEDEC J-STD-020E.
20	Wire type	1007-26AWG
21	Cable length	115±15mm
22	Mean time to failure (MTTF) 25°C	10000hrs
23	Application	Industrial application
24	Suggestion work distance	1~30 meters / 3~100 feet

\* Operation temperature: it 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	Laser power output	Laser class	Connection Type
VLM-520-52 LPT	520 nm	Less than 1mW	Class II	Lead Wire
VLM-520-52 LPA	520 nm	Less than 4mW	Class IIIa	Lead Wire
VLM-520-52 LPB	520 nm	Less than 15mW	Class IIIb	Lead Wire

### SAFETY LABEL

