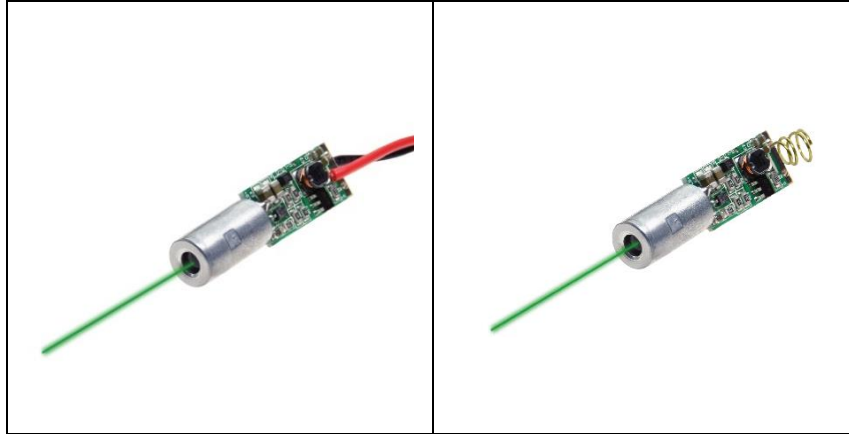


## Economical Green Dot Laser

### VLM-520-04 Series



#### FEATURES:

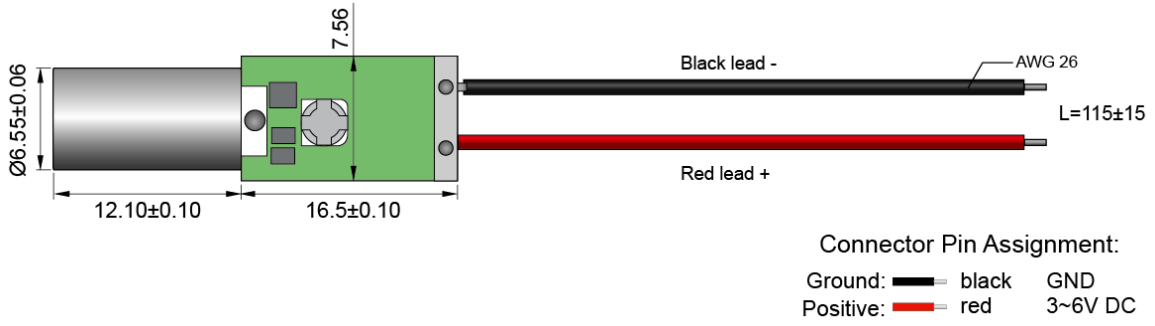
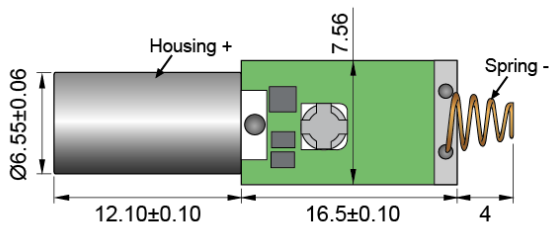
- Direct Green Laser Diode module to provide large temperature operation range.
- Ideal Laser module if cost is a very important consideration.
- This module has integrated optic, laser diode, and APC driver circuit.
- APC Driver Circuit enables the Laser output power safe and constant.
- Aspherical plastic lens provides tight Dot Laser.
- Dimensions : Ø6.55 x 28.6 mm (Ø0.258" x 1.125")
- Wavelength : 505~530 nm
- Laser power output : LPT - Class II – less than 1mW.
- Beam Divergence (Half Angle) : 0.6 mRad
- 3~6 VDC operation.
- Connection type : Lead wire / Spring

#### APPLICATIONS:

- Economical Green Dot Laser Module - Low cost solution for consumer grade positioning, measuring, pointing and laser sighting device.
- Wood processing.
- Metal processing.
- Stone processing.
- Textile industry.
- Food industry.
- Automotive industry.
- Medical science.

## VLM-520-04 Series

### OUTLINE DIMENSIONS (UNITS: mm)

Outline (Lead Wire type)	
 <p>Connector Pin Assignment:</p> <p>Ground: <span style="color: black;">■</span> black GND</p> <p>Positive: <span style="color: red;">■</span> red 3~6V DC</p>	
Outline (Spring type)	
	

### SPECIFICATIONS

SPECIFICATIONS		VLM-520-04	
		LPT	SPT
1	Dimensions	Ø6.55 x 28.6 mm (Ø0.258" x 1.125")	
2	Weight	2.4g	
3	Operating voltage (Vop)	3~6 VDC	
4	Operating current (Iop)	Less than 150mA	
5	Laser power output (Po)	Less than 1mW	
6	Laser class	Class II	
7	Wavelength at peak emission (λp)	505~530nm	
8	Collimating lens	Aspherical plastic lens	
9	Output aperture	3mm	
10	Beam shape	Ellipse	
11	Spot size at 5M	Less than 4mm	
12	Divergence (Half Angle)	0.6 mRad	
13	Beam alignment	Less than 3°	
14	Operating temp. range*	+10°C ~+40°C	

## VLM-520-04 Series

15	Storage temp. range	-20°C ~+65°C	
16	Housing material	Zinc alloy	
17	Potential of housing**	VDD(+)	
18	Electrostatic discharge (ESD)	20KV	
19	Moisture sensitivity level (MSL)	Level 1 - acc to JEDEC J-STD-020E.	
20	Connection type	1007-26AWG	Spring
21	Cable length	115±15mm	4±1mm
22	Mean time to failure (MTTF) 25°C	5000hrs	
23	Application	Economic type	
24	Suggestion work distance	1~10 meters / 3~40 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.

\*\* 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	Laser Power Output	Laser Class	Connection Type
VLM-520-04 LPT	520 nm	Less than 1mW	Class II	Lead Wire
VLM-520-04 SPT	520 nm	Less than 1mW	Class II	Spring

## SAFETY LABEL

