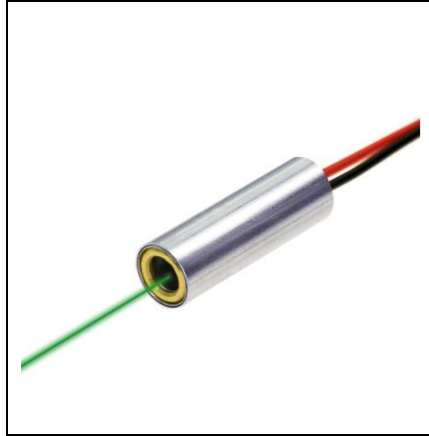


Direct Green Laser Diode Module

VLM-520-73 Series



FEATURES:

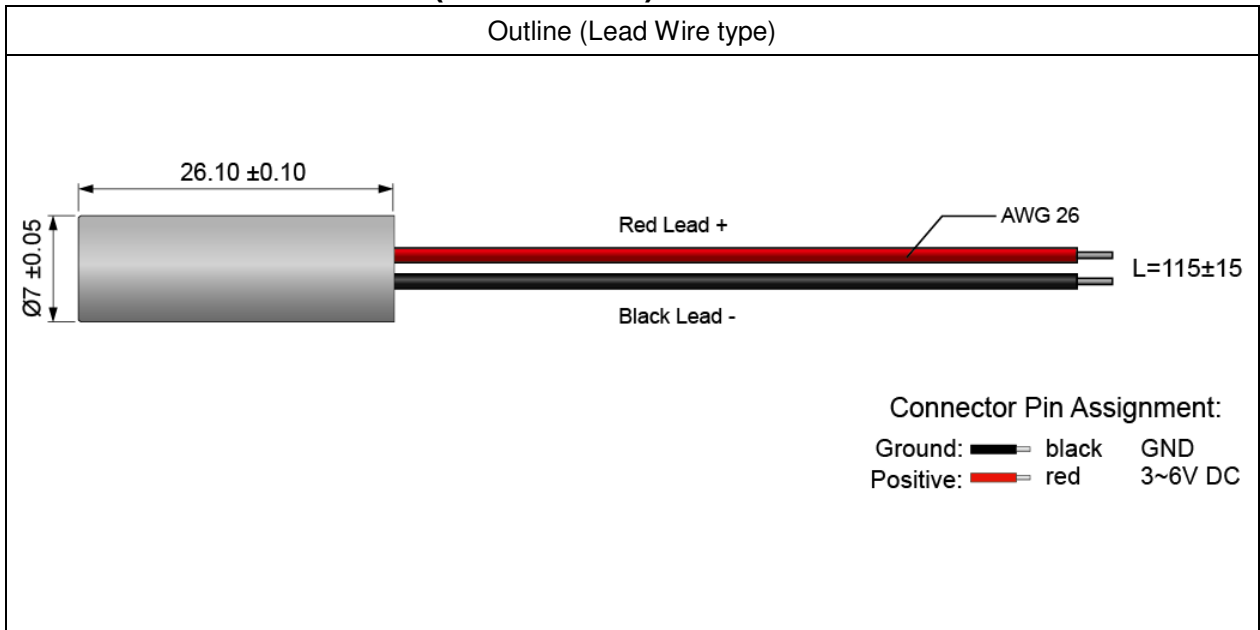
- Direct Green Laser Diode for large temperature operation range.
- This module has integrated optic, laser diode, and APC driver circuit.
- APC Driver Circuit enables the Laser output power safe and constant.
- Aspherical Glass lens provides tight Dot Laser in large temperature range.
- Dimensions : $\text{Ø}7 \times 26.1 \text{ mm}$ ($\text{Ø}0.275" \times 1.03"$)
- Wavelength : 505~530 nm
- Laser power output : LPA - Class IIIa - less than 4mW.
LPT - Class II - less than 1mW.
- Beam Divergence (Half Angle) : $<0.6 \text{ mRad}$
- 3~6 VDC operation.
- Connection type : Lead wire

APPLICATIONS:

- Direct Green Dot Laser Module - for positioning, measuring, pointing and laser sighting device.
- Automotive industry.
- Medical science.
- Measurement.
- Sensor.

VLM-520-73 Series

OUTLINE DIMENSIONS (UNITS: mm)



SPECIFICATIONS

SPECIFICATIONS		VLM-520-73	
		LPT	LPA
1	Dimensions	Ø7 x 26.1 mm (Ø0.275" x 1.03")	
2	Weight	3.8g	
3	Operating voltage (Vop)	3~6 VDC	
4	Operating current (Iop)	Less than 150mA	Less than 200mA
5	Continuous wave output power (Po)	Less than 1mW	Less than 4mW
6	Laser class	Class II	Class IIIa
7	Wavelength at peak emission (λp)	505~530nm	
8	Collimating lens	Aspherical Glass lens	
9	Output aperture	4.3mm	
10	Beam shape	Ellipse	
11	Spot size at 10M	Less than 7mm	
12	Divergence (Half Angle)	Less than 0.6 mRad	
13	Beam alignment	Less than 3°	
14	Operating temp. range*	-20°C ~+60°C	
15	Storage temp. range	-40°C ~+85°C	
16	Housing material	Stainless steel	
17	Potential of housing**	VDD(+)	
18	Electrostatic discharge (ESD)	30KV	

VLM-520-73 Series

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	Economic 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.

** 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-520-73 LPT	520 nm	Less than 1mW	Class II	Lead Wire
VLM-520-73 LPA	520 nm	Less than 4mW	Class IIIa	Lead Wire

SAFETY LABEL

