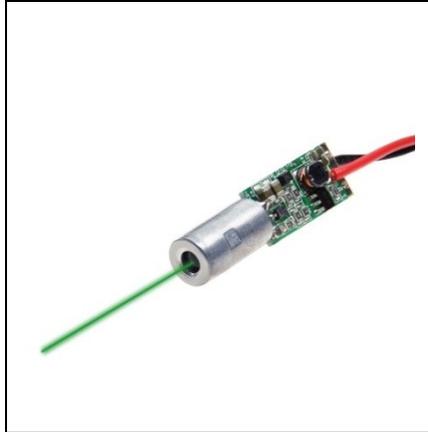


Economical Green Dot Laser

VLM-520-04 LPT



FEATURES:

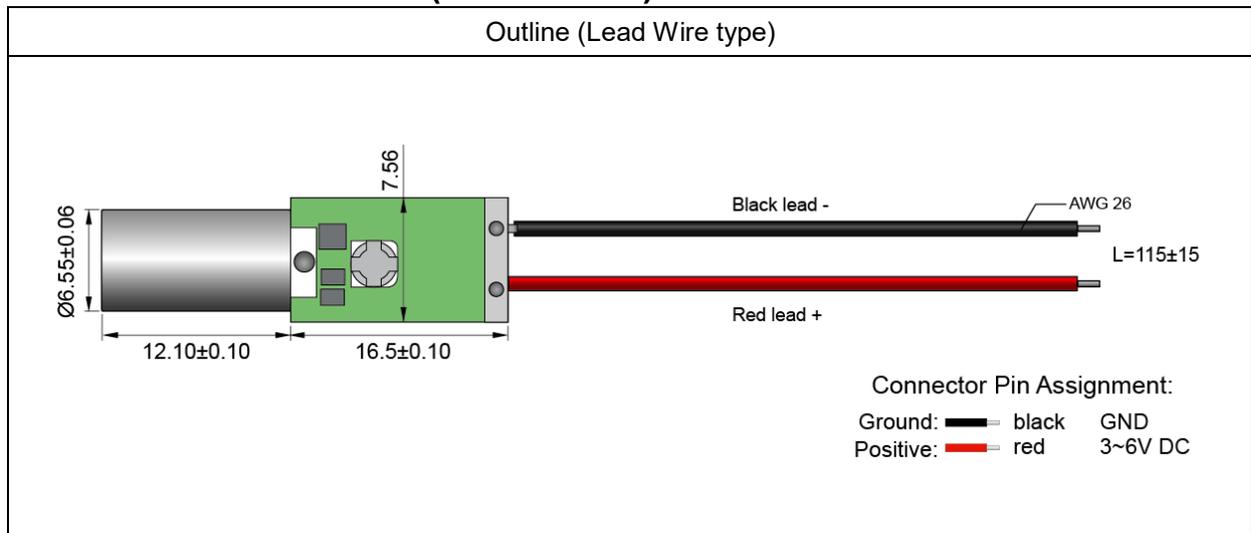
- Direct Green Laser Diode module to provide large temperature operation range.
- Ideal Laser module if cost is a very important consideration.
- This module has integrated optic, laser diode, and APC driver circuit.
- APC Driver Circuit enables the Laser output power safe and constant.
- Aspherical 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 : Class 2 – less than 1mW.
- Beam Divergence (Half Angle) : 0.6 mRad
- 3~6 VDC operation.
- Connection type : Lead wire

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 LPT

OUTLINE DIMENSIONS (UNITS: mm)



SPECIFICATIONS

| SPECIFICATIONS | | VLM-520-04 LPT |
|----------------|----------------------------------|------------------------------------|
| 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 2 |
| 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 |
| 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. |

VLM-520-04 LPT

| | | |
|----|----------------------------------|-------------------------|
| 20 | Connection type | 1007-26AWG |
| 21 | Cable length | 115±15mm |
| 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 2 | Lead Wire |

SAFETY LABEL

