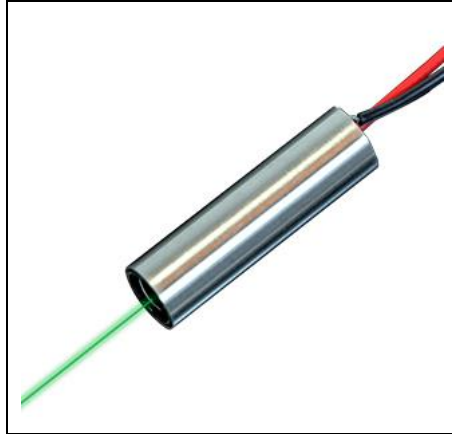


## Direct Green Dot Laser

### 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")

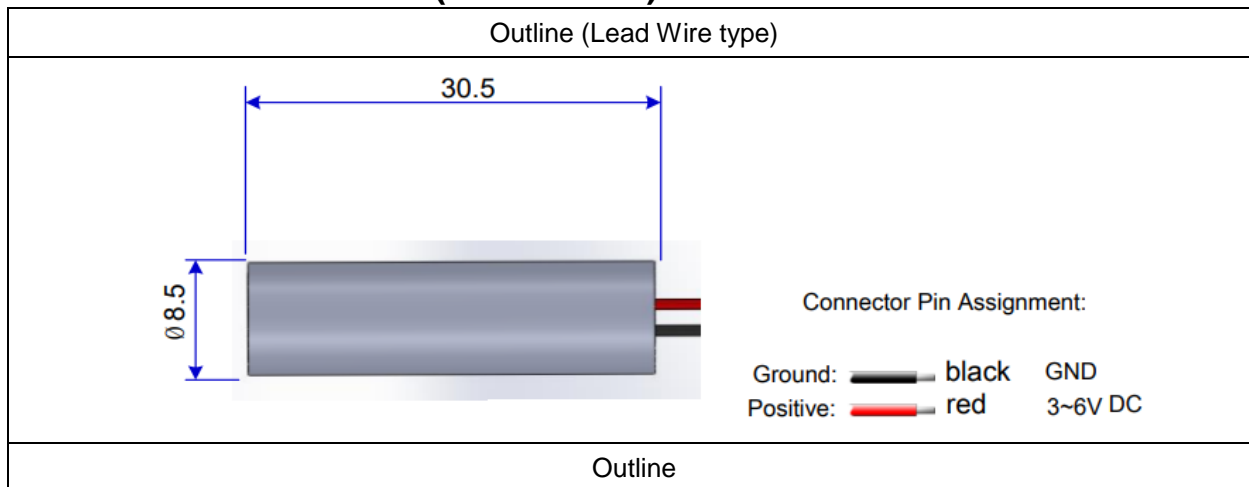
- Wavelength : 510~530 nm
- Output power : LPB - Class IIIb - less than 15mW.  
LPA - Class IIIa - less than 4mW.  
LPT - Class II - less than 1mW.
- Beam Divergence (Half Angle) : <0.4 mRad
- 3~6 VDC operation.
- Connection type : Lead wire

#### 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                        | Ø8.5 x 30.5 mm (Ø0.334" x 1.2 ") |         |         |
| 2              | Weight                            | 4.3g                             |         |         |
| 3              | Operating voltage (Vop)           | 3~6 VDC                          |         |         |
| 4              | Operating current (Iop)           | < 100mA                          | < 100mA | < 280mA |
| 5              | Continuous wave output power (Po) | < 1mW                            | < 4mW   | < 15mW  |
| 6              | Wavelength at peak emission (λp)  | 510~530nm                        |         |         |
| 7              | Collimating lens                  | Aspherical Glass lens            |         |         |
| 8              | Output aperture                   | 5mm                              |         |         |
| 9              | Beam shape                        | Dot                              |         |         |
| 10             | Spot size at 10M                  | 5±1 mm                           |         |         |
| 11             | Divergence (Half Angle)           | < 0.4 mRad                       |         |         |
| 12             | Operating temp. range             | -20°C ~+65°C                     |         |         |
| 13             | Storage temp. range               | -20°C ~+85°C                     |         |         |
| 14             | Housing material                  | Stainless steel                  |         |         |
| 15             | Housing color                     | Sliver                           |         |         |
| 16             | Potential of housing              | Insulated                        |         |         |
| 17             | Wire type                         | 1007-26AWG                       |         |         |
| 18             | Cable length                      | 127mm                            |         |         |
| 19             | Mean time to failure (MTTF) 25°C  | 10000hrs                         |         |         |

**Note :** Surge protected power supply to the laser module is strongly recommended.

## VLM-520-52-Series

### ORDER CODE

| Order Code     | Wavelength | Output Power | Connection Type |
|----------------|------------|--------------|-----------------|
| VLM-520-52 LPB | 520 nm     | <15mW        | Lead Wire       |
| VLM-520-52 LPA | 520 nm     | <4mW         | Lead Wire       |
| VLM-520-52 LPT | 520 nm     | <1mW         | Lead Wire       |

### SAFETY LABEL

