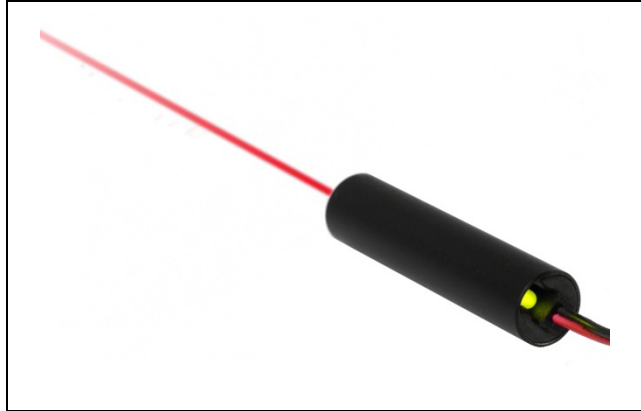


## Adaptor Connected Laser

### VLM-635/650-06 Series



#### FEATURES:

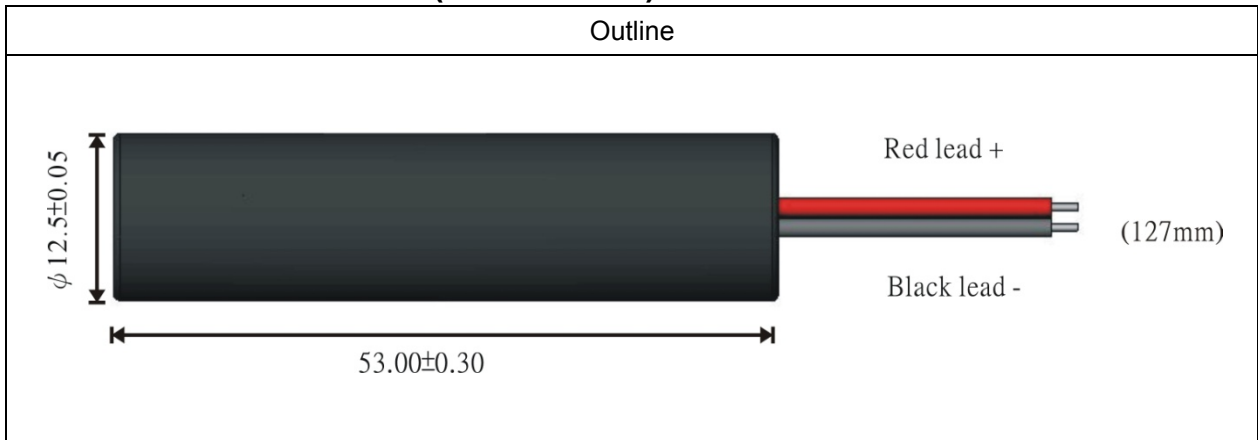
- Red Dot Laser.
- Easy to connect with 3V,5V adaptor, with LED indicator .
- This module has integrated optic, laser diode, and APC driver circuit.
- APC Driver Circuit enables the Laser output power safe and constant.
- Aluminum housing for the best heat transfer consideration.
- Utilize Glass Lens, spot-size maintain tight-dot while temperature fluctuate between -20°C ~50°C.
- Dimensions:  $\Phi 12.5 \times 53$  mm ( $\Phi 0.492" \times 2.087"$ )
- Wavelength : 635 / 650 nm
- Output power : Class II – less than 1mW / Class IIIa – less than 5mW.
- Beam Divergence (Half Angle) : 0.45 mRad
- 2.7~6 VDC operation.
- Connection type: Lead wire.

#### APPLICATIONS:

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

## VLM-635/650-06 Series

### OUTLINE DIMENSIONS (UNITS: mm)



### SPECIFICATIONS

| SPECIFICATIONS |                                   | 635-06                           | 650-06    |
|----------------|-----------------------------------|----------------------------------|-----------|
| 1              | Dimensions                        | Φ12.5 x 53 mm (Φ0.492" x 2.087") |           |
| 2              | Operating voltage (Vop)           | 2.7~6 VDC                        |           |
| 3              | Operating current (Iop)           | < 50mA                           | < 35mA    |
| 4              | Continuous wave output power (Po) | LPT<1mW / LPA ≤ 3mW              |           |
| 5              | Wavelength at peak emission (λp)  | 630~645nm                        | 645~665nm |
| 6              | Collimating lens                  | Glass lens(ø7)                   |           |
| 7              | Spot size at 5M                   | 5±0.5 mm                         |           |
| 8              | Divergence (Half Angle)           | 0.45 mRad                        |           |
| 9              | Operating temp. range             | -20°C ~+50°C                     |           |
| 10             | Storage temp. range               | -40°C ~+70°C                     |           |
| 11             | Housing                           | Aluminum                         |           |
| 12             | Mean time to failure (MTTF) 25°C  | 5000hrs                          | 10000hrs  |

Note : 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.

## VLM-635/650-06 Series

### ORDER CODE

| Order Code     | Wavelength | Output Power      | Connection Type |
|----------------|------------|-------------------|-----------------|
| VLM-635-06 LPA | 635 nm     | $\leq 3\text{mW}$ | Lead Wire       |
| VLM-635-06 LPT | 635 nm     | $< 1\text{mW}$    | Lead Wire       |
| VLM-650-06 LPA | 650 nm     | $\leq 3\text{mW}$ | Lead Wire       |
| VLM-650-06 LPT | 650 nm     | $< 1\text{mW}$    | Lead Wire       |

### SAFETY LABEL

