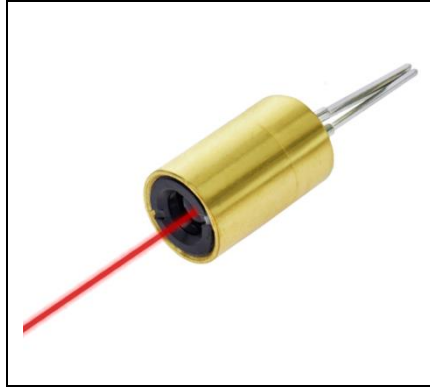


Industrial Use Laser

VLM-635-00



FEATURES:

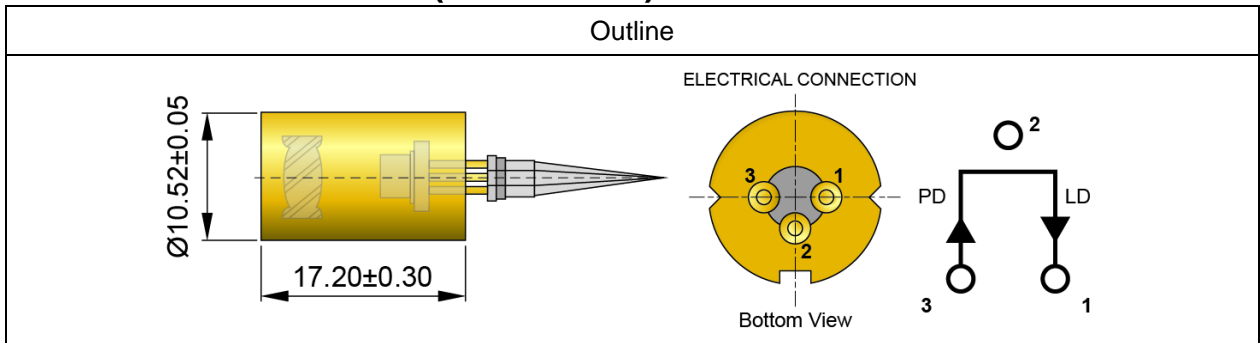
- Industrial Red Dot Laser.
- Adjustable focus Laser module without Driver Circuit. Users can adapt their own APC driver circuit for professional applications.
- This module has integrated optic, Laser diode.
- Includes patented solid brass structure for the best shock resistance and better heat transfer consideration.
- Aspherical plastic lens provides Dot Laser.
- Dimensions : Ø10.52 x 17.2 mm (Ø 0.414" x 0.677").
- Wavelength : 635nm
- Beam Divergence (Half Angle) : 0.5 mRad
- Maximum Operating current : 45mA
- Can be modulated up to 500 KHz.

APPLICATIONS:

- Industrial 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-635-00

OUTLINE DIMENSIONS (UNITS: mm)



SPECIFICATIONS

| SPECIFICATIONS | | VLM-635-00 | | |
|----------------|----------------------------------|-------------------------------------|--------|-------|
| 1 | Dimensions | Ø10.52 x 17.2 mm (Ø0.414" x 0.677") | | |
| 2 | Laser diode type | N-type | | |
| 3 | Parameter | MIN. | TYP. | MAX. |
| 4 | Threshold current | | 24mA | 35mA |
| 5 | Operating current (Iop) | | 33mA | 45mA |
| 6 | Operating voltage (Vop) | | 2.2V | 2.7V |
| 7 | Monitor current | 0.05mA | 0.18mA | 0.5mA |
| 8 | Wavelength (λp) | 630nm | 635nm | 645nm |
| 9 | Optical power output | Less than 2.5mW | | |
| 10 | Collimating lens | Aspherical plastic lens | | |
| 11 | Output aperture | 5mm | | |
| 12 | Beam shape | Ellipse | | |
| 13 | Divergence (Half Angle) | 0.5 mRad | | |
| 14 | Operating temp. range* | +10°C ~+40°C | | |
| 15 | Storage temp. range | -20°C ~+65°C | | |
| 16 | Housing material | Brass | | |
| 17 | Potential of housing** | VDD(+) | | |
| 18 | Wire type | 3*PIN from LD | | |
| 19 | Mean time to failure (MTTF) 25°C | 10000hrs | | |
| 20 | Application | Lab, without laser driver | | |

* 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.

VLM-635-00

ORDER CODE

| Order Code | Wavelength | Optical Power | Wire Type |
|------------|------------|-----------------|---------------|
| VLM-635-00 | 635 nm | Less than 2.5mW | 3*PIN from LD |