



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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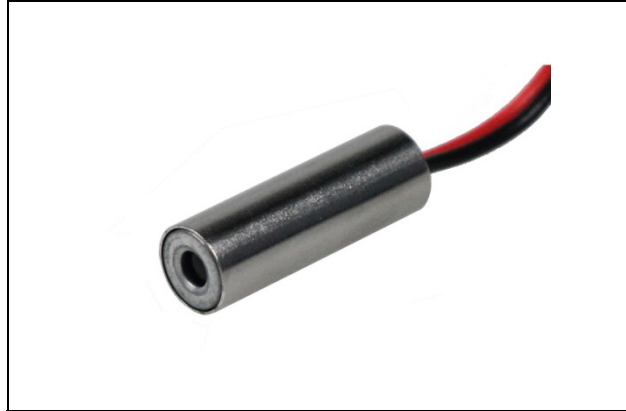
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IR Economical Laser

VLM-780/850-03 Series



FEATURES:

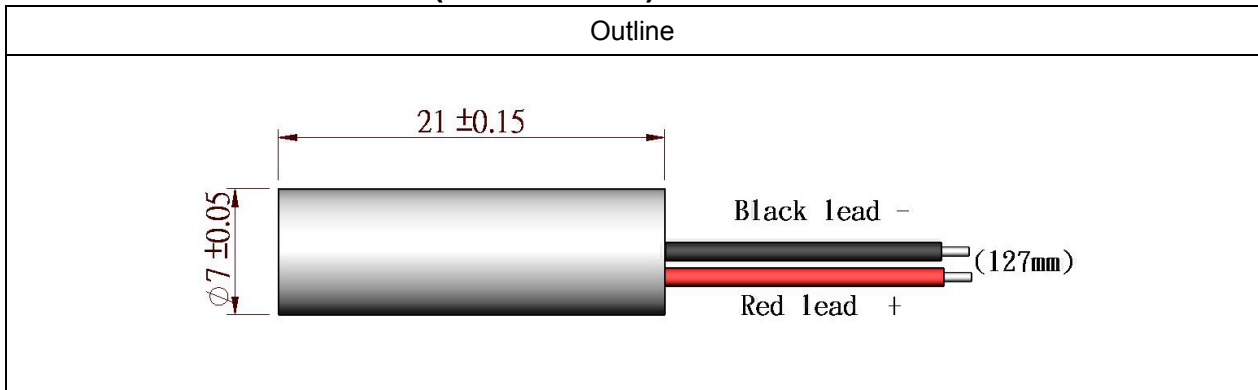
- Economical Infrared Dot Laser.
- Economical solution for invisible IR Laser application.
- This module has integrated optic, laser diode, and APC driver circuit.
- APC Driver Circuit enables the Laser output power safe and constant.
- Aspherical plastic lens provides Dot Laser.
- Dimensions: $\Phi 7 \times 21$ mm ($\Phi 0.276" \times 0.827"$)
- Wavelength : 780 / 850 nm
- Output power: LPT $<$ 1mW / LPA \leq 3mW.
- Beam Divergence (Half Angle) : 0.6 mRad
- 2.6~5 VDC operation.
- Connection type: Lead wire.

APPLICATIONS:

- Invisible IR 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-780/850-03 Series

OUTLINE DIMENSIONS (UNITS: mm)



SPECIFICATIONS

| SPECIFICATIONS | | 780-03 | 850-03 |
|----------------|-----------------------------------|----------------------------------|-----------|
| 1 | Dimensions | Φ7 x 21 mm (Φ0.276" x 0.827") | |
| 2 | Operating voltage (Vop) | 2.6~5 VDC | |
| 3 | Operating current (Iop) | < 40mA | < 30mA |
| 4 | Continuous wave output power (Po) | LPT<1mW / LPA ≤ 3mW | |
| 5 | Wavelength at peak emission (λp) | 770~795nm | 840~865nm |
| 6 | Collimating lens | Aspherical plastic lens(ø5) | |
| 7 | Spot size at 5M | 6±1 mm | |
| 8 | Divergence (Half Angle) | 0.6 mRad | |
| 9 | Operating temp. range | +15°C ~ +30°C (Room Temperature) | |
| 10 | Storage temp. range | -20°C ~+65°C | |
| 11 | Housing | Steel | |
| 12 | Mean time to failure (MTTF) 25°C | 5000hrs | |

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-780/850-03 Series

ORDER CODE

| Order Code | Wavelength | Output Power | Connection Type |
|----------------|------------|-------------------|-----------------|
| VLM-780-03 LPA | 780 nm | $\leq 3\text{mW}$ | Lead Wire |
| VLM-780-03 LPT | 780 nm | $< 1\text{mW}$ | Lead Wire |
| VLM-850-03 LPA | 850 nm | $\leq 3\text{mW}$ | Lead Wire |
| VLM-850-03 LPT | 850 nm | $< 1\text{mW}$ | Lead Wire |

SAFETY LABEL

