



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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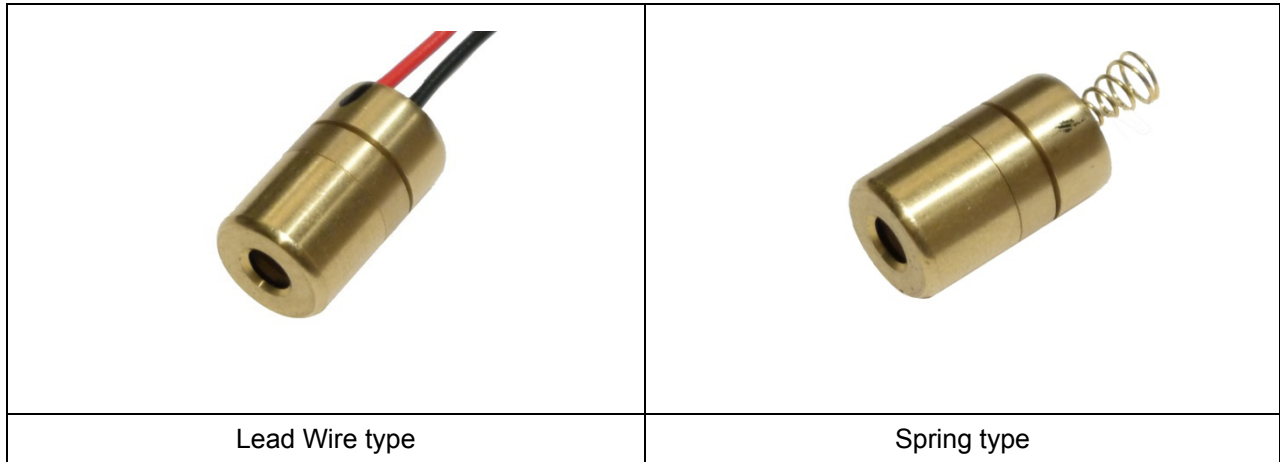
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IR Industrial use Laser

VLM-780-01 Series



FEATURES:

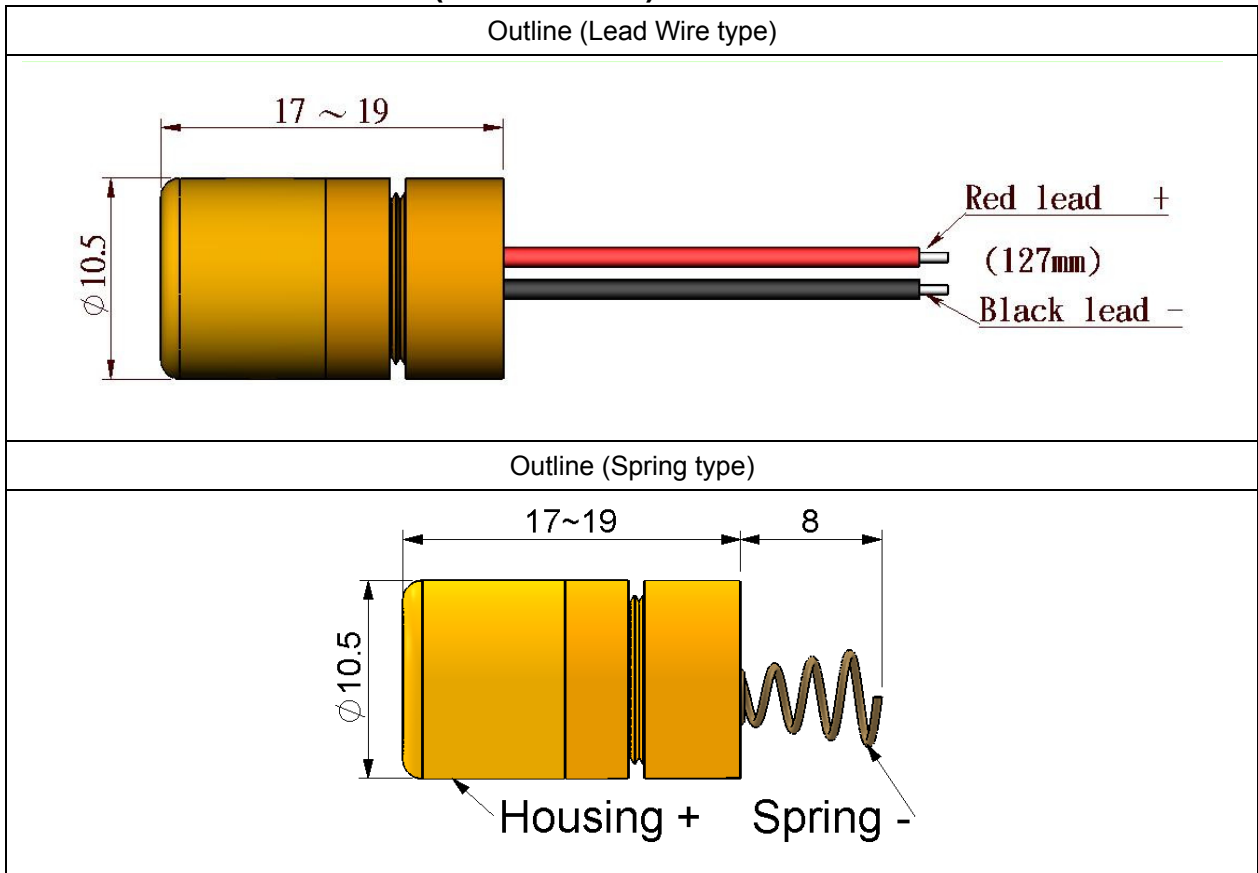
- Industrial Infrared Dot Laser.
- Basic model, compact size with PCB inside ,ideal for invisible IR industrial Laser application.
- This module has integrated optic, laser diode, and APC driver circuit.
- APC Driver Circuit enables the Laser output power safe and constant.
- Includes patented solid brass structure for the best shock resistance and better heat transfer consideration.
- Aspherical plastic lens provides Dot spot.
- Dimensions: $\Phi 10.5 \times 19 \text{ mm} (\Phi 0.413" \times 0.748")$
- Wavelength : 780 nm
- Output power: LPT $<1\text{mW}$ / LPA $\leq 3\text{mW}$.
- Beam Divergence (Half Angle) : 0.5 mRad
- 2.6~5 VDC operation.
- Connection type: Lead wire / Spring.

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-780-01 Series

OUTLINE DIMENSIONS (UNITS: mm)



SPECIFICATIONS

SPECIFICATIONS		780-01
1	Dimensions	$\Phi 10.5 \times 19 \text{ mm}$ ($\Phi 0.413" \times 0.748"$)
2	Operating voltage (Vop)	2.6~5 VDC
3	Operating current (Iop)	< 40mA
4	Continuous wave output power (Po)	LPT<1mW / LPA \leq 3mW
5	Wavelength at peak emission (λ_p)	770~795nm
6	Collimating lens	Aspherical plastic lens($\phi 7$)
7	Spot size at 5M	5 \pm 1 mm
8	Divergence (Half Angle)	0.5 mrad
9	Operating temp. range	+10°C ~+40°C
10	Storage temp. range	-20°C ~+65°C
11	Housing	Brass
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-780-01 Series

ORDER CODE

Order Code	Wavelength	Output Power	Connection Type
VLM-780-01 LPA	780 nm	$\leq 3\text{mW}$	Lead Wire
VLM-780-01 LPT	780 nm	$< 1\text{mW}$	Lead Wire
VLM-780-01 SPA	780 nm	$\leq 3\text{mW}$	Spring
VLM-780-01 SPT	780 nm	$< 1\text{mW}$	Spring

SAFETY LABEL

