



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

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

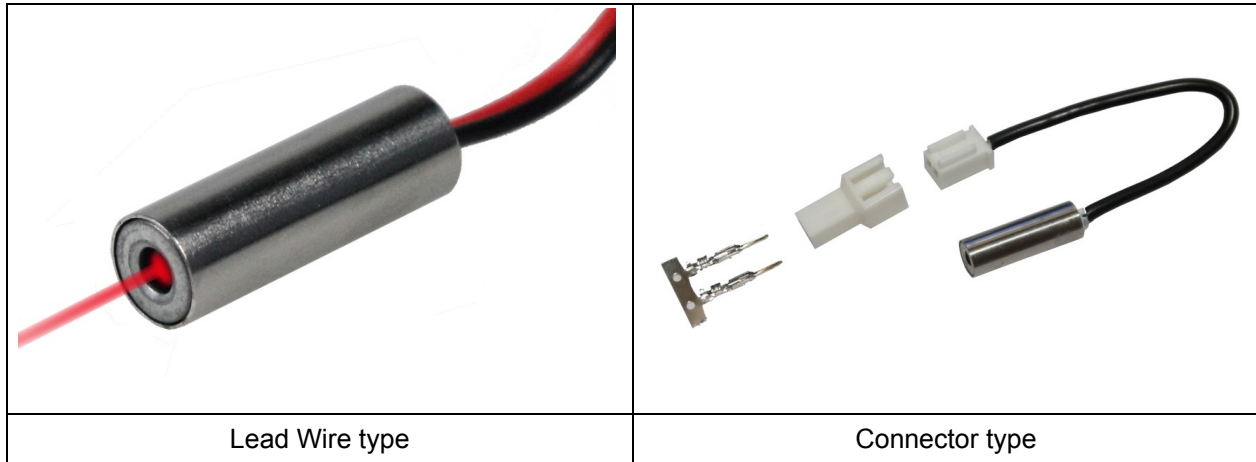
Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



## Economical Laser

### VLM-635/650-03 Series



#### FEATURES:

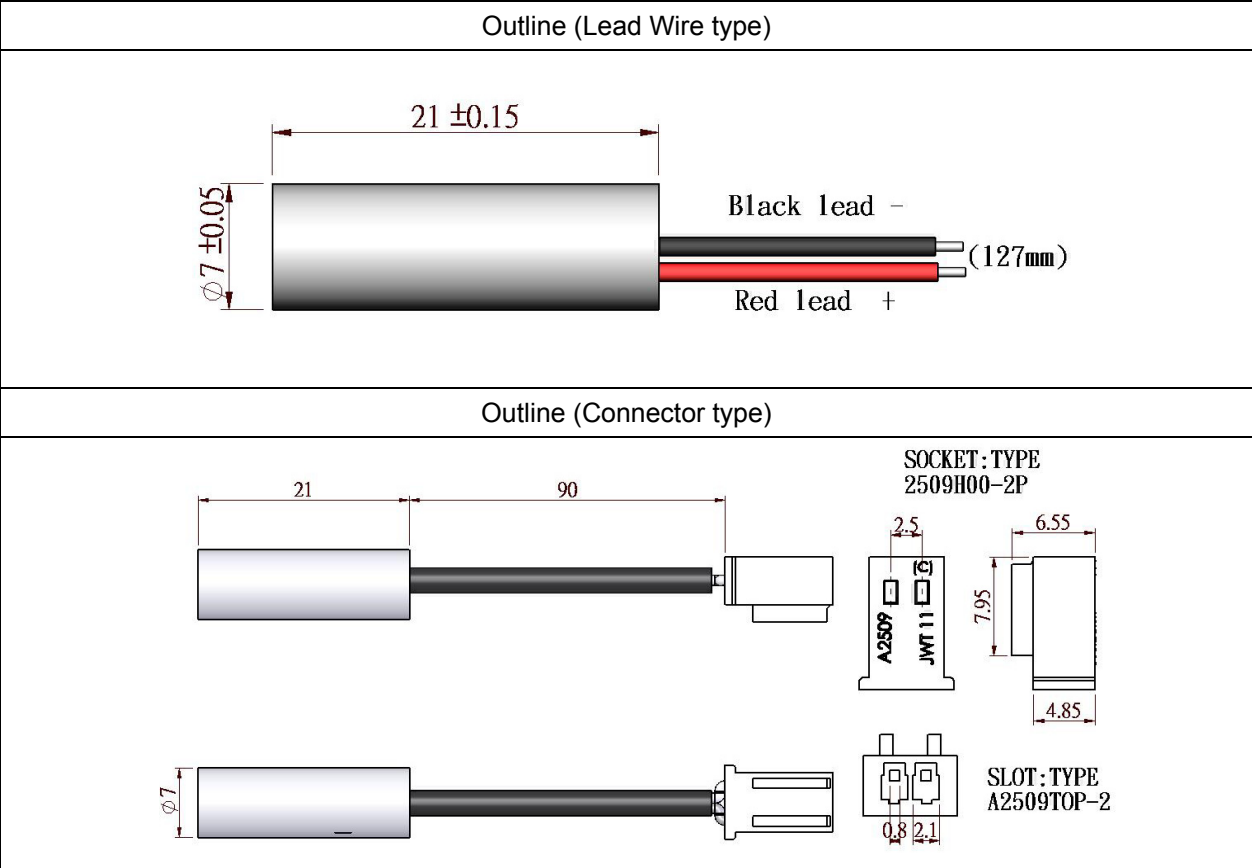
- Economical Red Dot Laser.
- Ideal for economical Laser Pointer solution.
- This module has integrated optic, laser diode, and APC driver circuit.
- APC Driver Circuit enables the Laser output power safe and constant.
- Aspherical plastic lens provides Dot Laser.
- Dimensions:  $\Phi 7 \times 21$  mm ( $\Phi 0.276" \times 0.827"$ )
- Wavelength : 635 / 650 nm
- Output power: Class II – less than 1mW / Class IIIa – less than 5mW.
- Beam Divergence (Half Angle) : 0.6 mRad
- 2.6~5 VDC operation.
- Connection type: Lead wire / Connector.

#### APPLICATIONS:

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

## VLM-635/650-03 Series

### OUTLINE DIMENSIONS (UNITS: mm)



### SPECIFICATIONS

SPECIFICATIONS		635-03	650-03
1	Dimensions	Φ7 x 21 mm (Φ0.276" x 0.827")	
2	Operating voltage (Vop)	2.6~5 VDC	
3	Operating current (Iop)	< 50mA	< 35mA
4	Continuous wave output power (Po)	LPT<1mW / LPA ≤ 2.5mW	
5	Wavelength at peak emission (λp)	630~645nm	645~665nm
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	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-635/650-03 Series

### ORDER CODE

Order Code	Wavelength	Output Power	Connection Type
VLM-635-03 LPA	635 nm	≤ 2.5mW	Lead Wire
VLM-635-03 LPT	635 nm	< 1mW	Lead Wire
VLM-635-03 CPA	635 nm	≤ 2.5mW	Connector
VLM-635-03 CPT	635 nm	< 1mW	Connector
VLM-650-03 LPA	650 nm	≤ 2.5mW	Lead Wire
VLM-650-03 LPT	650 nm	< 1mW	Lead Wire
VLM-650-03 CPA	650 nm	≤ 2.5mW	Connector
VLM-650-03 CPT	650 nm	< 1mW	Connector

### SAFETY LABEL

