



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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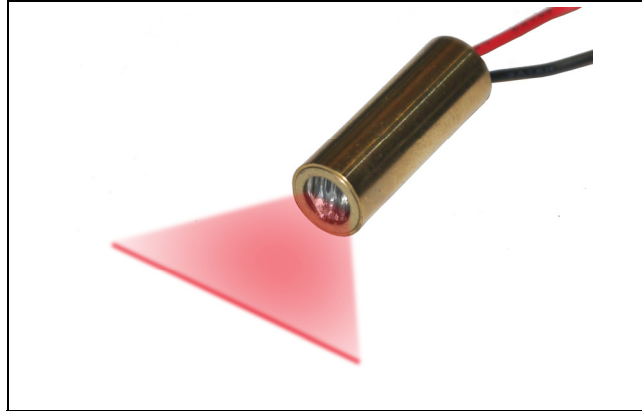
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## Economical Line Laser

### VLM-650-28 Series



#### FEATURES:

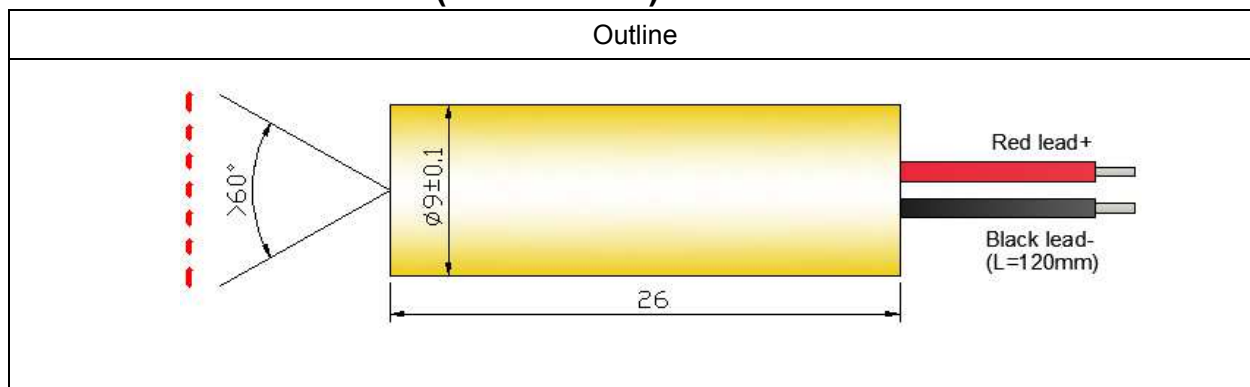
- Economical Red Line Laser.
- Line-width optimize at short distance(1m) for consumer grade laser line generator applications.
- This module has integrated wavy lens, collimating lens, laser diode, and APC driver circuit.
- APC driver circuit enables the Laser output power safe and constant.
- Includes patented solid brass structure for the best shock resistance and better heat transfer consideration.
- Aspherical Plastic Lens and Plastic Wavy Lens provides Line Laser.
- Dimensions:  $\Phi 9 \times 26$  mm( $\Phi 0.354" \times 1.024"$ )
- Wavelength : 650 nm
- Output power (Center/Total) : Class II – less than 1mW / 2mW
- Laser line accuracy: 80" (+/- 2mm @5m).
- Emitting angle:  $> 60^\circ$
- 2.6~5 VDC operation.
- Connection type: Lead wire

#### APPLICATIONS:

- Economical Red Line Laser, Line-width optimize at short distance(1m) for consumer grade 3d-Scanner, barcode reader, leveling, alignment, adjusting, positioning, measuring and targeting device.
- Wood processing.
- Metal processing.
- Stone processing.
- Textile industry.
- Food industry.
- Automotive industry.
- Medical science

## VLM-650-28 Series

### OUTLINE DIMENSIONS (UNITS: mm)



### SPECIFICATIONS

SPECIFICATIONS		650-28
1	Dimensions	Φ9 x 26 mm(Φ0.354" x 1.024")
2	Operating voltage (Vop)	2.6~5 VDC
3	Operating current (Iop)	< 35mA
4	Continuous wave output power (Center)	<1mW
5	Continuous wave output power (Total)	2mW
6	Wavelength at peak emission (λp)	645~665nm
7	Wavy lens	Plastic lens
8	Collimating lens	Aspherical plastic lens(ø5)
9	Laser line Width	1.2mm@1m
10	Laser line accuracy	80" (+/- 2mm @5m)
11	Emitting angle	> 60°
12	Operating temp. range	+15°C ~ +30°C (Room Temperature)
13	Storage temp. range	-20°C ~+65°C
14	Housing	Brass
15	Mean time to failure (MTTF) 25°C	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-650-28 Series

### ORDER CODE

Order Code	Wavelength	Total Output Power	Connection Type
VLM-650-28 LPT	650 nm	2 mW	Lead Wire

### SAFETY LABEL

