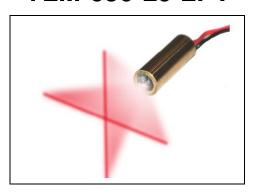
Quarton inc.

Cross Line Laser

VLM-650-29 LPT



FEATURES:

- Red Cross-Line Laser.
- Line-width optimize at short distance(40cm) for consumer grade Laser Cross-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 Cross-Line Laser.
- Dimensions: Ø9 x 26 mm (Ø0.354" x 1.024")
- Wavelength: 650 nm
- Laser power output: LPT Class 1M less than 0.39mW
- Laser line accuracy: 80"
- Emitting Angle: >60°
- 2.6~6 VDC operation.
- Connection type : Lead wire

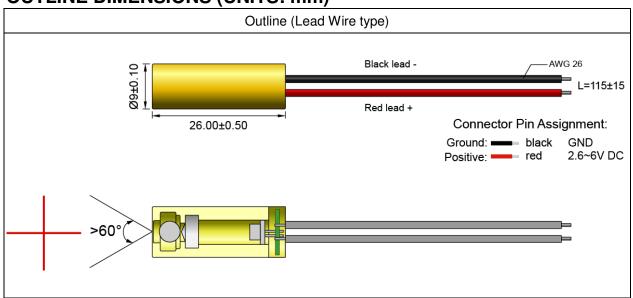
APPLICATIONS:

- Red Cross-Line Laser, Line-width optimize at short distance(40cm) for consumer grade barcode reader, leveling, alignment, adjusting, positioning, measuring, targeting and sighting device.
- Wood processing.
- Metal processing.
- Stone processing.
- Textile industry.
- Food industry.
- Automotive industry.
- Medical science.

Quarton inc.

VLM-650-29 LPT

OUTLINE DIMENSIONS (UNITS: mm)



SPECIFICATIONS

PT		
Ø9 x 26 mm (Ø0.354" x 1.024")		
2.6~6 VDC		
Less than 35mA		
Less than 2mW		
Less than 0.39mW		
Class 1M		
645~665nm		
Plastic lens		
Plastic lens		
n		
5M)		
More than 60°		
+15°C ~+30°C		
-20°C ~+65°C		
VDD(+)		



VLM-650-29 LPT

18	Electrostatic discharge (ESD)	30KV		
19	Moisture sensitivity level (MSL)	Level 1 - acc to JEDEC J-STD-020E.		
20	Wire type	1007-26 AWG		
21	Cable length	115±15mm		
22	Mean time to failure (MTTF) 25°C	5000hrs		
23	Application	Economic application		
24	Suggestion work distance	0~1 meter / 0~3 feet		

^{*} Optical power is total power output measured at the aperture of the laser.

- *** Operation temperature 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.

ORDER CODE

Order Code	Wavelength	Optical power*	Laser power output**	Laser Class	Connection Type
VLM-650-29 LPT	650 nm	Less than 2mW	Less than 0.39mW	Class 1M	Lead Wire

^{*} Optical power is total power output measured at the aperture of the laser.

SAFETY LABEL

CLASS I LASER PRODUCT

^{**} According to FDA 1040.10 & IEC 60825-1 regulations, laser power output is measured by 7mm aperture stop from a 10 cm distance of the laser.

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