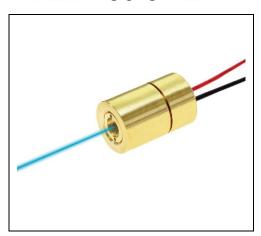
Quarton inc.

Blue High Power Laser Module

VLM-450-91 LPB



FEATURES:

- Blue Laser Diode module to provide large temperature operation range.
- This module has integrated optic, laser diode and APC driver circuit.
- APC driver circuit enables the laser output power safe and constant.
- Aspherical Glass Lens provides tight laser dot.
- Dimensions: Ø16 x 25 mm (Ø0.629" x 0.984")
- Wavelength: 450 nm
- Laser power output: LPB Class IIIb 60mW.
- 4~6 VDC operation.
- Connection type : Lead wire

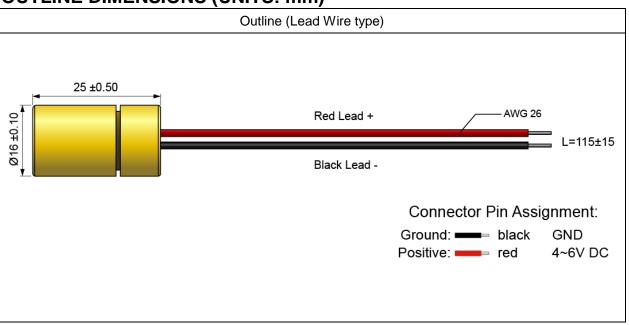
APPLICATIONS:

- Direct Blue Dot Laser Module.
- Special lighting.
- Laser Marking.
- Medical Science application.

Quarton inc.

VLM-450-91 LPB

OUTLINE DIMENSIONS (UNITS: mm)



SPECIFICATIONS

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SPECIFICATIONS	VLM-450-91					
SI ECII ICATIONS	LPB					
Dimensions	Ø16 x 25 mm (Ø0.629" x 0.984")					
Weight	31.5±0.5g					
Operating voltage (Vop)	4~6 VDC					
Operating current (lop)	Less than 500mA					
Laser power output	60mW					
Laser class	Class IIIb					
Wavelength at peak emission (λp)	450nm					
Collimating lens	Aspherical glass lens					
Output aperture	5mm					
Beam shape	Ellipse					
Beam alignment	Less than 3°					
Spot Size at 10M	Less than 15mm					
Operating temp. range*	-20°C ~+60°C					
Storage temp. range	-20°C ~+85°C					
Housing material	Bronze					
Potential housing**	VDD(+)					
Electrostatic discharge (ESD)	30KV					
	SPECIFICATIONS Dimensions Weight Operating voltage (Vop) Operating current (Iop) Laser power output Laser class Wavelength at peak emission (λp) Collimating lens Output aperture Beam shape Beam alignment Spot Size at 10M Operating temp. range* Storage temp. range Housing material Potential housing** Electrostatic discharge (ESD)					

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VLM-450-91 LPB

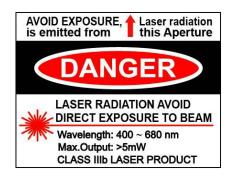
18	Moisture sensitivity level (MSL)	Level 1 - acc to JEDEC J-STD-020E.		
19	ire type 1007-26 AWG			
20	Cable length	115±15mm		
21	Mean time to failure (MTTF) 25°C	10000hrs		
22	Application	High power		
23	Suggestion work distance	1~30 meters / 3~100 feet		

^{*} Operation temperature: it 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.

ORDER CODE

Order Code	Wavelength	Laser power output	Laser Class	Connection Type
VLM-450-91 LPB	450 nm	60mW	Class IIIb	Lead Wire

SAFETY LABEL



^{**} 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.