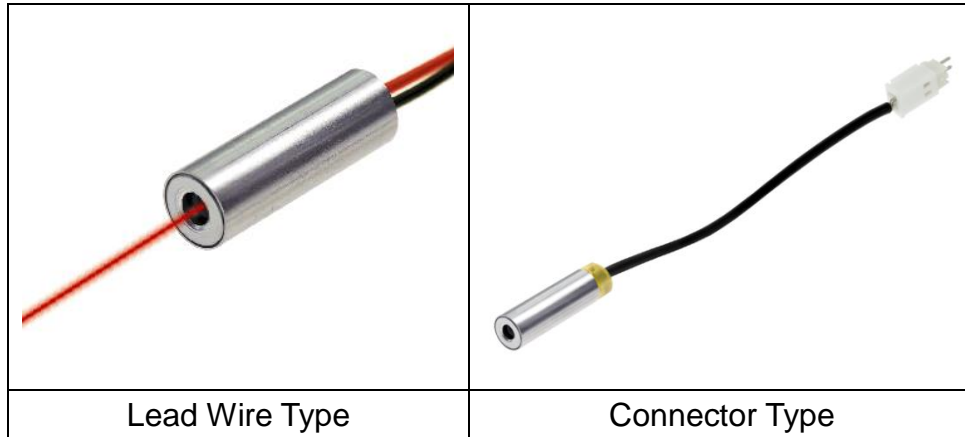


Laser engraver position Module

VLM-650-25 LPT



FEATURES:

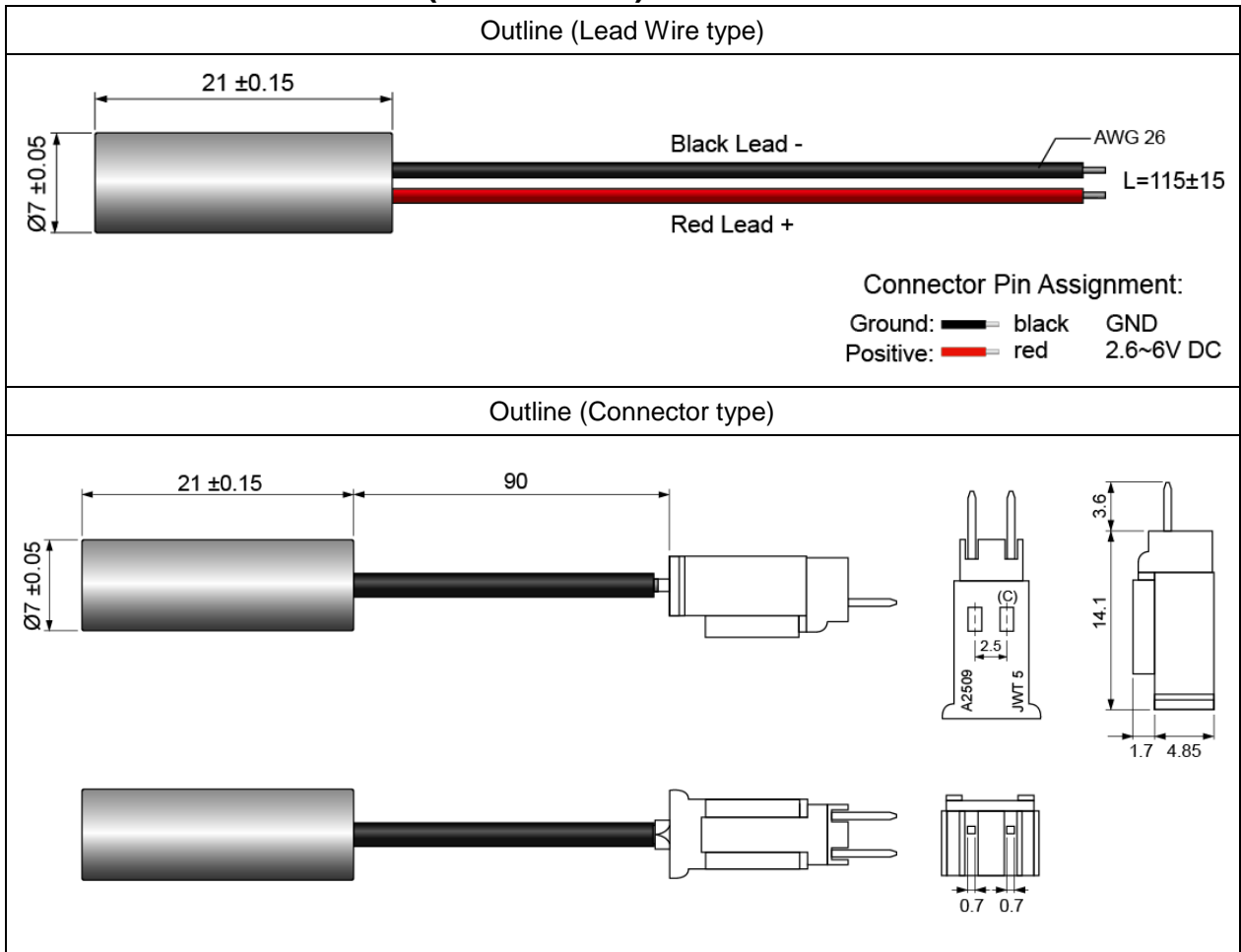
- Ideal for precision position.
- Spot size less than 1.1mm in the range from 18cm to 45cm.
- Built-by industry grade laser diode.
- APC Driver Circuit enables the Laser output power safe and constant.
- Aspherical plastic lens provides tight Laser Dot.
- Dimensions : Ø7 x 21 mm (Ø0.276" x 0.827")
- Wavelength : 645~665 nm
- Laser power output : LPT - Class II - less than 1mW.
- 2.6~6 VDC operation.
- Connection type : Lead wire / Connector(A pair).

APPLICATIONS:

- Small spot for short range application, ideal pilot laser for laser marking, cutting, welding machine.
- Laser engraver.
- Laser cutting machine.

VLM-650-25 LPT

OUTLINE DIMENSIONS (UNITS: mm)



SPECIFICATIONS

SPECIFICATIONS		VLM-650-25	
		LPT	CPT
1	Dimensions	\varnothing 7 x 21 mm (\varnothing 0.276" x 0.827")	
2	Weight	3 \pm 0.5 g	
3	Operating voltage (Vop)	2.6~6 VDC	
4	Operating current (Iop)	Less than 30mA	
5	Laser power output	Less than 1mW	
6	Laser class	Class II	
7	Wavelength at peak emission (λ_p)	645~665 nm	
8	Collimating lens	Aspherical plastic lens	
9	Output aperture	3mm	
10	Beam shape	Ellipse	
11	Spot size at 18~45 cm	Less than 1.1mm	

VLM-650-25 LPT

12	Beam alignment	Less than 3°	
13	Operating temp. range*	+15°C ~+30°C (Room Temperature)	
14	Storage temp. range	-20°C ~+65°C	
15	Housing	Steel	
16	Potential of housing**	VDD(+)	
17	Electrostatic discharge (ESD)	20KV	
18	Moisture sensitivity level (MSL)	Level 1 - acc to JEDEC J-STD-020E.	
19	Wire type	1007-26AWG	2509 connector
20	Cable length	115±15mm	90mm
21	Mean time to failure (MTTF) 25°C	10000hrs	
22	Application	Laser engrave machine pilot laser	
23	Suggestion work distance	18~45 cm / 6"~18"	

* 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.

** 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	Laser Power Output	Laser Class	Connection Type
VLM-650-25 LPT	650 nm	Less than 1mW	Class II	Lead Wire
VLM-650-25 CPT	650 nm	Less than 1mW	Class II	Connector

SAFETY LABEL

