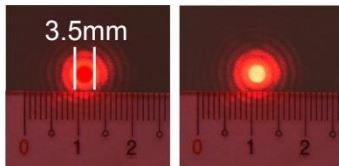
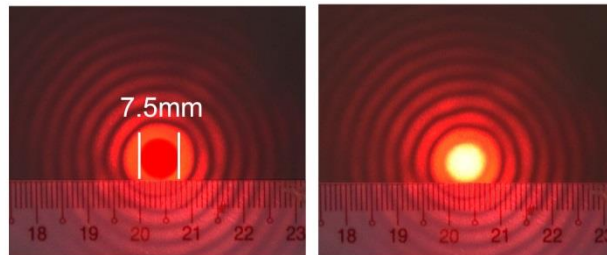


Ultra-Far Range Laser

VLM-635-17-Series



Spot size at 20M



Spot size at 40M

FEATURES:

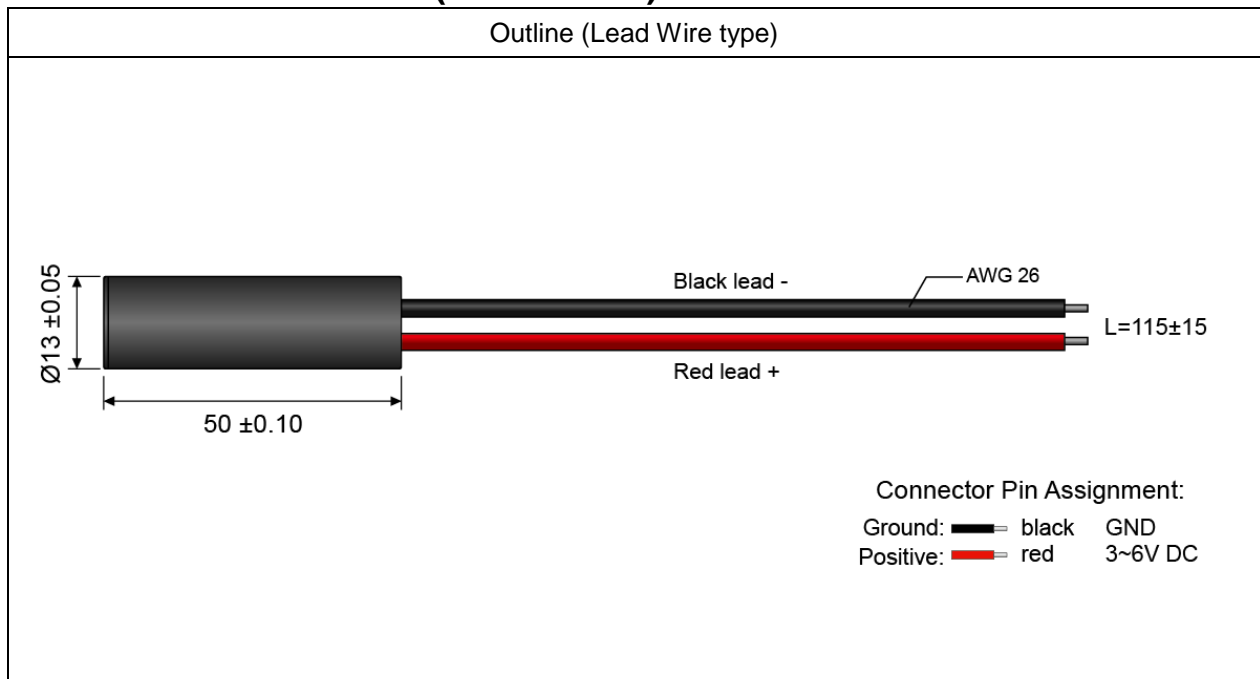
- Ultra-Far Range Round Dot Laser for long range alignment, positioning, measuring and pointing.
- Diffraction Limited Lens to achieve a near-collimated Laser system, which can be sighted Ultra-Far distance range.
- Perfect Round Dot less than 3/4 inch at 100 yards / 22mm at 100 meters.
- Anodized aluminum housing provides insulated housing.
- This module has integrated optic, laser diode, and APC driver circuit.
- APC Driver Circuit enables the Laser output power safe and constant.
- Glass-base hybrid lens provides Ultra-Far range Round Dot Laser.
- Dimensions : $\text{Ø}13 \times 50 \text{ mm}$ ($\text{Ø}0.511" \times 1.96"$).
- Wavelength : 630~645 nm
- Laser power output : LPT - Class II – 0.7~0.9mW.
LPA - Class IIIa – 2~3mW
LPB - Class IIIb – 5~6mW
- Beam Divergence (Half Angle) : $<0.1 \text{ mRad}$
- 3~6 VDC operation.
- Connection type: Lead wire.

APPLICATIONS:

- Red Round Dot Laser-glass aspherical lens with long back focus length function to generate smallest spot at long distances. Ideal use for long distance alignment position, surveying instruments, targeting, professional laser sight and security monitor.

VLM-635-17-Series

OUTLINE DIMENSIONS (UNITS: mm)



SPECIFICATIONS

SPECIFICATIONS		VLM-635-17		
		LPT	LPA	LPB
1	Dimensions	$\varnothing 13 \times 50$ mm ($\varnothing 0.511" \times 1.96"$)		
2	Weight	<15g		
3	Operating voltage (Vop)	3~6 VDC		
4	Operating current (Iop)	Less than 60mA	Less than 70mA	Less than 85mA
5	Laser power output	0.7~0.9mW	2~3mW	5~6mW
6	Laser class	Class II	Class IIIa	Class IIIb
7	Wavelength at peak emission (λ_p)	630~645nm		
8	Collimating lens	Aspherical glass lens		
9	Output aperture	8mm		
10	Beam shape	Circular		
11	Spot size at 40M / 100M	Less than 9 mm / Less than 22mm		
12	Beam divergence(Half angle)	Less than 0.1 mRad		
13	Beam alignment	Less than 3°		
14	Operating temp. range*	-10°C ~+50°C		
15	Storage temp. range	-20°C ~+80°C		
16	Housing material	Aluminum		

VLM-635-17-Series

17	Potential of housing	Insulated
18	Electrostatic discharge (ESD)	30KV
19	Moisture sensitivity level (MSL)	Level 1 - acc to JEDEC J-STD-020E.
20	Wire type	1007-26AWG
21	Cable length	115±15mm
22	Mean time to failure (MTTF) 25°C	10000hrs
23	Application	Long range application
24	Suggestion work distance	10~500 meters / 40~2000 feet

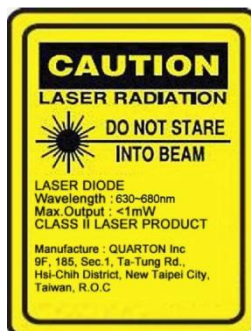
* Operation temperature: it means within this temperature range, the laser spot/line will not be affected to change the spot size/line width. It can still work over this range, but the laser spot size or laser line width will be larger.

ORDER CODE

Order Code	Wavelength	Laser Power Output	Laser Class	Connection Type
VLM-635-17 LPT	635 nm	0.7~0.9mW	Class II	Lead Wire
VLM-635-17 LPA	635 nm	2~3mW	Class IIIa	Lead Wire
VLM-635-17 LPB	635 nm	5~6mW	Class IIIb	Lead Wire

SAFETY LABEL

LPT:



LPA:



LPB:

