

Red Dot Laser Module

Specifications	Model Number	VLM-635-17 series	VLM-635-18 series VLM-650-18 series	VLM-635-96 LPA
				
Dimensions		Ø13 x 50 mm	Ø13 x 43.5 mm	Ø16.5 x 72.8 mm
Operating voltage		3~6 VDC	2.6~6 VDC	3~6 VDC
Operating current		Less than 60mA / 70mA / 85mA	Less than 35mA / 50mA	Less than 80mA
Laser power output		0.7~0.9mW / 2~3mW / 5~6mW	2.5±1mW	0~4.25±0.25mW (adjustable)
Laser class		Class 2 / Class 3R / Class 3B	Class 3R	Class 3R
Wavelength		630~645nm	630~645nm / 645~665nm	630~645nm
Collimating lens		Glass lens	Glass lens	Glass lens
Output aperture		8mm	6mm	5mm
Beam shape		Circular	Circular	Ellipse
Spot size		Less than 9 mm at 40M Less than 22 mm at 100M	Less than 16mm at 40M	Less than 0.2mm at 10mm Less than 8mm at 10M
Divergence (Full Angle)		Less than 0.1 mRad	0.2 mRad	Adjustable 0.4 mRad~12°
Beam alignment		Less than 3°	Less than 3°	
Operating temp. range		-10°C ~+50°C	-20°C ~+50°C	-10°C ~ +60°C
Storage temp. range		-20°C ~+80°C	-40°C ~+70°C	-20°C ~ +85°C
Housing material		Aluminum	Brass	Aluminum
Potential of housing		Insulated	VDD(+)	Insulated
Electrostatic discharge (ESD)		30KV	30KV	30KV
Moisture sensitivity level (MSL)		Level 1 - acc to JEDEC J-STD-020E.	Level 1 - acc to JEDEC J-STD-020E.	Level 1 - acc to JEDEC J-STD-020E.
Wire type		1007-26AWG	1007-26AWG	2464 2-WIRE CABLE 26 AWG
Cable length		115±15mm	115±15mm	330±30mm
Mean time to failure (MTTF) 25°C		10000hrs	5000hrs / 10000hrs	10000hrs
Application		Long range application	Long range application	Laboratory or medical research, physical-optic experiments
Suggestion work distance		10~500 meters / 40~2000 feet	10~200 meters / 30~600 feet	Above 10mm