

Red Dot Laser Module

Specifications	Model Number	VLM-635-02 series VLM-650-02 series	VLM-635-02G series VLM-650-02G series	VLM-635-96 LPA
				
Dimensions		Ø10.5 x 26 mm	Ø10.5 x 26 mm	Ø16.5 x 72.8 mm
Operating voltage		2.6~6 VDC	2.6~6 VDC	3~6 VDC
Operating current		Less than 35mA / 50mA	Less than 35mA / 50mA	Less than 80mA
Laser power output		Less than 1mW / 3mW	Less than 1mW / 2.5mW	0~4.25±0.25mW (adjustable)
Laser class		Class 2 / Class 3R	Class 2 / Class 3R	Class 3R
Wavelength		630~645nm / 645~665nm	630~645nm / 645~665nm	630~645nm
Collimating lens		Plastic lens	Glass lens	Glass lens
Output aperture		4mm	4mm	5mm
Beam shape		Ellipse	Ellipse	Ellipse
Spot size		5±1 mm at 5M Adjustment focus	4±1 mm at 5M Adjustment focus	Less than 0.2mm at 10mm Less than 8mm at 10M
Divergence (Full Angle)		0.5 mRad	0.4 mRad	Adjustable 0.4 mRad~12°
Beam alignment		Less than 3°	Less than 3°	
Operating temp. range		+10°C ~+40°C	-20°C ~+50°C	-10°C ~ +60°C
Storage temp. range		-20°C ~+65°C	-20°C ~+65°C	-20°C ~ +85°C
Housing material		Brass	Brass	Aluminum
Potential of housing		VDD(+)	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 / Spring	1007-26AWG / Spring	2464 2-WIRE CABLE 26 AWG
Cable length		115±15mm / 6.5±1mm	115±15mm / 6.5±1mm	330±30mm
Mean time to failure (MTTF) 25°C		10000hrs	10000hrs	10000hrs
Application		Focus adjustable	Focus adjustable	Laboratory or medical research, physical-optic experiments
Suggestion work distance		1~30 meters / 3~100 feet	1~30 meters / 3~100 feet	Above 10mm