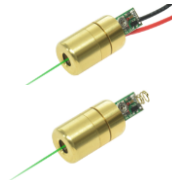


Green Dot Laser Module

Specifications	Model Number	VLM-520-02 series	VLM-520-17 series	VLM-520-92 LPB	VLM-520-96 LPA
					
Dimensions		Ø10.5 x 26 mm	Ø13 x 62 mm	Ø27.7 x 95.5 mm	Ø16.5 x 72.8 mm
Operating voltage		7~10 VDC	3~6 VDC	4~6 VDC	3~6 VDC
Operating current		Less than 80mA / 100mA	Less than 100mA / 150mA	Less than 1.5A	Less than 120mA
Laser power output		Less than 1mW / 4mW	0.7~0.9mW / 2~3mW / 5~6mW	400±20mW	0~4.25±0.25mW (adjustable)
Laser class		Class 2 / Class 3R	Class 2 / Class 3R / Class 3B	Class 3B	Class 3R
Wavelength		505~530nm	510~530nm	505~525nm	510~530nm
Collimating lens		Plastic lens	Glass lens	Glass lens	Glass lens
Output aperture		4mm	8mm	12.6mm	5mm
Beam shape		Ellipse	Circular	Ellipse	Ellipse
Spot size		Adjustment focus	Less than 9 mm at 40M Less than 22 mm at 100M	6mm at 100M	Less than 0.2mm at 10mm Less than 8mm at 10M
Divergence (Full Angle)		0.5 mRad	Less than 0.1 mRad	Less than 0.2mRad	Adjustable 0.4 mRad~12°
Beam alignment		Less than 3°	Less than 3°	±3°	
Operating temp. range		+10°C ~+40°C	-10°C ~+50°C	-10°C ~+60°C	-10°C ~ +60°C
Storage temp. range		-20°C ~+65°C	-20°C ~+80°C	-20°C ~+85°C	-20°C ~ +85°C
Housing material		Brass	Aluminum	Aluminum	Aluminum
Potential of housing		VDD(+)	Insulated	Insulated	Insulated
Electrostatic discharge (ESD)		30KV	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.	Level 1 - acc to JEDEC J-STD-020E.
Wire type		1007-26AWG / Spring	1007-26AWG	2464 2-WIRE CABLE 26 AWG	2464 2-WIRE CABLE 26 AWG
Cable length		115±15mm / 6.5±1mm	115±15mm	200±10cm	330±30mm
Mean time to failure (MTTF) 25°C		10000hrs	10000hrs	10000hrs	10000hrs
Application		Focus adjustable	Long range application	Long-range targeting	Laboratory or medical research, physical-optic experiments
Suggestion work distance		1~30 meters / 3~100 feet	10~500 meters / 40~2000 feet	10~1000 meters or above	Above 10mm