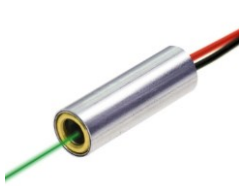
Green Dot Laser Module

Specifications / Model Number	VLM-520-03 series	VLM-520-04 series	VLM-532-42 series	VLM-520-73 series	VLM-520-74 series
					
Dimensions	Ø7 x 21 mm	Ø6.55 x 28.6 mm	Ø10.5 x 46.5 mm	Ø7 x 26.1 mm	Ø6.5 x 26 mm
Operating voltage	7~10 VDC	3~6 VDC	2.7~3.3 VDC	3~6 VDC	3~6 VDC
Operating current	Less than 80mA	Less than 150mA	Less than 300mA	Less than 150mA / 200mA	Less than 150mA / 200mA
Laser power output	Less than 0.39mW / 1mW	Less than 1mW	Less than 1mW / 5mW	Less than 1mW / 4mW	Less than 1mW / 4mW
Laser class	Class 1 / Class 2	Class 2	Class 2 / Class 3R	Class 2 / Class 3R	Class 2 / Class 3R
Wavelength	505~530nm	505~530nm	532nm	505~530nm	505~530nm
Collimating lens	Plastic lens	Plastic lens	Glass lens	Glass lens	Glass lens
Output aperture	3mm	3mm		4.3mm	4.3mm
Beam shape	Ellipse	Ellipse	Circular	Ellipse	Ellipse
Spot size	Less than 5mm at 5M	Less than 5mm at 5M	6±1 mm at 3M	Less than 7mm at 10M	Less than 7mm at 10M
Divergence (Full Angle)	0.6 mRad	0.6 mRad	1 mRad	Less than 0.6 mRad	Less than 0.6 mRad
Beam alignment	Less than 3°	Less than 3°	Less than 3°	Less than 3°	Less than 3°
Operating temp. range	+15°C ~+30°C	+10°C ~+40°C	+20°C ~+30°C	-20°C ~+60°C	-20°C ~+60°C
Storage temp. range	-20°C ~+65°C	-20°C ~+65°C	-20°C ~+65°C	-40°C ~+85°C	-40°C ~+85°C
Housing material	Stainless steel	Zinc alloy	Brass	Stainless steel	Bronze
Potential of housing	VDD(+)	VDD(+)	VDD(+)	VDD(+)	VDD(+)
Electrostatic discharge (ESD)	20KV	20KV	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.	Level 1 - acc to JEDEC J-STD-020E.
Wire type	1007-26AWG	1007-26AWG	1007-26AWG / Spring	1007-26AWG	1007-26AWG
Cable length	115±15mm	115±15mm	115±15mm / 7±1mm	115±15mm	115±15mm
Mean time to failure (MTTF) 25°C	5000hrs	5000hrs	3000hrs	10000hrs	10000hrs
Application	Economic type	Economic type	DPPS laser	Economic industrial application	Economic industrial application
Suggestion work distance	1~10 meters / 3~40 feet	1~10 meters / 3~40 feet	1~30 meters / 3~100 feet	1~30 meters / 3~100 feet	1~30 meters / 3~100 feet