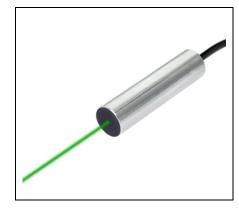
## **Green Dot Laser Module**

## VLM-520-60 Series



### FEATURES:

- Extremely small circular laser dot within 1 meter.
- Robust stainless steel housing.
- Built with high precision glass lens.
- Customized focus within 1 meter available please direct contact us.
- Two laser power output level: LPO Class I laser product

LPT - Class II laser product

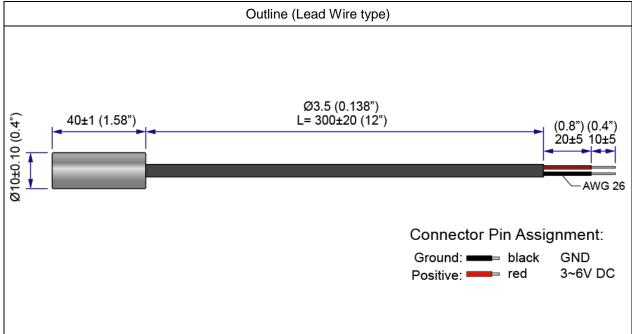
- Dimensions : Ø10 x 40 mm (Ø0.39" x 1.575")
- Wavelength : 515~530 nm
- 3~6 VDC operation.
- Connection type : Lead wire

### **APPLICATIONS: ideal for**

- Machine vision.
- Automation industry.
- Image processing.
- Medical & Science.
- Scanning.
- Counting.
- Measurement.

## VLM-520-60 Series

### **OUTLINE DIMENSIONS (UNITS: mm)**



### **SPECIFICATIONS**

Part Number		VLM-520-60 LPO	VLM-520-60 LPT				
1	Spot Size	< 1mm, From 0 to 50cm					
I		< 2mm, From 50cm to 90cm					
2	Dimensions	Ø10 x 40 mm (Ø0.39" x 1.575")					
3	Weight	15±1g					
4	Operating voltage (Vop)	3~6 VDC					
5	Operating current (lop)	Less than 60mA	Less than 150mA				
6	Laser power output	Less than 0.39mW	Less than 1mW				
7	Laser class	Class I	Class II				
8	Wavelength (λp)	515~530nm					
9	Collimating lens / Line generating lens	Aspherical glass lens					
10	Output aperture	0.6mm					
11	Beam shape	Circular					
12	Divergence (Half Angle)	Less than 0.4 mRad					
13	Beam alignment	Less than 3°					
14	Operating temp. range*	-20°C ~+60°C					
15	Storage temp. range	-20°C ~+85°C					
16	Housing material	Stainless steel					

## VLM-520-60 Series

17	Potential of housing	Insulated	
18	Electrostatic discharge (ESD)	30KV / Arc protection	
19	Moisture sensitivity level (MSL)	Level 1 - acc to JEDEC J-STD-020E.	
20	Wire type	2464 2-WIRE CABLE 26 AWG	
21	Cable length	330±30mm	
22	Mean time to failure (MTTF) 25°C	10000 hrs	
23	International Protection Marking	IP67	
24	Application	Industrial alignment	
25	Suggestion work distance	0~0.9 meters / 0~3 feet	

\* Operation temperature 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-520-60 LPT	520 nm	Less than 1mW	Class II	Lead Wire
VLM-520-60 LPO	520 nm	Less than 0.39mW	Class I	Lead Wire

SAFETY LABEL

LPO:

LPT:

CLASS I LASER PRODUCT



## **Optional Accessories**

**Quarton** offers mounts, power supply boards, battery pack and USB cable switch to help you running as quickly as possible. For more information, please visit <u>www.quarton.com</u>, <u>www.quarton.com/contact</u> or email <u>contact@quarton.com</u>.

**QLM-1125** - Laser Module Mount/Holder for diameter 6mm to 12.5mm, it's an ideal choose for mounted onto optical tables.

#### Feature:

- 4 directions adjustable.
- Can be mounted onto the optical table with screws (Screws not included).
- Engraved scale for precision adjustable.



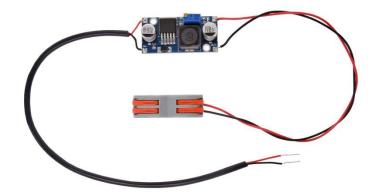
**LMPS-MP1** - Multi-function Laser Module Power Supply Board. Four input : USB, micro USB, DC Power Jack(5.5 x 2.1), and terminal block. Two channel output : 7 VDC 500mA and 5 VDC 1A. Three switches-toggle switch, remote switch and TTL signal.



#### Feature:

- Allow four kinds of power input: USB, micro USB, DC Power Jack(5.5x2.1) and terminal block.
- Two Channel output: 7 VDC 500mA and 5 VDC 1A.
- Built-in three switches: toggle switch, terminal block remote switch and TTL signal switch by on-board connect point.
- 7 VDC output work for all Quarton Laser Modules with 7-12 V operation Voltage (Vop).
- 5 VDC output work for all Quarton Laser Modules with 3-6 V operation Voltage (Vop).
- Three LED indicators: Input power indicator, 7V output indicator and 5V output indicator.

## **Optional Accessories**



LMPS-MP2 - DC converter, In: 9-36V, Out: 5V 1A.



**LMPS-mUSB1** - Laser Module Power Supply Board, Input: micro USB, Output: 5 VDC 500mA.

#### Feature:

- Micro USB connector power input.
- Output 5 VDC 500mA with alligator clips.
- For all Quarton Laser Modules that require 3-6V operation Voltage.



**LMPS-DC1** - Laser Module Power Supply Board, Input: DC Power Jack(5.5 x 2.1), Output: 5 VDC 500mA.

#### Feature:

- DC Power Jack(5.5 x 2.1) power input.
- Output 5 VDC 500mA with alligator clips.
- For all Quarton Laser Modules that require 3-6V operation voltage.



## **Optional Accessories**



#### CLM-BP4N3 - Battery pack (4\* AA batteries)

\*\*\* AA Batteries are **NOT** included in package.

#### Feature:

- USB Output Voltage: 5 VDC.
- Color: Black.



#### **CLM-USBSW** - USB Cable Switch.

#### Feature:

- Length: 28cm.
- Color: Black.



**CLM-UM3M** - USB to micro USB Cable.

#### Feature:

- Length: 3 meters.
- Color: Black.