# CW520-01C

- Green Laser Diode Module
- 515 nm, <1 mW</li>
- Fix Focus Acryl Lens
- Automatic Power Control
- USB-C connector





# Description

**CW520-01C** is a compact size fix collimated laser diode module with a typical emission wavelength of **515 nm**, and an optical output power of **<1 mW**. It features automatic power control **(APC)** driving electronics for stable operation, and comes with an industry standard **USB-C connector**. A matching **heat sink**, and suitable **laser module holder** is optionally available for quick setup and convenient operation (see next page for details).

# Maximum Ratings

Parameter	Valu	Unit	
	Min.	Max.	
Operating temperature	+ 10	+ 50	°C
Storage temperature	- 20	+ 70	°C

# Electro-Optical Characteristics (TCASE = 25°C)

Parameter	Values		I Imit		
	Min.	Тур.	Max.	Unit	
Peak Wavelength	505	515	525	nm	
Radiated Power			1	mW	
Beam diameter at aperture		3		mm	
Beam divergence		1.0		mrad	
Supply Voltage		5		VDC	
Material body	brass				
Material lens	acryl				
Dimensions	Ø 12 x 18 (37)			mm	
Connector	IEC 62680-1-3 (USB-C)				
MTTF	3000			h	

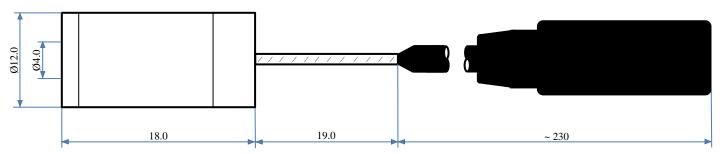


LASER RADIATION
DO NOT STARE INTO BEAM
CLASS 2 LASER PRODUCT

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# **Outline Dimensions**

#### all dimensions in mm



### **Precautions**

#### **Static Electricity:**

Precautions against electrostatic discharge (ESD) must be taken when handling or operating the module. Surge voltage or electrostatic discharge can result in complete failure of the laser diode.

#### **Heat Sinking:**

In order to maintain lifetime and stability of the laser diode it is essential to provide efficient heat management. For long time stable operation an additional heat sink is recommended.

#### Safety:

This laser module emits highly concentrated visible light, which can be hazardous to the human eye and skin. It is classified as CLASS 2 laser product according to IEC 60825-1 and 21 CFR Part 1040.10 Safety Standards. Actual laser light emitted and precautions necessary strongly depend on mode of operation.



# Accessories

#### **Heat Sink**

### SQ50x34

- Al, black anodized
- Clamping mechanism
- 50 x 50 x 34 mm
- 114 q



### Holder

# **RLM-1250**

- Steel, black anodized
- Height, reach, tilt adjustable
- Fixture 360° turnable
- Max. diameter: 12.5 mm
- 69 x 67 mm
- 152 g



The above specifications are for reference purpose only and subjected to change without prior notice

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