CW520-05C

- Green Laser Diode Module
- 515 nm, <5 mW
- Fix Focus Acryl Lens
- Automatic Power Control
- USB-C connector





Description

CW520-05C is a compact size fix collimated laser diode module with a typical emission wavelength of 515 nm, and an optical output power of <5 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			Heit	
	Min.	Тур.	Max.	Unit	
Peak Wavelength	505	515	525	nm	
Radiated Power			5	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	

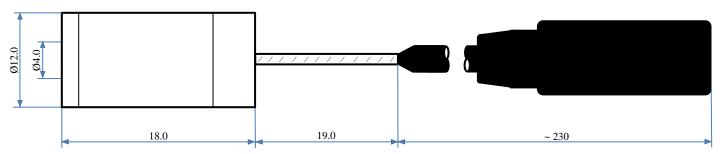


LASER RADIATION
DO NOT STARE INTO BEAM
CLASS 2 LASER PRODUCT

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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.

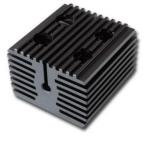


Accessories

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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