

CW450-05C

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





Description

CW450-05C is a compact size fix collimated laser diode module with a typical emission wavelength of **450 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	+ 60	°C
Storage temperature	- 20	+ 80	°C

Electro-Optical Characteristics (T CASE = 25°C)

Parameter	Values			Unit	
	Min.	Тур.	Max.	Unit	
Peak Wavelength	440	450	460	nm	
Radiated Power			5	mW	
Beam diameter at aperture		2		mm	
Beam divergence		1.0		mrad	
Supply Voltage		5		VDC	
Material body	brass				
Material lens	acryl				
Dimensions	Ø 12 x 24.5 (49) mm				
Connector	IEC 62680-1-3 (USB-C)				
MTTF	3000			h	

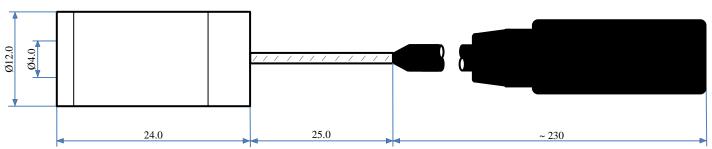


LASER RADIATION AVOID DIRECT EYE EXPOSURE CLASS 3R LASER PRODUCT



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 3R 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.





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