

CW650-10C

- **RED Laser Diode Module**
- 650 nm, 10 mW
- Focusable Acryl Lens
- **Automatic Power Control**
- **USB-C Connector**







Description

CW650-10C is a compact size fix collimated laser diode module with a typical emission wavelength of 650 nm, and an optical output power of 10 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	Val	Heit	
	Min.	Max.	Unit
Operating temperature	- 10	+ 50	°C
Storage temperature	- 40	+ 70	°C



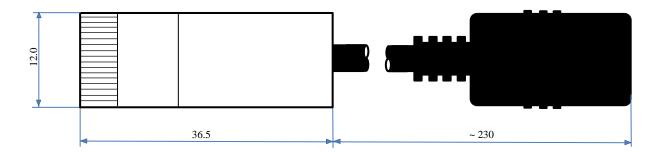
Electro-Optical Characteristics (TCASE = 25°C)

Parameter	Values		Unit	
	Min.	Тур.	Max.	Offic
Peak Wavelength		650		nm
Radiated Power		10		mW
Beam diameter at aperture		4		mm
Beam shape	elliptical			
Beam divergence		1.0		mrad
Supply Voltage		5		VDC
Material body	Brass, Nickel plated (+VDC)			
Material lens	acryl			
Dimensions	Ø 12 x 36.5		mm	
Connector	IEC 62680-1-3 (USB-C)			

LASER RADIATION

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Outline Dimensions



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 module, it is essential to provide efficient heat management.

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.



Accessories

Heat Sink

SQ50x34

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



Holder

RLM-1250

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



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