

# CW635-01C

- RED Laser Diode Module
- 635 nm, <1 mW</li>
- Focusable Acryl Lens
- Automatic Power Control
- USB-C Connector



### Description

CW635-01C is a compact size fix collimated laser diode module with a typical emission wavelength of 635 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	Va	l In:t	
	Min.	Max.	Unit
Operating temperature	- 10	+ 50	°C
Storage temperature	- 40	+ 70	°C



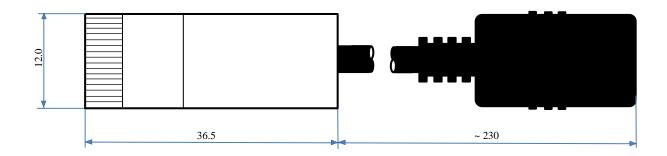
# Electro-Optical Characteristics (T CASE = 25°C)

Parameter	Values			Unit	
	Min.	Тур.	Max.	Unit	
Peak Wavelength		635		nm	
Radiated Power			1	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 DO NOT STARE INTO BEAM CLASS 2 LASER PRODUCT



# **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 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 Holder SQ50x34 • Al, black anodized • Clamping mechanism • 50 x 50 x 34 mm • 114 g • Keel, black anodized • Height, reach, tilt adjustable • Fixture 360° turnable • Max. diameter: 12.5 mm • 69 x 67 mm

• 152 g

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