



CW532-01C

- Green DPSS Laser Module
- 532 nm, <1 mW
- Fix Focus Acryl Lens
- Automatic Power Control
- USB-C connector



Description

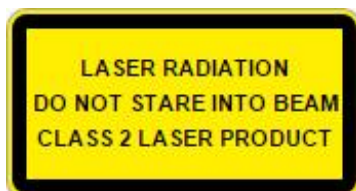
CW532-01C is a compact size fix collimated diode pumped solid state (**DPSS**) Nd:YVO4+KTP laser module with a typical emission wavelength of **532 nm**, and an optical output power of **<1 mW**. It features automatic power control (**APC**) driving electronics for stable operation, an **IR filter** to block residue IR radiation, 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	Values		Unit
	Min.	Max.	
Operating temperature	+ 15	+ 30	°C
Storage temperature	- 20	+ 80	°C

Electro-Optical Characteristics (T_{CASE} = 25°C)

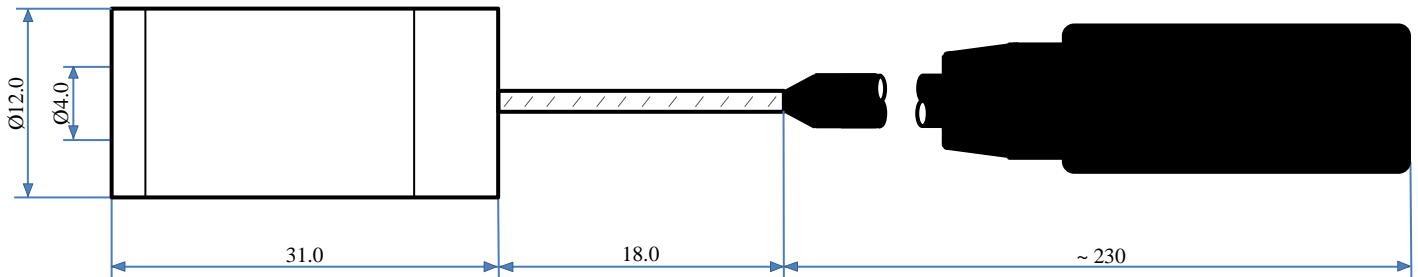
Parameter	Values			Unit
	Min.	Typ.	Max.	
Peak Wavelength	531	532	533	nm
Radiated Power			1	mW
Beam diameter at aperture		1.5		mm
Transverse mode	TEM ₀₀			
Warm up time		< 3		s
Beam divergence		0.6		mrad
Supply Voltage		5		VDC
Material body	brass			
Material lens	acryl			
Dimensions	Ø 12 x 31 (49)			mm
Connector	IEC 62680-1-3 (USB-C)			
MTTF	3000			h





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 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

