ROITHNER LASERTECHNIK GmbH
WIEDNER HAUPTSTRASSE 76 1040 VIENNA AUSTRIA
TEL. +43 1 586 52 43 -0, FAX. -44 OFFICE@ROITHNER-LASER.COM

CW532-1-831

- **Green DPSS Laser Module**
- **532 nm, <1 mW**
- **Fix Focus Acryl Lens**
- **Automatic Power Control**
- **3 VDC Input Voltage**
- **IR Filter**



RoHS COMPLIANT Pb Pb-Free

Description

CW532-1-831 is a small 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 is designed for 3 VDC supply voltage. **CW532-1-831** comes equipped with a coaxial power connector. A matching **power supply** is optionally available for quick setup and convenient operation (see page 3 for details).

Maximum Ratings (T_{CASE} = 25°C)

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
Operating Current		150		mA
Supply Voltage	**2.2**	**3**	**3.2**	**VDC**
Material body		brass		
Material lens		acryl		
Dimensions		Ø 8 x 31 (49)		mm
Connector		IEC 60130-10, Type A, 5.5/2.1 mm		
MTTF	3000			h





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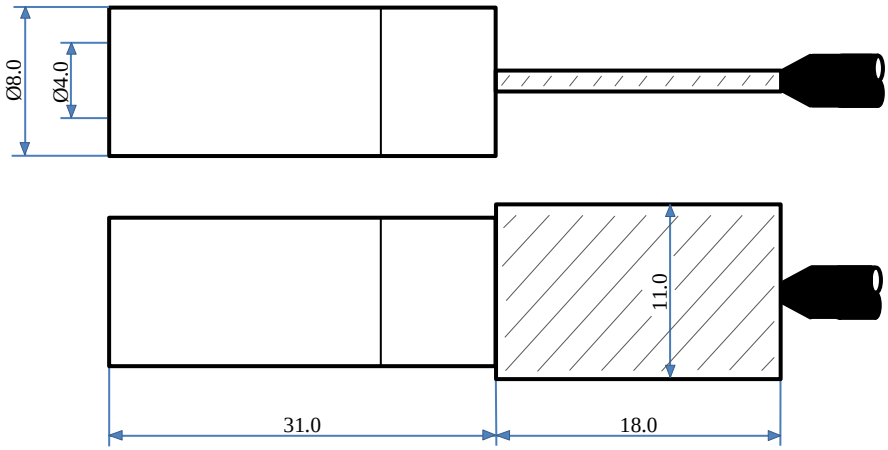
Outline Dimensions



all dimensions in mm

Electrical Connection

(IEC 60130-10, Type A, 5.5/2.1 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 proper contact between laser module and heat sink is mandatory.

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.



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Accessories

Laser Power Supply LPS31



- **110-230 VAC universal input voltage**
- **Small ripple (<80 mV)**
- **AC Europlug (CEE7/16)**
- **ON/OFF switch**
- **IEC 60130-10 Type A connector**
- **Output 3 VDC, max. 1 A**

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