



## CW532-5-833L

- Green DPSS Line Laser Module
- 532 nm, <5 mW
- 60° Fan Angle
- Automatic Power Control
- 3 VDC Input Voltage
- IR Filter



### Description

**CW532-5-833L** is a small size diode pumped solid state (**DPSS**) Nd:YVO<sub>4</sub>+KTP line laser module with a 60° line generating lens, emitting at a wavelength of **532 nm**, and an optical output power of **<5 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. A matching **power supply** is optionally available for quick setup (see page 3 for details).

### Maximum Ratings (T<sub>CASE</sub> = 25°C)

Parameter	Values		Unit
	Min.	Max.	
Operating temperature	+ 15	+ 30	°C
Storage temperature	- 20	+ 80	°C

### Electro-Optical Characteristics (T<sub>CASE</sub> = 25°C)

Parameter	Values			Unit
	Min.	Typ.	Max.	
Peak Wavelength	531	532	533	nm
<b>Radiated Power</b>			<b>5</b>	<b>mW</b>
Beam diameter at aperture		1.5		mm
Fan angle*		60		deg.
Transverse mode	TEM <sub>00</sub>			
Warm up time		< 3		s
Beam divergence		1.2		mrad
Operating Current		200		mA
<b>Supply Voltage</b>	<b>2.2</b>	<b>3</b>	<b>3.2</b>	<b>VDC</b>
Body	brass			
Collimating lens	acryl			
Line generating lens	2" cylinder lens, glass			
Dimensions	Ø 8 x 35 (53)			mm
Leads	2 x 10 cm, 26 AWG PVC-Free			
MTTF	3000			h

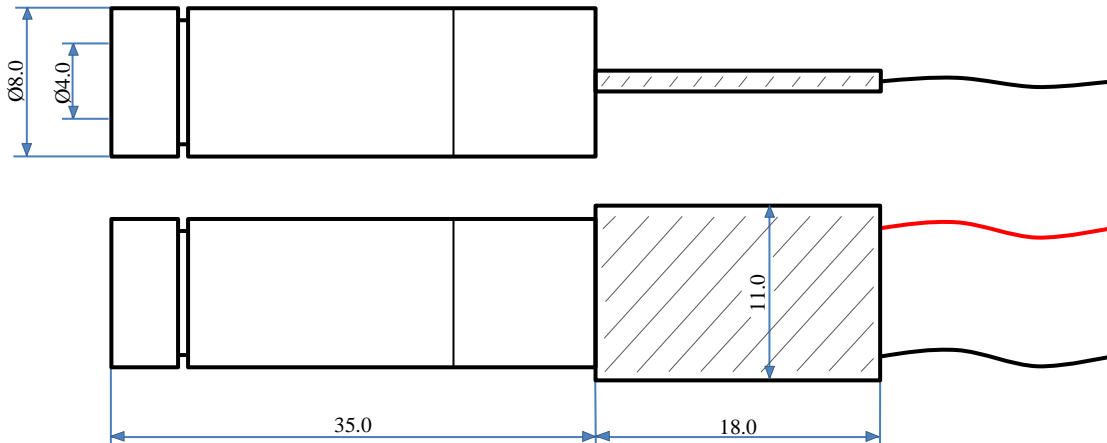


**LASER RADIATION**  
 AVOID DIRECT EYE EXPOSURE  
 CLASS 3R LASER PRODUCT

\* Fan angles of 45° and 120° are available on request



## Outline Dimensions



all dimensions in mm

## Electrical Connection

Lead	Description
Red	+VDC
Black	GND

## 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 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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## 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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