



## RLDD532-50-3

- Green Diode Pumped Solid State Laser Module
- 532 nm, 50 mW, APC
- Fixed Focus
- Dimension: Ø42 x 80 mm



### Description



**RLDD532** series of diode pumped solid state (DPSS) laser modules has been designed with emphasis on **superior beam quality**, and **reliable operation**. The modules body is made of black anodized aluminum, enclosing laser diode and lens. The 3 VDC driver circuit is executed as an external and separate unit, which working in **APC** (automatic power control) mode.

### Specifications

Parameter	Min.	Values Typ.	Max.	Unit
Peak Wavelength		532		nm
Optical Output Power		50		mW
Laser Class		3B		
Operating Voltage		DC 3		V
Operating Current			550	mA
Control		APC		
Standard Operating Distance		50		m
Focus		Fixed		
Beam Character		Roundish		
Output Aperture		Ø5		mm
Divergence		0.5		mrad
Optic	glass lens, both sides AR coated			
Crystal	Nd:YVO4 and KTP			
Beam Model	TEM00, continuous output			
Power Stability	<±20% at within operating temperature range			
Operating Temperature	+15		+30	°C
Storage Temperature	-20		+70	°C
Life Time	5000			hours
Material	black anodized aluminum			
Electrical Connection	connector plug and wires			
Dimension (Dia. x W)	Ø42 x 80			mm



## Precautions

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### Mounting Instruction:

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 Advice:

This laser module emits highly concentrated visible light which can be **hazardous to the human eye and skin**. It is classified as **CLASS 3B 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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