



RLCW520-5-5

- Green Diode Laser Module
- 520 nm, 5 mW
- Fixed Focus, APC
- Dimension: Ø8 x 35 mm



Description

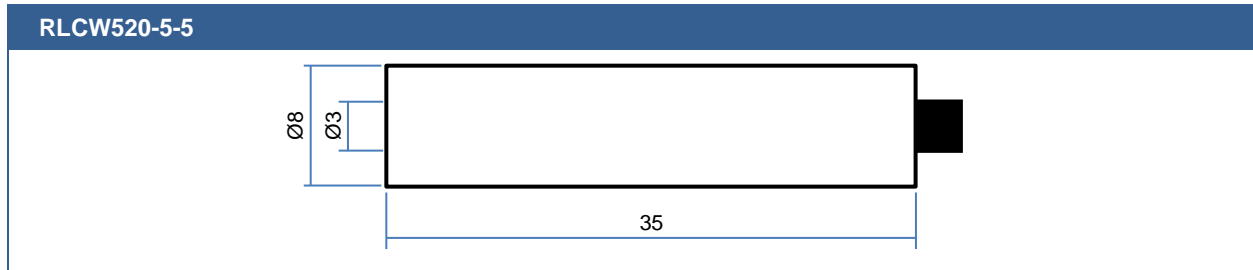
RLCW520 series of Diode Laser Modules has been designed with emphasis on **superior beam quality**, and **reliable operation**. The modules body is made of black anodized aluminum, enclosing laser diode, lens, and driving electronics. RLCW520 series features a **fixed glass lens optic** and a **wide operating temperature range**. The supply voltage is specified with **5 VDC**.

Specifications

Parameter		Min.	Values Typ.	Max.	Unit
Peak Wavelength		510	520	530	nm
Optical Output Power			5		mW
Output Power Stability (-10 ... +50°C)				±3	%
Laser Class			3R		
Operating Voltage, DC			5.0		V
Operating Current				150	mA
Control			APC		
Focus			Fixed		
Beam Character			Elliptical		
Elliptic Proportion			1:1.2		
Output Aperture			Ø3		mm
Divergence			0.8		mrad
Optic			Aspheric Glass Lens		
Beam Size	within 10 m			Ø8	mm
	within 30 m			Ø25	
Operating Temperature		-10		+60	°C
Storage Temperature		-30		+70	°C
Life Time		6000			hours
Material		black anodized aluminum			
Electrical Connection		connector plug			
Dimension (Dia. x W)		Ø8 x 35			mm
Weight					g



Outline Dimensions



All Dimensions in mm

Electrical Connection



Precautions

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 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.