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RLCW520-12-5

- Green Diode Laser Module
- 520 nm, 12 mW
- Fixed Focus, APC
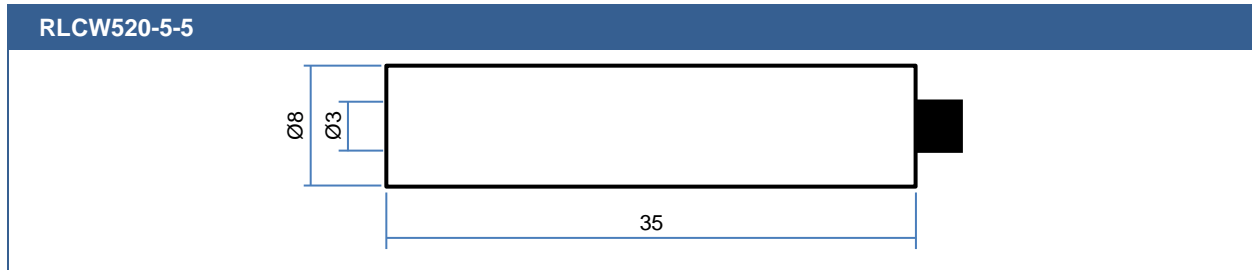- Dimension: Ø8 x 35 mm

RoHS COMPLIANT   Pb Pb-Free

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		Values			Unit
		Min.	Typ.	Max.	
Peak Wavelength		510	520	530	nm
Optical Output Power			12		mW
Output Power Stability (-10 … +50°C)				±3	%
Laser Class			3B		
Operating Voltage, DC			5.0		V
Operating Current			250		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

RLCW520-5-5

Ø8 Ø3

35

All Dimensions in mm

Electrical Connection

Connector plug

GND

+5 VDC

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 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.