



RLCW520FL-5-5

- Green Diode Line Laser Module
- 520 nm, 5 mW
- 90° Line, Cylinder Lens
- Focus Adjustable, APC
- Dimension: Ø16 x 65 mm



Description

RLCW520FL series of Diode Line 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, cylinder lens, and driving electronics. RLCW520FL series features an **adjustable 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)			±2	%
Laser Class		3		
Operating Voltage, DC		5.0		V
Operating Current			150	mA
Control	APC			
Focus	Adjustable			
Beam Character	Line			
Beam Size	@ 1 m		1	mm
	@ 10 m		3	
Output Aperture		Ø5		mm
Divergence		0.4		mrad
Optic	Cylinder Lens			
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)	Ø16 x 65			mm
Weight				g



Outline Dimensions

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All Dimensions in mm

Electrical Connection

Connector plug



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.

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