



## RLCW520M-5-5

- Green Diode Laser Module
- 520 nm, 5 mW
- TTL Modulation, <10 kHz
- Fixed Focus, APC
- Dimension: Ø8 x 35 mm



### Description



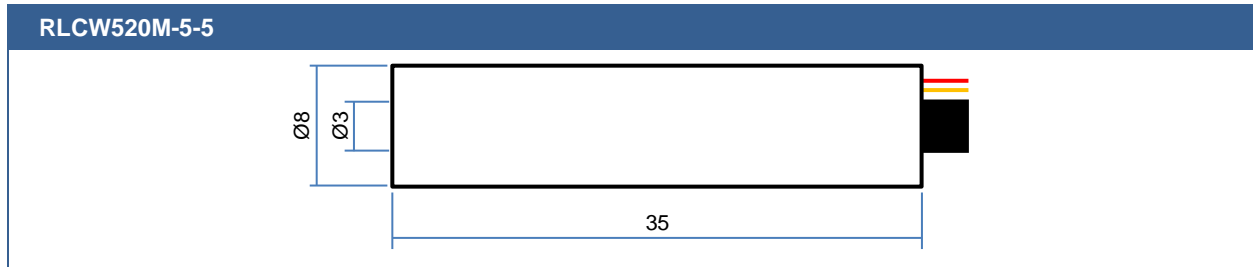
**RLCW520M** series of Diode Laser Modules has been designed with emphasis on **superior beam quality**, and **reliable operation**. The modules body is made of black anodized aluminum, enclosing laser diode, lens, and driving electronics. RLCW520M series features a **fixed glass lens optic** and a **wide operating temperature range**. The **incorporated 5 VDC driver** circuit additional supports **TTL modulation up to 10 kHz**.

### 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	3.5	5.0	7.0	V
Operating Current		120		mA
Modulation, TTL			10	kHz
Control		APC		
Standard Operating Distance		10-30		m
Focus		Fixed		
Beam Character		Elliptical		
Elliptic Proportion		1:1.2		
Output Aperture		Ø3		mm
Divergence		0.8		mrad
Optic		Aspheric Glass Lens		
Operating Temperature	-10		+60	°C
Storage Temperature	-30		+70	°C
Life Time	6000			hours
Material		black anodized aluminum		
Electrical Connection		connector plug and wires		
Dimension (Dia. x W)		Ø8 x 35		mm
Weight		15		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.