



RLCW520C-5-5

- Green Diode Laser Module
- 520 nm, 5 mW
- Cross Line, 90°
- Fixed Focus, APC
- Dimension: Ø20 x 80 mm



Description



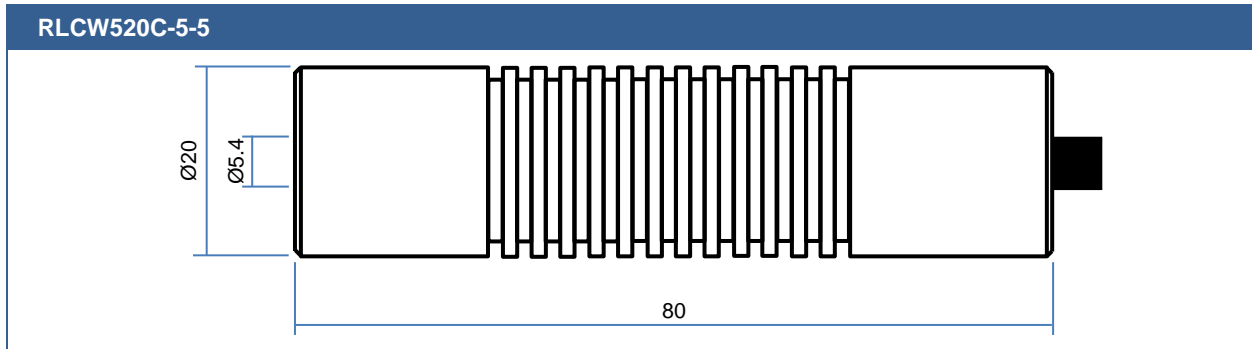
RLCW520C series of Diode Laser Modules has been designed with emphasis on **superior beam quality**, and **reliable operation**. The modules body is made of black anodized aluminum, enclosing laser diode, lens, and driving electronics. RLCW520C series features a **90° cross line optic**, a **wide operating 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 | 4.5 | | 5.5 | mW |
| Output Power Stability (-10 ... +50°C) | | | ±3 | % |
| Laser Class | | 3R | | |
| Operating Voltage, DC | 2.7 | 5.0 | 6.0 | V |
| Operating Current | | | 80 | mA |
| Control | | APC | | |
| Standard Operating Distance | | 10 | | m |
| Focus | | Fixed | | |
| Beam Character | | Cross Line | | |
| Line Thickness (at 5 m) | | | 2.5 | mm |
| Curvature (at 5 m) | | | 0.5 | Mm |
| Verticality | -0.5 | | +0.5 | ° |
| Fan Angle | | 90 | | ° |
| Output Aperture | | Ø5.4 | | mm |
| Divergence | | 0.6 | | mrad |
| Optic | | Aspheric Glass Lens | | |
| Operating Temperature | -10 | | +60 | °C |
| Storage Temperature | -20 | | +70 | °C |
| Life Time | 6000 | | | hours |
| Material | | black anodized aluminum | | |
| Electrical Connection | | connector plug and wires | | |
| Dimension (Dia. x W) | | Ø20 x 80 | | mm |
| Weight | | 84 | | 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.