



RLDH980-200-3

- Compact Infrared Diode Laser Module
- 980 nm, 200 mW CW
- Glass Lens, focusable
- Dimension Ø22 x 65 mm



Description

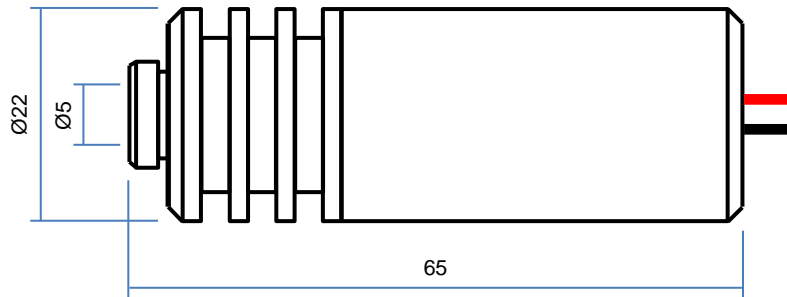
RLDH980 series of Diode Laser Modules has been designed with emphasis on **superior beam quality**, high power stability, and **reliable operation**. The modules body is made of black anodized aluminum, enclosing laser diode, lens, and driving electronics. RLDH980 features a **focusable glass lens optic** with a locking mechanism and an **incorporated 3 VDC driver** circuit.

Specifications

| Parameter | Values | | | Unit |
|-----------------------------|-------------------------------|------|------|------|
| | Min. | Typ. | Max. | |
| Emission Wavelength | | 980 | | nm |
| Output Power | | 200 | | mW |
| Laser Class | | 3B | | |
| Output Aperture | | Ø5 | | mm |
| Beam Divergence | | 1.0 | | mrad |
| Standard Operating Distance | 10 m, focus adjustable | | | m |
| Beam Size | 3x400 mm @ 10 m | | | mm |
| Beam Character | Elliptical | | | |
| Elliptic Proportion | > 1:2.5 | | | |
| Operating Voltage | | 3.0 | | V |
| Operating Current | | | 450 | mA |
| Operating Temperature | -10 | | +40 | °C |
| Storage Temperature | -40 | | +80 | °C |
| Material Body | Aluminum, black anodized | | | |
| Material Lens | Glass, both sides AR coated | | | |
| Dimensions | Ø22 x 65 | | | mm |
| Leads | 0.25 mm ² x 100 mm | | | mm |
| MTTF | 8000 | | | h |



Drawing



Dimensions in mm

Electrical Connection

| Lead | Description |
|-------|-------------|
| Red | Anode |
| Black | Cathode |



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 ultra violet light which can be **hazardous to the human eye**. This module 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.



This product is comply with 21 CFR Part 1040.10