



## RLDG650-1-3

- Red Diode Laser Module
- 650 nm, 1 mW
- Focus Fixed
- Small Size
- Dimension:  $\varnothing 7 \times 14$  mm



### Description



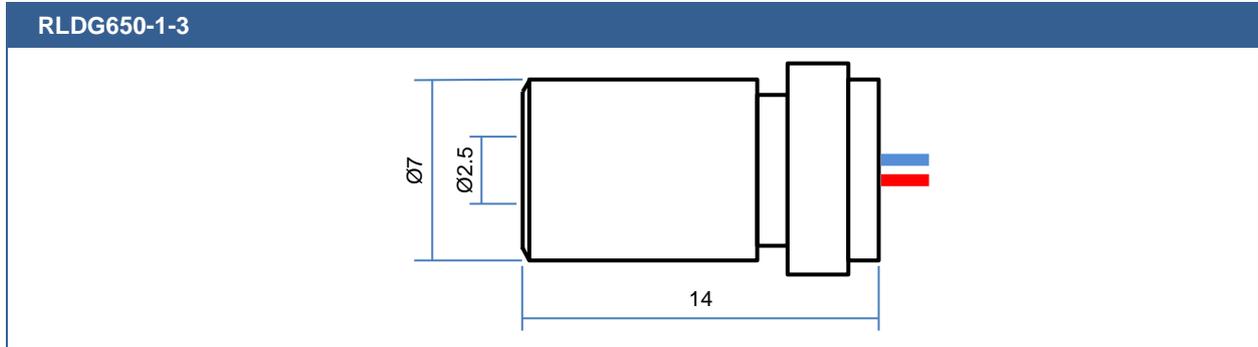
**RLDG650** series of **small size** Diode Laser Modules has been designed with emphasis on **superior beam quality**, and **reliable operation**. The modules body is made of black anodized aluminum, enclosing laser diode, plastic lens, and driving electronics. The supply voltage is specified with **3 VDC**.

### Specifications

Parameter	Min.	Values Typ.	Max.	Unit
Peak Wavelength		650		nm
Optical Output Power		1		mW
Laser Class		2		
Operating Voltage		DC 3		V
Operating Current			50	mA
Control		APC		
Focus		Fixed		
Beam Character		Elliptical		
Elliptic Proportion		1:1.7		
Output Aperture		$\varnothing 2.5$		mm
Divergence		0.8		mrاد
Optic		plastic lens		
Operating Temperature	-10		+40	$^{\circ}\text{C}$
Storage Temperature	-40		+80	$^{\circ}\text{C}$
Life Time	8000			hours
Material		black anodized aluminum		
Electrical Connection		2 wires		
Dimension (Dia. x W)		$\varnothing 7 \times 14$		mm
Weight		2		g



## Outline Dimensions



All Dimensions in mm

## Electrical Connection

Lead	Description
Red	+3 VDC
Black	GND

Connector plug on request

## 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 2 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.