



RLDB808-7-3-FA

- Infrared Diode Laser Module
- 808 nm, 7 mW
- Single Mode
- Circular Beam Shape, Fixed Focus
- Dimension: Ø14 x 45 mm



Description



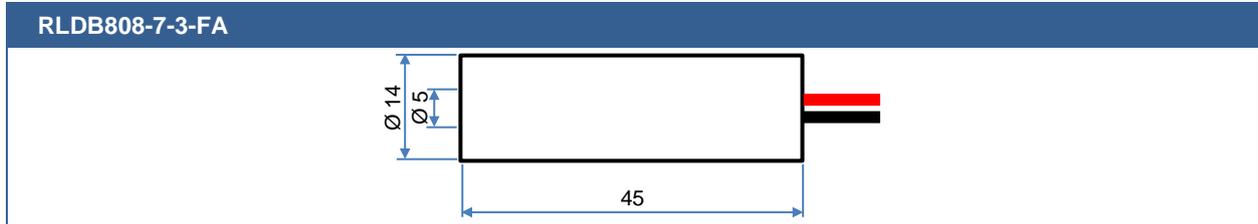
RLDB808-7-3-FA is a diode laser module, featuring high collimation and near circular beam shape. The modules body is made of black anodized aluminum, enclosing laser diode, lens and driving electronics. The supply voltage is specified with 3 V DC.

Specifications

Parameter	Min.	Values Typ.	Max.	Unit
Peak Wavelength		808		nm
Optical Output Power		7		mW
Laser Class		3B		
Operating Voltage		DC 3		V
Operating Current			180	mA
Control		APC		
Standard Operating Distance		100		m
Focus		fixed		
Beam Character		roundish		
Elliptic Proportion		1:1.04		
Output Aperture		Ø5		mm
Divergence		0.28		mrad
Beam Size	50 m distance	16.1 x 16.8		mm
	100 m distance	32.2 x 33.6		mm
Optic	Glass lens, both sides AR coated			
Operating Temperature	-10		+40	°C
Storage Temperature	-40		+80	°C
Life Time	8000			hours
Material	black anodized aluminum			
Electrical Connection	2 wires or connector plug			
Dimension (Dia. x W)	Ø14 x 45			mm
Weight	15			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 infrared light which can be **hazardous to the human eye and skin**. It 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.

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