RLDE635-10-3

- Red Diode Laser Module
- 635 nm, 10 mW
- Focus Adjustable
- Dimension: Ø14 x 45 mm



Rev. 01/2021

Description

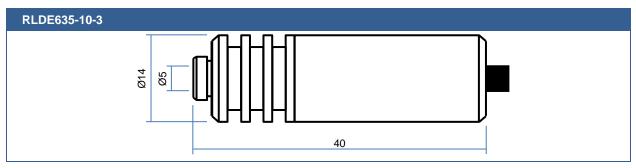
RLDE635 series of Diode Laser Modules have been designed with emphasis on *superior beam quality*, and *reliable operation*. The modules body is made of black anodized aluminum, enclosing laser diode, lens, and driving electronics. RLDE635 series features a *focusable glass lens optic* with a locking mechanism. The supply voltage is specified as *3 VDC*.

Specifications

Parameter		Min.	Values Typ.	Max.	Unit
Peak Wavelength			635		nm
Optical Output Power			10		mW
Laser Class			3B		
Operating Voltage			DC 3		V
Operating Current				80	mA
Control			APC		
Standard Operating Distance			10		m
Focus		adjustable			
Beam Character			elliptical		
Elliptic Proportion			1:1.7		
Beam size	@ 1 m		1		
	@ 20 m		6 x 11		mm
	@ 40 m		12 x 20		
Output Aperture			Ø5		mm
Divergence			0.6		mrad
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		connector plug			
Dimension (Dia. x W)		Ø14 x 45			mm
Weight					g

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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 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.

The above specifications are for reference purpose only and subjected to change without prior notice

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