



## C2021-E1

- Infrared Diode Laser Module
- 980 nm, 90-120 mW
- Focus Adjustable
- Dimension: Ø16 x 50 mm



### Description

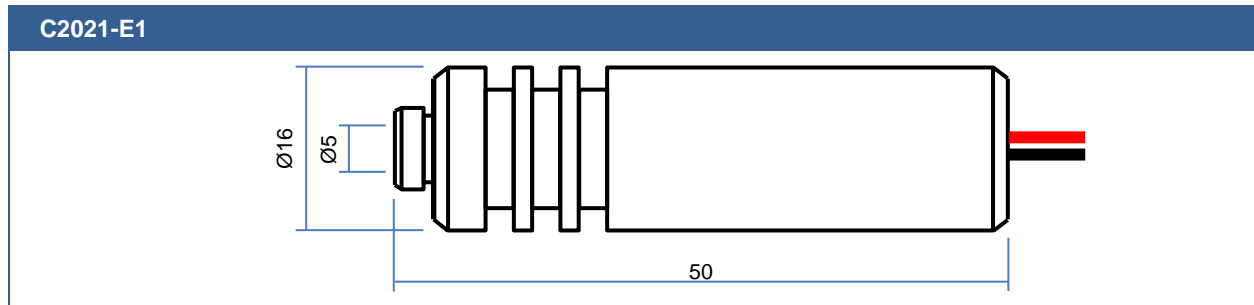
**C2021** series of Diode Laser Modules has been designed with emphasis on **superior beam quality**, and **reliable operation**. The modules body is made of black anodized aluminum, enclosing laser diode, lens, and driving electronics. C2021 series features a **focusable glass lens optic** with a locking mechanism. The supply voltage is specified with **3 VDC**.

### Specifications

Parameter	Min.	Values Typ.	Max.	Unit
Peak Wavelength		980		nm
Optical Output Power	90		120	mW
Laser Class		3B		
Operating Voltage		DC 3		V
Operating Current			300	mA
Control		APC		
Standard Operating Distance				m
Focus		Adjustable		
Beam Character		Elliptical		
Elliptic Proportion		1:2.5		
Output Aperture		Ø5		mm
Divergence		1.0		mrاد
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		
Dimension (Dia. x W)		Ø16 x 50		mm
Weight		22		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 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.