v 1.0 25.02.2015

# RLDH650M-4-5

- Red Diode Laser Module
- 650 nm, 4 mW
- TTL Modulation, <500 kHz
- Focus Adjustable
- Dimension: Ø12 x 34 mm



# Description



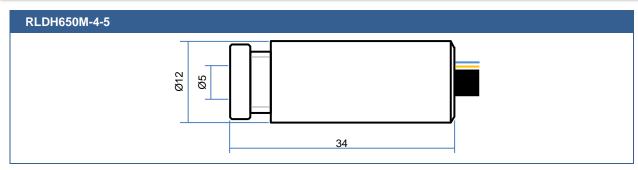
**RLDH650M** series of Diode Laser Modules has been designed with emphasis on *superior beam quality*, and *reliable operation*. The modules body is made of black anodized aluminum, enclosing laser diode, lens, and driving electronics. RLH650M series features a *focusable glass lens optic* with a locking mechanism. The *incorporated 5 VDC driver* circuit additional supports **TTL modulation up to 500 kHz**.

## **Specifications**

Parameter	Min.	Values Typ.	Max.	Unit
Peak Wavelength		635		nm
Optical Output Power		4		mW
Laser Class		3R		
Operating Voltage		DC 5		V
Operating Current			50	mA
Modulation, TTL			500	kHz
Control		APC		
Standard Operating Distance		10		m
Focus	Adjustable			
Beam Character		Elliptical		
Elliptic Proportion		1:2.5		
Output Aperture		Ø5		mm
Divergence		1.5		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 and wires			
Dimension (Dia. x W)	Ø12 x 34			mm
Weight		26		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 3R 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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