



# ROITHNER LASERTECHNIK GmbH

WIEDNER HAUPTSTRASSE 76  
TEL. +43 1 586 52 43 -O. FAX. -44

1040 VIENNA AUSTRIA  
OFFICE@ROITHNER-LASER.COM



## CW635-05

- RED Laser Diode Module
- 635 nm, <5 mW
- Focusable Acryl Lens
- Automatic Power Control
- 3 VDC Input Voltage



### Description

**CW635-05** is a compact size **focusable** laser diode module with a typical emission wavelength of **635 nm**, and an optical output power of **<5 mW**. It features automatic power control (**APC**) driving electronics for stable operation, and 3 VDC supply voltage. **CW635-05** comes equipped with a coaxial power connector. A matching **power supply**, **heat sink**, and suitable **laser module holder** is optionally available for quick setup and convenient operation (see page 3 for details).

### Maximum Ratings

Parameter	Values		Unit
	Min.	Max.	
Operating temperature	- 10	+ 50	°C
Storage temperature	- 40	+ 70	°C



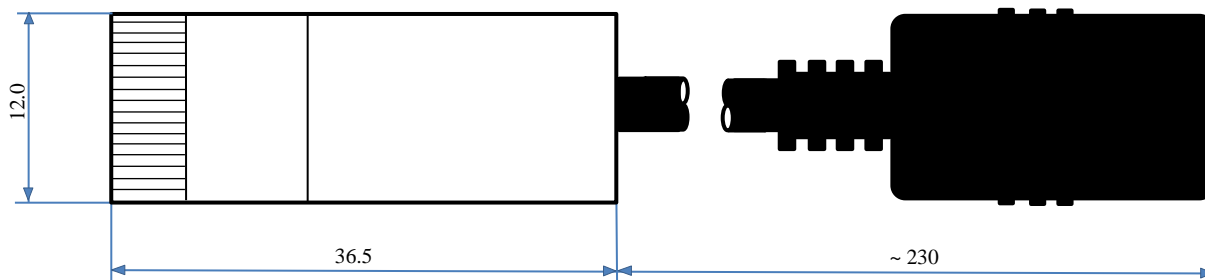
### Electro-Optical Characteristics (T<sub>CASE</sub> = 25°C)

Parameter	Values			Unit
	Min.	Typ.	Max.	
Peak Wavelength		635		nm
<b>Radiated Power</b>			<b>5</b>	<b>mW</b>
Beam diameter at aperture		4		mm
Beam shape	elliptical			
Beam divergence		1.0		mrad
<b>Supply Voltage</b>		<b>3</b>	<b>3.3</b>	<b>VDC</b>
Material body	Brass, Nickel plated (+VDC)			
Material lens	acryl			
Dimensions	Ø 12 x 36.5			mm
Connector	IEC 60130-10, Type A, 5.5/2.1 mm			





## Outline Dimensions



all dimensions in mm

## Electrical Connection

IEC 60130-10, Type A, 5.5/2.1 mm



module housing on +VDC potential

## Precautions

### Static Electricity:

Precautions against electrostatic discharge (ESD) must be taken when handling or operating the module. Surge voltage or electrostatic discharge can result in complete failure of the laser diode.

### Heat Sinking:

In order to maintain lifetime and stability of the laser module, it is essential to provide efficient heat management.

### Safety:

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.





## Accessories

### Heat Sink

#### SQ50x34

- Al, black anodized
- Clamping mechanism
- 50 x 50 x 34 mm
- 114 g



### Holder

#### RLM-1250

- Steel, black anodized
- Height, reach, tilt adjustable
- Fixture 360° turnable
- Max. diameter: 12.5 mm
- 69 x 67 mm
- 152 g



### Power supply

#### LPS31C

- 100-240VAC
- AC Europlug (CEE7/16)
- IEC 60130-10 Type A con.
- Output 3 VDC, max 1 A
- CE certified
- 30 x 80 x 75 mm
- 80 g



© All Rights Reserved

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