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CW405-01F

- **Violet Laser Diode Module**
- **405 nm, <1 mW**
- **Automatic Power Control (APC)**
- **Focusable Acryl Lens**
- **2 – 5 VDC Input Voltage**

Description

CW405-01F is a compact size **focusable** violet laser diode module with a typical emission wavelength of **405 nm**, and an optical output power of **<1 mW**. It features **automatic power control (APC)** driving electronics, and wide **input voltage range of 2 - 5 VDC**. **CW405-01F** can be further customized with different connector or as leads only variant.

Maximum Ratings*

Parameter	Values Min.	Values Max.	Unit
Operating Temperature*	- 10	+ 50	°C
Storage Temperature	- 40	+ 80	°C

* operating close to or outside these temperatures may damage the device

Electro-Optical Characteristics (T_{CASE} = 25°C)

Parameter		Values Min.	Values Typ.	Values Max.	Unit
Peak Wavelength			405		nm
Radiated Power				**1**	**mW**
Beam diameter at aperture			4		mm
Beam shape			elliptical		
Supply Voltage		**2**		**5**	**VDC**
Material body			Aluminium, black anodized (+VDC)		
Material lens			Acryl		
Dimensions			Ø 12 x 37		mm
Connector	Type		IEC 60130-10, Type A, 5.5/2.1 mm		
	Length		~ 230		mm

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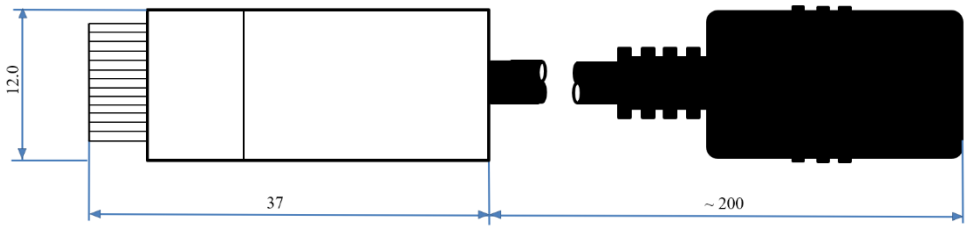
Outline / Connector

Module



all dimensions in mm

Connector

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

module housing on +VDC potential

Optional 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**

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 module.

Heat Sinking:

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

Safety:

This laser module emits highly concentrated invisible light which can be **hazardous to the human eye and skin**. It is classified as **CLASS 2 laser product** according to **IEC 60825-1** and **21 CFR Part 1040.10 Safety Standards**.