



# LD-808-30-PM-HHL



## DEVICE

## 808 nm PM Fiber Coupled Diode Laser, 30 mW, High Heat Load (HHL) Package

## OVERVIEW

The Optilab LD-808-30-PM-HHL is a 808 nm pigtailed laser module, with HHL package. This high-efficiency and high-stability product is featured in a TEC cooler and internal photodiode. The product has 30 mW output power and 5  $\mu$  m PM fiber. This laser can be used in medical laser treatment and biotechnology.

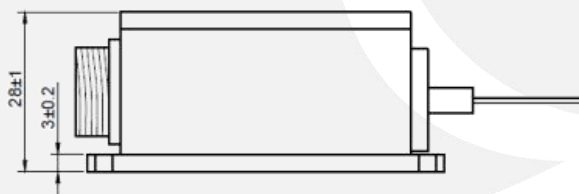
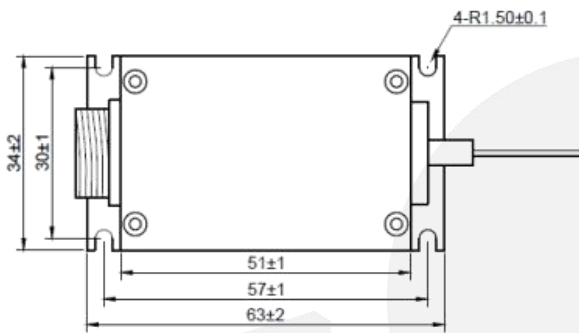
## FEATURES

- 808 nm wavelength
- 30 mW output power
- 5  $\mu$  m PM fiber
- Built-in TEC cooling
- Internal photodiode
- HHL Package

## USE IN

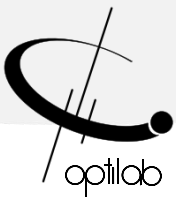
- Medical laser treatment
- Quantum photonics
- Biotechnology
- Optical pumping

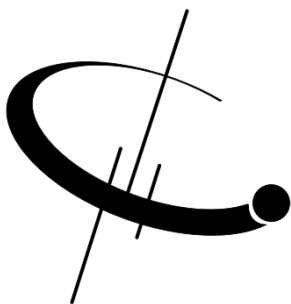
## MECHANICAL DRAWING



PIN	Description
1	LD (+) & PD (-)
2	LD (-)
3	TEC (-)
4	TEC (+)
5	R(t)
6	R(t)
7	NC
8	PD (+)

Unit: mm





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## SPECIFICATIONS

### Optical Data

Laser Type	Fabry-Perot
Output Power	30 mW typ.
Center Wavelength	808±10 nm
Spectral Width (FWHM)	2 nm typ.

### Electrical Data

Threshold Current	30 mA typ.; 60 mA max.
Operating Current	140 mA typ.; 160 mA max.
Operating Voltage	2.2 V typ.; 3.0 V max.
Reverse Voltage	2.0 V
Polarization Extinction Ratio	13 dB min.; 15 dB typ.
TEC Current	3.5 A max.
TEC Voltage	7.0 V max.
Thermistor	10 K

### Fiber Data

Fiber Type	PM Fiber
Fiber Core	5 μm
Total Fiber Length	1 m (Standard)
Connector	FC/APC or Others
Complete Alignment	Slow Axis

### Others

Operating Temperature	-10 °C to +50 °C
Storage Temperature	-40 °C to +85 °C
Operating Humidity	15% to 75%

