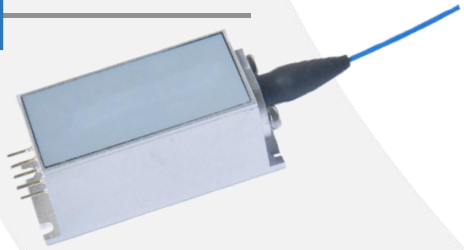
LD-830-80-PM-CM



DEVICE

830 nm PM Fiber Coupled Diode Laser, 80 mW, 8-Pin Compact Module

OVERVIEW

The Optilab LD-830-80-PM-CM is a 830 nm pigtailed laser module, with 8-pin package. This high-efficiency and high-stability product is featured in a TEC cooler and internal photodiode. The product has 80 mW output power and 5 μm PM fiber. This laser can be used in medical laser treatment and biotechnology.

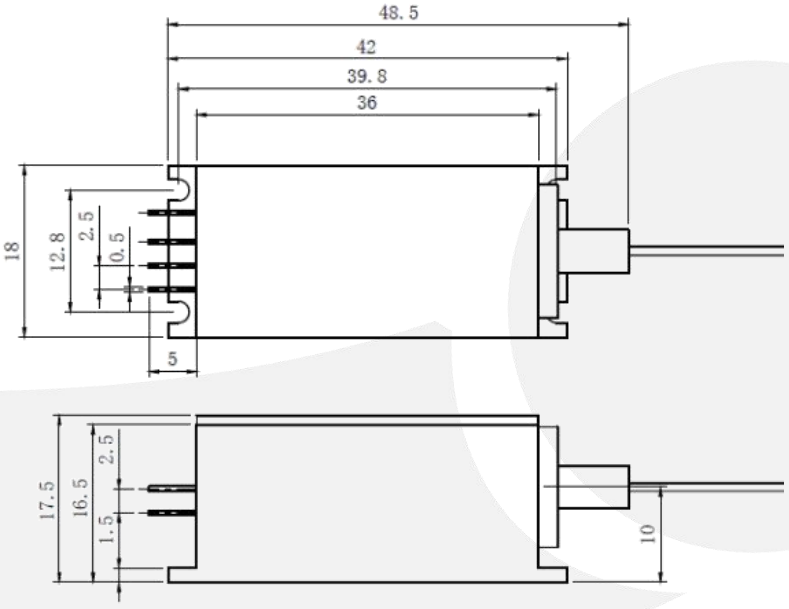
FEATURES

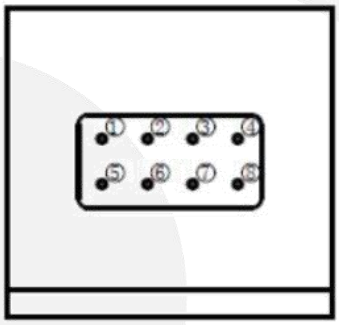
- 830 nm wavelength
- 80 mW output power
- 5 μm PM fiber
- Built-in TEC cooling
- Built-in photodiode
- 8-Pin package

USE IN

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

MECHANICAL DRAWING





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

Unit: mm

LD-830-80-PM-CM

SPECIFICATIONS

Optical Data	Laser Type	Fabry-Perot
	Output Power	80 mW typ.
	Center Wavelength	830±15 nm
	Spectral Width (FWHM)	2 nm typ.
Electrical Data	Threshold Current	35 mA typ.; 60 mA max.
	Operating Current	240 mA typ.; 260 mA max.
	Operating Voltage	2.5 V typ.; 3.0 V max.
	Reverse Voltage	2.0 V
	Polarization Extinction Ratio	13 dB min.; 15 dB typ.
	TEC Current	1.3 A max.
	TEC Voltage	4.0 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 +60 °C
	Storage Temperature	-40 °C to +85 °C
	Operating Humidity	15% to 75%