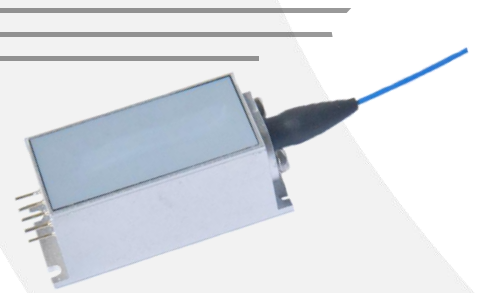




LD-785-40-PM-CM



DEVICE

785 nm PM Fiber Coupled Diode Laser, 40 mW, 8-Pin Compact Module

OVERVIEW

The Optilab LD-785-40-PM-CM is a 785 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 40 mW output power and 5 μ m PM fiber. This laser can be used in medical laser treatment and biotechnology.

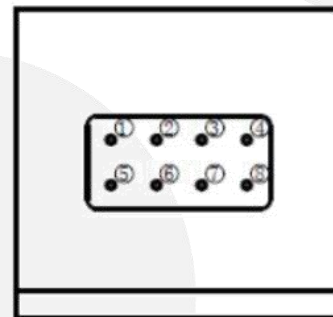
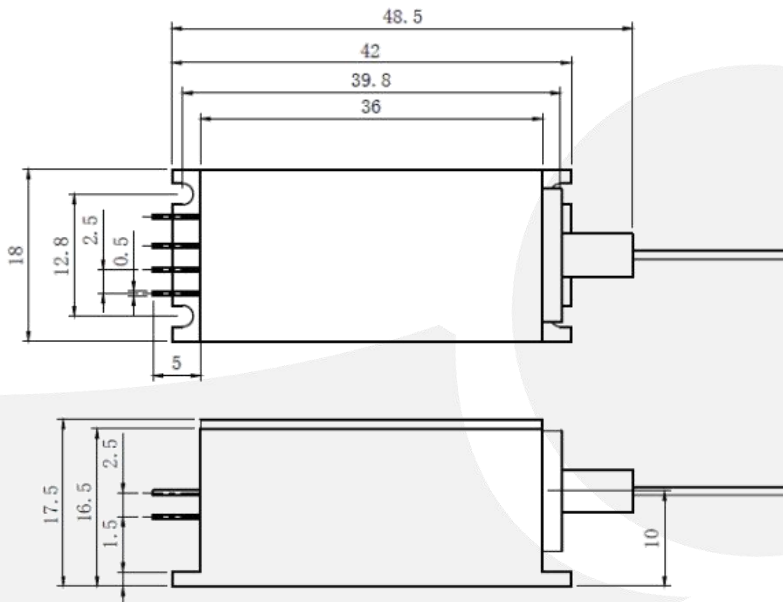
FEATURES

- 785 nm wavelength
- 40 mW output power
- 5 μ m PM fiber
- Built-in TEC cooling
- Built-in photodiode
- 8-Pin package

USE IN

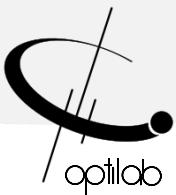
- Medical laser treatment
- Quantum photonics
- Biotechnology
- Optical pumping

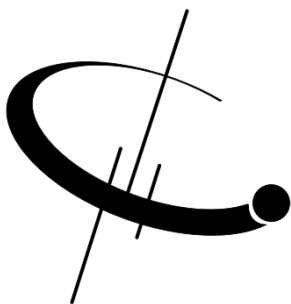
MECHANICAL DRAWING



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

Unit: mm





LD-785-40-PM-CM

SPECIFICATIONS

Optical Data

Laser Type	Fabry-Perot
Output Power	40 mW typ.
Center Wavelength	785±5 nm
Spectral Width (FWHM)	2 nm typ.

Electrical Data

Threshold Current	35 mA typ.; 50 mA max.
Operating Current	120 mA typ.; 140 mA max.
Operating Voltage	2.0 V typ.; 2.5 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%

