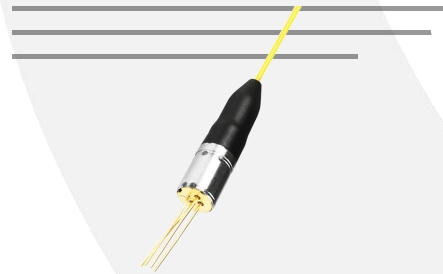




LD-785-10-CX



DEVICE

785 nm LD, 10 mW, Coaxial Package, SM Fiber

OVERVIEW

The Optilab LD-785-10-CX is a 785 nm laser diode, packaged in compact coaxial housing with single mode fiber pigtail. It features a built-in monitor PD, 10 mW output power and offers excellent stability and reliability. This product can be used for optical sensing, test and measurement equipment, laser range finder and medical treatment.

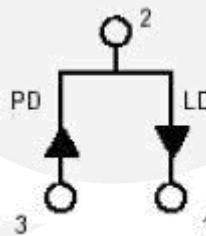
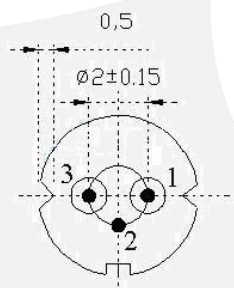
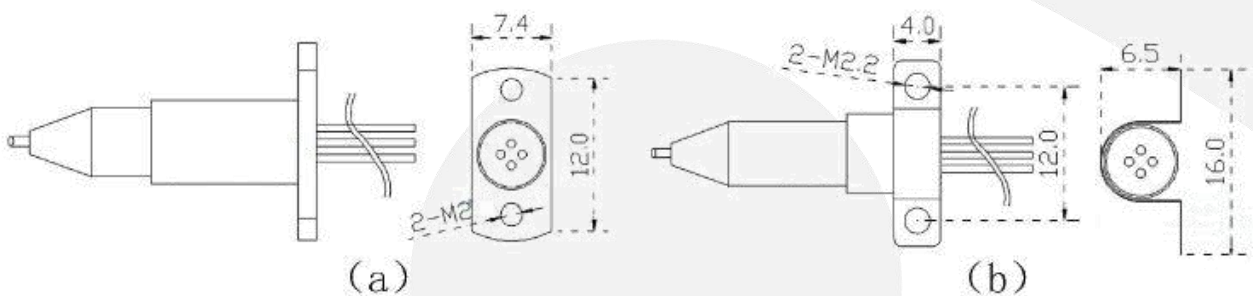
FEATURES

- 785 nm wavelength
- 10 mW output power
- Spectral linewidth $\Delta\lambda$ 3.0 nm
- 9.0 μm fiber core diameter
- 0.12 NA
- MQW FP-LD
- Single mode
- Built-in monitor PD
- Low threshold
- Low operate current

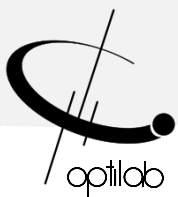
USE IN

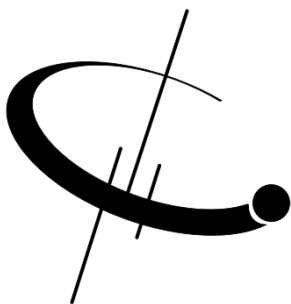
- Optical sensing
- Test and measurement equipment
- Laser range finder
- Medical treatment

MECHANICAL DRAWING



PIN	Description
1	LD Cathode
2	LD anode, PD cathode, Case
3	PD anode





LD-785-10-CX

SPECIFICATIONS

Optical Data

Laser Type	MQW Fabry-Perot LD
CW-Output Power	10 mW typ.
Center Wavelength	785±5 nm
Spectral Width	3.0 nm typ.
Wavelength Shift with Temperature	0.3 nm/°C typ.

Electrical Data

Operating Current	40 mA typ.; 60 mA max.
Threshold Current	10 mA typ.; 30 mA max.
Operating Voltage	2.0 V typ.; 2.4 V max.
LD Reverse Voltage	2.0 V max.
Monitor Current	2 mA typ.; 1 mA min.; 3.5 mA max.

Fiber Data

Core Diameter	9.0 μm
Numerical Aperture	0.12 nm
Total Fiber Length	1 m (Standard)
Fiber Type	Single Mode
Connector	FC/APC(Standard) or ST/SMA905

Others

Operating Case Temperature	-10 °C to +60 °C
Storage Temperature	-40 °C to +85 °C
Operating Humidity	15% to 75%
Package	Coaxial Housing
Material	GaAs

