

DEVICE

# 1310 nm Coaxial Pulse Laser Diode, InGaAsP Strained, 100mW Peak Power

OVERVIEW

The Optilab LD-CX-1310P is a high-power pulse laser diode that has been designed as a light source for pulsed fiber lasers and can be used for Optical Time Domain Reflectometer (OTDR) & other pulse application. It feature high peak power and excellent reliability. House inside a coaxial fiber package, LD-CX-1310P is extremely compact. Contact Optilab for more information.

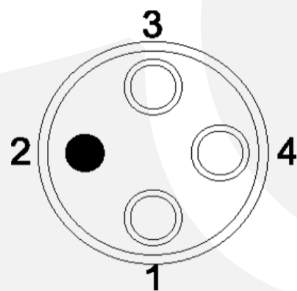
FEATURES

- Wavelength Range : 1310 +/- 10 nm
- High Peak Output power
- 100mW @ 400 mA
- Multi-Mode Fabry Perot
- Built in isolator

USE IN

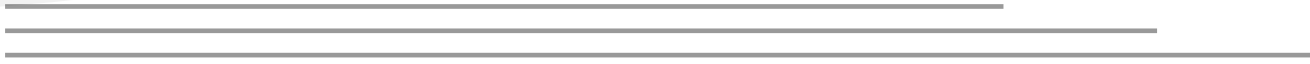
- LiDAR
- Remote Sensing
- OTDR
- Optical spectroscopy

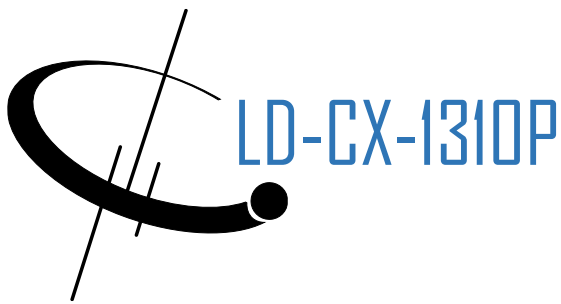
PIN OUT DIAGRAM



Type 2 Pinout

Pin 1	PD(-), LD(+)
Pin 2	Case
Pin 3	LD(-)
Pin 4	PD(+)





## SPECIFICATIONS

### GENERAL

Wavelength Range	1310 ± 10 nm.
Peak Optical Output Power	100 mW typ @ 1% duty cycle.
Drive Current	400 mA @ 100 mW
Forward Voltage	2.5 V typ.
Threshold Current	20 mA typ.
Rise Time	1 ns typ (Highly depends on driving circuit)
Fall Time	1 ns typ (Highly depends on driving circuit)

### MECHANICAL

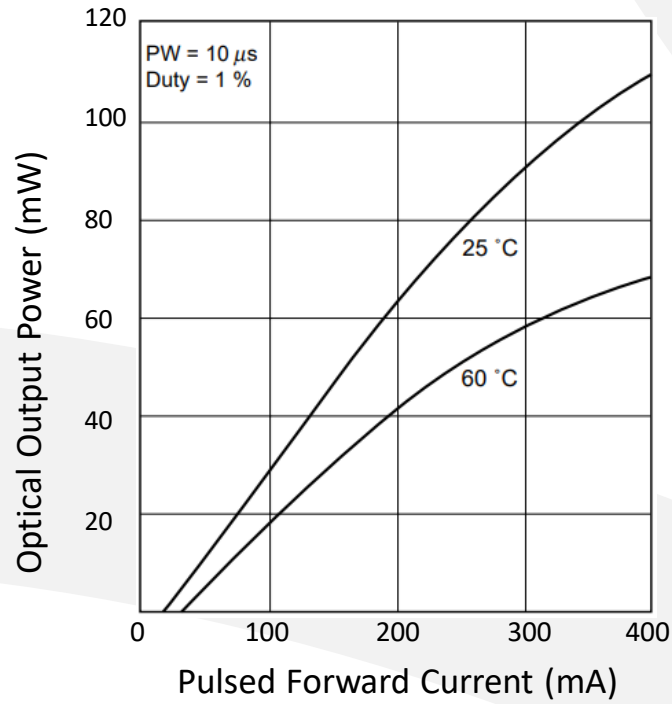
Operating Temperature	-20°C to +60°C
Storage Temperature	-40°C to +70°C
Operating Humidity	95% @ < 30°C
Optical Fiber Type	SMF
Optical Connector	FC/APC, others available

### ABSOLUTE MAXIMUM RATINGS

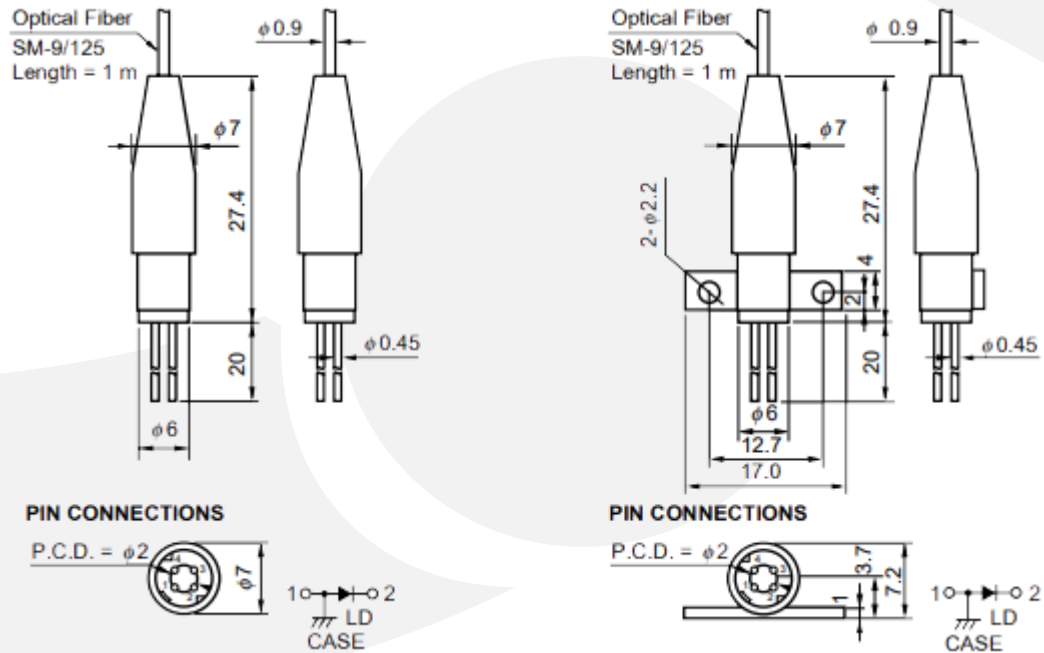
Pulsed Forward Current	600 mA
Reverse Voltage	2 V
Cooler Current	1.3 A
Cooler Voltage	3.5 V



## TEST DATA



## MECHANICAL DRAWING



# LD-CX-1310P

## RELATED MODULES

- NPL-CX-M



The Optilab NPL-CX-M is Nanosecond Pulsed CWDM Laser Module with integrated LD-CX-1310P. Please see Table 1 for available wavelengths.

- NPL-P



## Phoenix Series, Portable

The Optilab NPL-P series is a Nanosecond Pulsed Laser Portable Photonics Instrument (PPI) series in handheld form factor with touchscreen control and intuitive GUI.