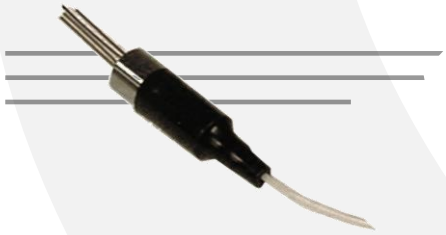
LD-1310P-CX



DEVICE

1310 nm Coaxial Pulse Laser Diode, InGaAsP Strained, Up to 100mW

OVERVIEW

The Optilab LD-1310P-CX is a high-power pulse laser diode has been designed as a light source for pulsed fiber lasers and CW applications. It is mostly utilized in combination with an external optical modulator, such as a Mach-Zehnder Interferometer (MZI) modulator. It output powers up to 100mW. Wavelength stabilized high power single mode laser module has been designed as a CW light source for narrow bandwidth fiber laser and direct frequency conversion applications. Contact Optilab for more information.

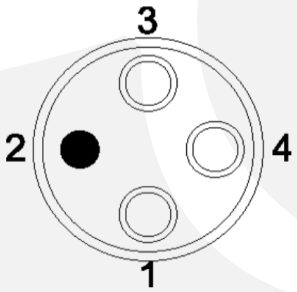
FEATURES

- Center wavelength: 1310 +/- 10 nm
- High Output power, up to 100mW at IFP = 400mA
- Pulse Width : 10 µs
- Built in isolator
- Built in TEC for wavelength tuning

USE IN

- LiDAR
- Fiber laser systems
- Free space communications
- Frequency conversion
- Optical spectroscopy

PIN OUT DIAGRAM



Type 2 Pinout

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

LD-1310P-CX

SPECIFICATIONS

GENERAL

Center Wavelength Range	1310 ± 5 nm typ.
Wavelength Tuning Range	± 1 nm
Peak Power	100 mW typ @ 1% duty cucle.
Forward Voltage	2.5 V typ.
Threshold Current	20 mA typ.
Pulse Width	10 µs typ.
Rise Time	1 ns max
Fall Time	1 ns max

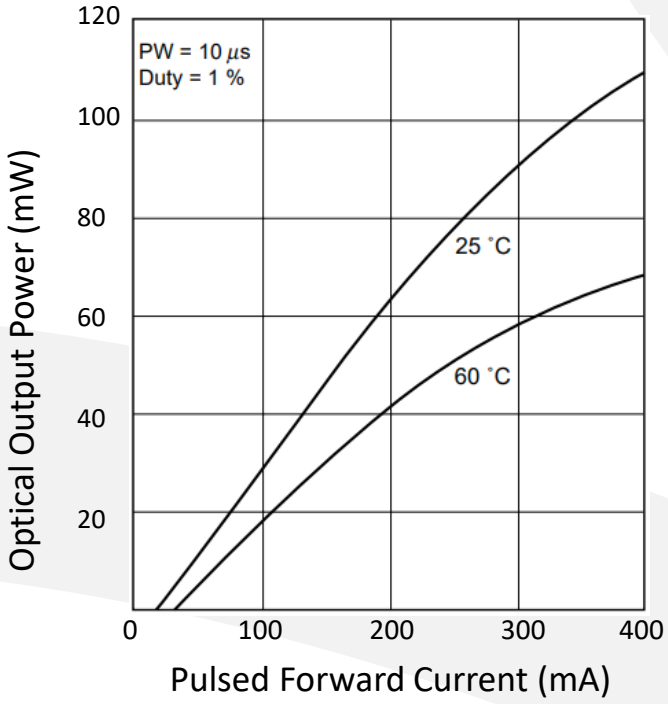
MECHANICAL

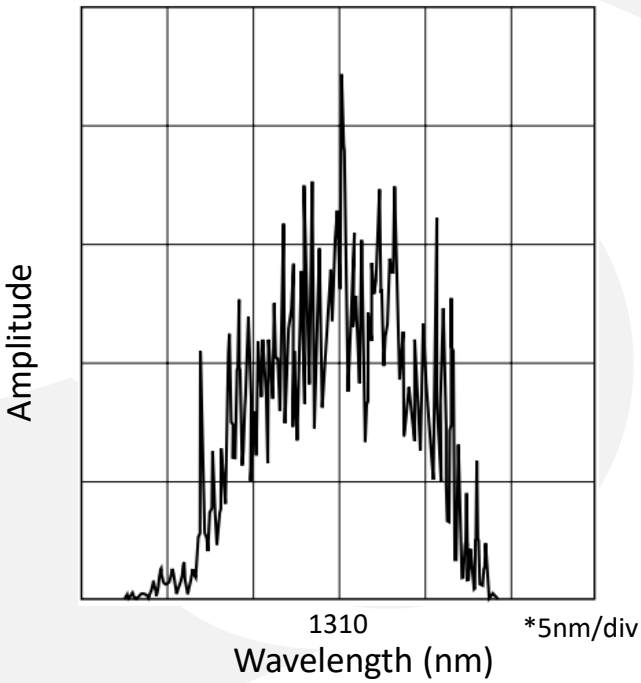
Operating Temperature	-20°C to +60°C
Storage Temperature	-40°C to +70°C
Operating Humidity	95% @ < 30°C
Optical Fiber Type	SMF
Optical Connector	FC/APC, others available

ABSOLUTE MAXIMUM RATINGS

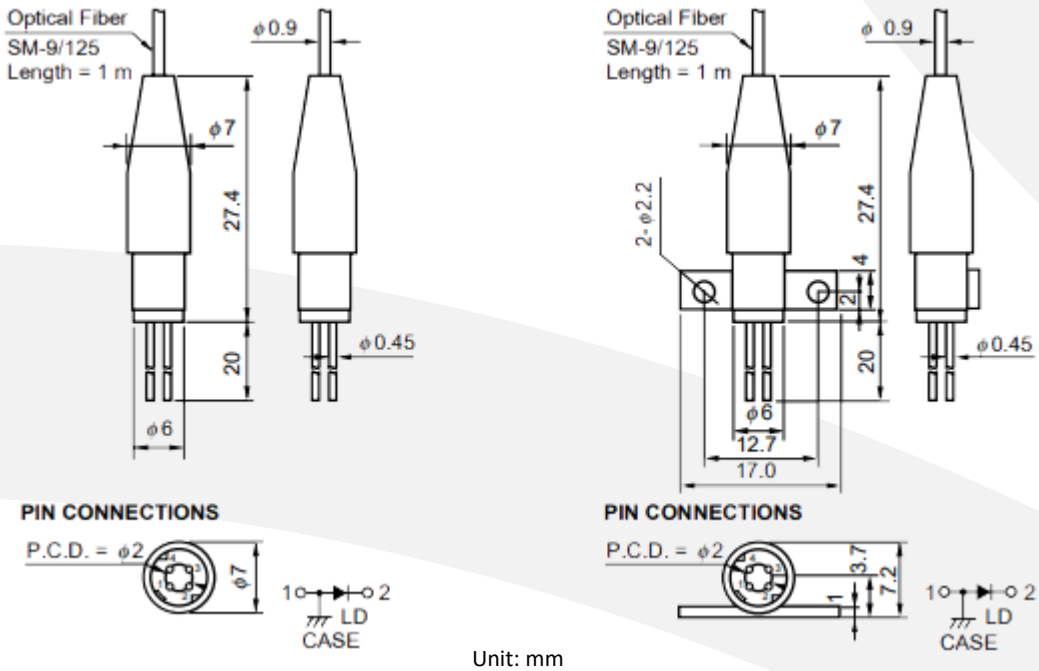
Pulsed Forward Current	600 mA
Reverse Voltage	2 V
Cooler Current	1.3 A
Cooler Voltage	3.5 V

TEST DATA


PW = 10 μs
Duty = 1 %
25 °C
60 °C
Optical Output Power (mW)
120
100
80
60
40
20
0
100
200
300
400
Pulsed Forward Current (mA)


Amplitude
1310
*5nm/div
Wavelength (nm)

MECHANICAL DRAWING



Unit: mm