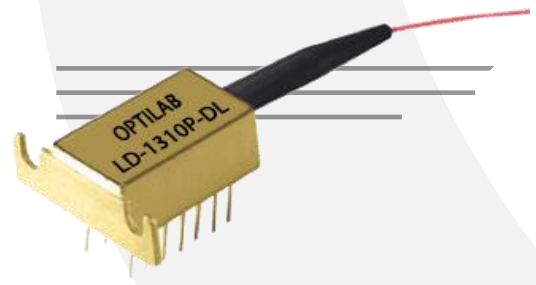


LD-1310P-DL



DEVICE **1310 nm Pulse Laser Diode, InGaAs Strained, Up to 150mW**

OVERVIEW

The Optilab LD-1310P-DL 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 150 mW. 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

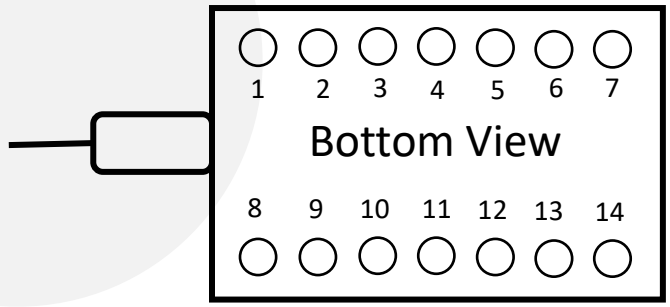
- Center wavelength: 1310 +/- 10 nm
- High Output power, up to 150 mW
- Pulse Width : 10 μ s
- Built in isolator
- Built in TEC for wavelength tuning

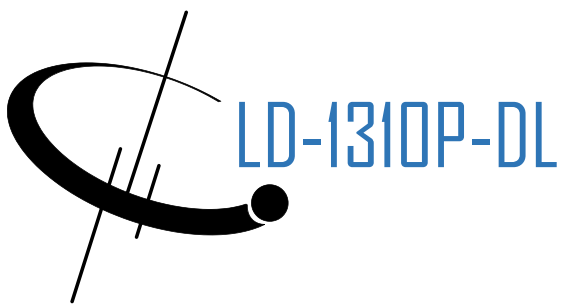
USE IN

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

PIN OUT DIAGRAM

PIN#	INFORMATION	PIN#	INFORMATION
1	Cooler Anode	8	N/C
2	N/C	9	Laser Cathode
3	N/C	10	Laser Anode, Case Ground
4	N/C	11	Thermistor
5	Laser Anode, Case Ground	12	Thermistor
6	N/C	13	N/C
7	N/C	14	Cooler Cathode





SPECIFICATIONS

GENERAL

Center Wavelength Range	1310 ± 5 nm typ.
Wavelength Tuning Range	± 1 nm
Peak Power	150 mW typ @ 1% duty cycle.
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

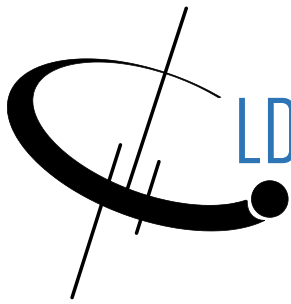
MECHANICAL

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

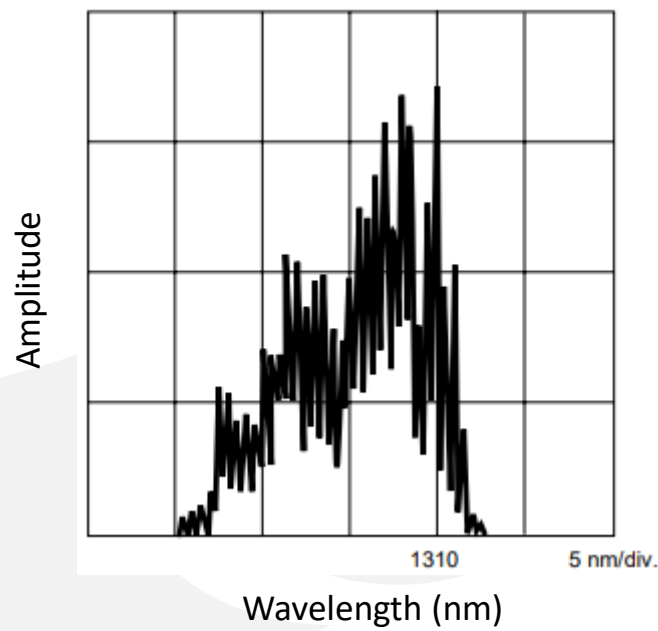
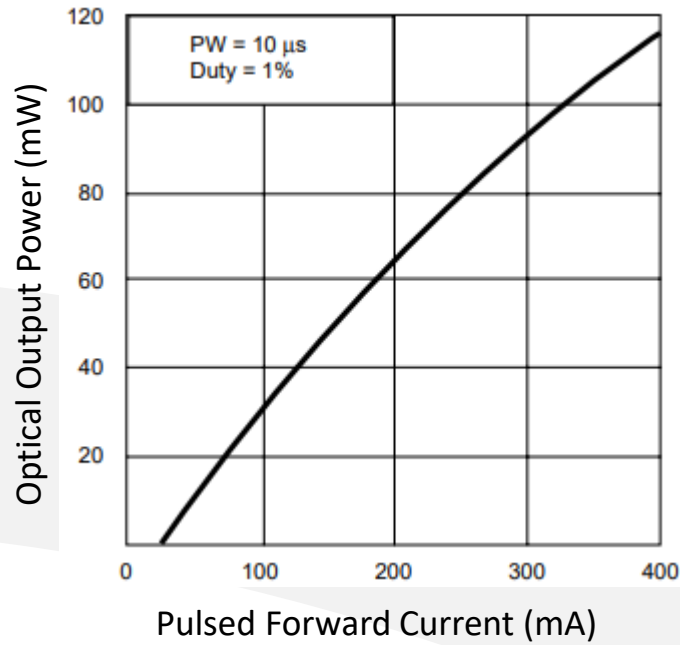
Pulsed Forward Current	600 mA
Reverse Voltage	2 V
Cooler Current	1.3 A
Cooler Voltage	3.5 V





LD-1310P-DL

TEST DATA



MECHANICAL DRAWING

