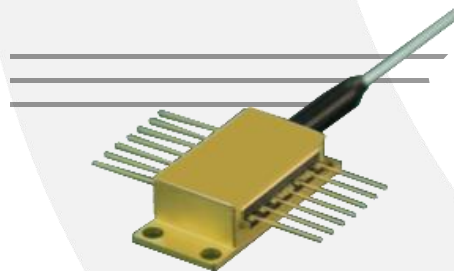


LD-FP-1550



DEVICE

1550 nm FP Laser Diode, 20 mW

OVERVIEW

The Optilab LD-FP-1550 is a high power Fabry-Perot (FP) laser diode with a 1550 nm wavelength. The LD-FP-1550 incorporates a strained multi-quantum (st-MQW) laser diode chip with thermo-electric cooler (TEC), a PIN photodiode, and PM output fiber available , in a hermetically sealed 14-pin butterfly package. This laser is widely used in the field of optical fiber communication. Contact Optilab for more information.

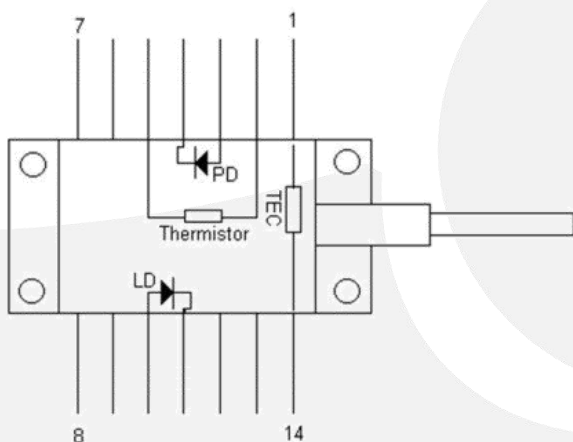
FEATURES

- Up to 20 mW Output Power
- Low Threshold Current
- High Slope Efficiency
- Hermetically Sealed 14-pin Butterfly Package
- PM Fiber Output Available
- Built in TEC, Thermistor & Monitor PD

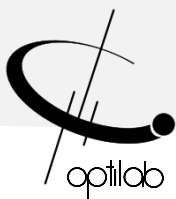
USE IN

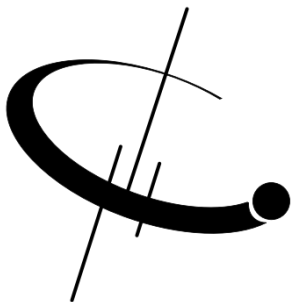
- Optical Fiber Communication
- Optical Sensors
- Optical Instrument (Light Source)
- General Laboratory and Research Use

PIN DEFINITION (N Type)



PIN	Description	PIN	Description
1	TEC (+)	14	TEC (-)
2	Thermistor	13	NC
3	PD (+)	12	NC
4	PD (-)	11	LD (-)
5	Thermistor	10	LD (+)
6	NC	9	NC
7	NC	8	NC





LD-FP-1550

SPECIFICATIONS

Technical Data

Laser Type	Fabry-Perot
Center Wavelength	1550±10 nm
Output Power	5 mW min.; 10 mW typ. 20 mW Available
Threshold Current	12 mA typ.; 18 mA max.
Operating Voltage	1.1 V typ.; 2.0 V max.
Monitor Current	0.10 mA min.; 1.0 mA max.
Photodiode Dark Current	10 nA max.
Chip Operating Temperature	25 °C
Thermistor	10 KΩ
Fiber Type	900um Loose tube, SMF; PM Fiber Available
Fiber Length	1 m (Standard)
Optical Connector	FC/APC
*Note: The test environment temperature is 25°C.	

Rated Extreme Operating Conditions

LD Forward Current	120 mA max.
LD Reverse Voltage	2 V max.
PD Operating Current	2 mA max.
PD Reverse Voltage	20 V max.
TEC Current	1.2 A max.
TEC Voltage	4.0 V max.
Operating Case Temperature	20 °C to +70 °C
Storage Temperature	-40 °C to +85 °C
Lead Temperature/Time	260/10 °C/s

