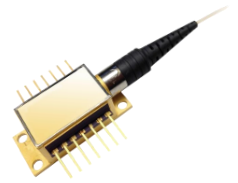


1004 FP Laser Diode

LD-1550P-BP



1550 nm Fabry Perot Laser Diode, 20 mW CW, 50 mW Peak Power

The LD-1550P-BP is a high power Fabry-Perot (FP) laser diode with a 1550 nm wavelength. The LD-1550P-BP incorporates a strained multi-quantum (st-MQW) laser diode chip with thermo-electric cooler (TEC), a pin photodiode, and PM output fiber, in a hermetically sealed 14-pin butterfly package. It can be used for both CW and pulse mode. Also, the laser is designed for laboratory test application that requires short coherence laser.

FEATURES

- 20 mW CW Output Power
- 50 mW Peak Power
- Used for Both CW & Pulse
- Short Coherence Length
- PM Fiber Output Available
- Built in TEC, Thermistor & Monitor PD

USE IN

- Interferometer
- Multi-mode Laser Source
- General Laboratory and Research Use
- Fiber Sensors

ORDERING OPTIONS

LD-15XXP-BP-YY-ZZ

XX: Wavelength in nm

YY: PM for PM, None for SM

ZZ: Output Power in mW: 20, 30

1004 FP Laser Diode

Center Wavelength	1530 nm to 1560 nm
Optical Output Power (CW)	20 mW typ.
Operating Current (CW)	200 mA typ.
Peak Output Power (Pulse)	50 mW typ.
Operating Current (Pulse)	500 mA typ.
Forward Voltage	2.5 V typ.
Series Resistance	25 Ω typ.
Threshold Current	25 mA typ.
Monitor Current	0.10 mA min.; 1.0 mA max.
Photodiode Dark Current	2 nA typ.; 100 nA max.
Side Mode Suppression	30 dB typ.
Spectral Width	10 nm max.
Optical Isolation	30 dB typ. (No Isolator Version is Available Up on Special Request)
Polarization Extinction Ratio	20 dB typ.
Reverse Voltage	2 V
Operating Current	200 mA
PD Reverse Voltage	20 V
PD Forward Current	10 mA
TEC Voltage	4 V
TEC Current	4 A
Operating Temperature	-10°C to +60°C
Storage Temperature	-40°C to +70°C
Operating Humidity	95% @ 30°C max.
Optical Fiber Type	SMF28 (PANDA PM Available)
Optical Connector	FC/APC, Other Available
TEC Current	1.0 A max.
TEC Voltage	2.4 V max.
TEC Resistance	2.4 Ω typ.
Thermistor Resistance	7.7 k Ω min.; 12.6 k Ω max.
Thermistor B Constant	3,270 K min.; 3,450 K typ.; 3,630 K max.