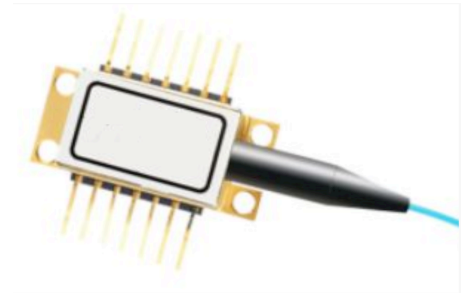




シリーズ DFB- nm-PM-40

- 使用の波長帯よりお選びくださいませ。
- 次ページには1550nmの仕様書を記載しております。
- 波長以外の仕様は、同じでございます。



AVAILABLE DFB-XXXX-PM WAVELENGTHS

Wavelength Selection	
1528 nm	1546 nm
1530 nm	1548 nm
1532 nm	1550 nm
1534 nm	1552 nm
1536 nm	1554 nm
1538 nm	1556 nm
1540 nm	1558 nm
1542 nm	1560 nm
1544 nm	1562 nm

OPTIONS

DFB-XXXX-PM-YY

XXXX: Wavelength in nm

YY: Output Power in mW
20
30
40



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DFB-1550-PM

DEVICE **1550 nm DFB Laser Diode, PM Output, up to 40 mW**

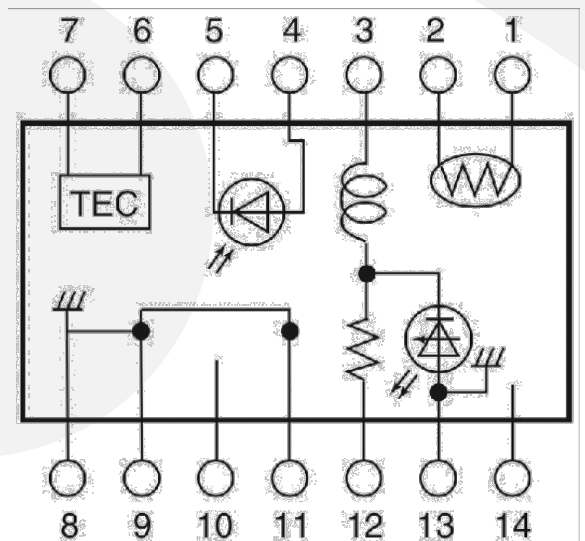
OVERVIEW The Optilab DFB-1550-PM-40 is a Distributed FeedBack Laser designed for Continuous Wave (C.W) operation. It is mostly utilized in combination with an external optical modulator, such as a Mach-Zehnder Interferometer (MZI) modulator. The MQW DFB laser features up to 40 mW of output optical power, high side mode suppression ratio, low RIN noise, and a narrow linewidth. The DFB-1550-PM-40 is housed in an industry standard 14-pin butterfly package, with a built-in thermoelectric cooler, thermistor, a back-facet monitor photodiode for conventional power monitoring, and an optional second photodiode for wavelength reference monitoring. Available in a wide variety of C-band wavelengths, the DFB-1550-PM-40 can be temperature tuned to ITU frequencies to allow for Dense Wavelength Division Multiplexing (DWDM) applications.

- FEATURES
- Polarization maintaining output
 - Up to 40 mW output power
 - Low RIN noise, -145 dB/Hz max.
 - Wavelengths Range to select: from 1528 nm to 1562 nm
 - Built in TEC, Thermistor & Monitor PD

- USE IN
- Dense Wavelength Division Multiplex (DWDM)
 - RF over Fiber (RFoF)
 - Hybrid Fiber-Coaxial (HFC)
 - General laboratory and research use
 - CW Laser source

FUNCTIONAL DIAGRAM

- | | |
|---------------------|-------------------------|
| 1 Thermistor | 8 Case Ground |
| 2 Thermistor | 9 Case Ground |
| 3 Laser DC Bias (-) | 10 Not Connected |
| 4 Monitor Anode | 11 Laser Ground |
| 5 Monitor Cathode | 12 Laser Modulation (-) |
| 6 TEC (+) | 13 Case Ground |
| 7 TEC (-) | 14 Not Connected |



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SPECIFICATIONS

Wavelength Range	1528nm-1562nm
Wavelength Accuracy	± 2 nm
Wavelength Tuning	± 1.5 nm
Optical Output Power	20, 30, 40 mW
Operating Current	300 mA max. @ CW
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	40 dB min.
Linewidth	3 MHz max
Optical Isolation	35 dB typ.
Relative Intensity Noise	-160 dB/Hz max.
Polarization Extinction Ratio	20 dB typ.

GENERAL

MECHANICAL

Operating Temperature	-10°C to +60 °C
Storage Temperature	-40°C to +70 °C
Operating Humidity	95% @ < 30 °C
Optical Fiber Type	PANDA PM
Optical Connector	FC/APC, other available

TEC AND THERMISTOR CHARACTERISTICS

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.

ABSOLUTE MAXIMUM RATING

Reverse Voltage	2 V
Operating Current	400 mA
PD Reverse Voltage	20 V
PD Forward Current	10 mA
TEC Voltage	4 V
TEC Current	4 A



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