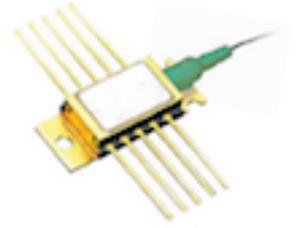




DFB-1064-PM-100-CW



DEVICE

1064 nm DFB Laser Diode, PM Output, 100 mW

OVERVIEW

The Optilab DFB-1064-PM-100-CW is a Distributed FeedBack Laser designed for Continuous Wave (CW) operation. It is mostly utilized in combination with an external optical modulator, such as a Mach-Zehnder Interferometer (MZI) modulator. It offers a CW power output of 100 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. The DFB- xxxx-PM-200-CW can also be ordered with 1030 nm wavelength option. Contact Optilab for more information.

FEATURES

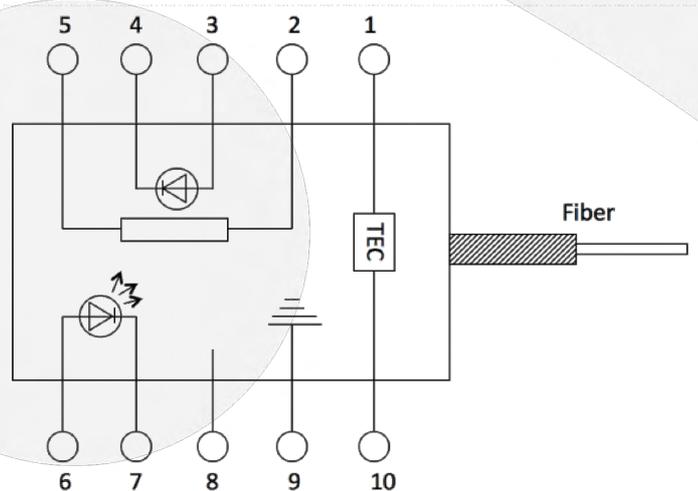
- Center wavelength: 1064±2 nm
- High Output CW-power: 100 mW
- Built in isolator
- Built in TEC for wavelength tuning

USE IN

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

PIN OUT DIAGRAM

- | | |
|-------------------|------------------|
| 1 TEC (+) | 6 Laser Anode |
| 2 Thermistor | 7 Lser Cathode |
| 3 Monitor Anode | 8 NC |
| 4 Monitor Cathode | 9 Package Ground |
| 5 Thermistor | 10 TEC (-) |



詳しい問い合わせ：有限会社アミスター
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SPECIFICATIONS

| | |
|-------------------------------|------------------|
| Center Wavelength Range | 1064 ± 2 nm typ. |
| Wavelength Tuning Range | ± 1 nm |
| Operating CW Current | 400 mA max. |
| CW Output Power | 100 mW typ. |
| Forward Voltage | 2 V typ. |
| Threshold Current | 25 mA typ. |
| Photodiode Dark Current | 5 nA max. |
| Side Mode Suppression | 30 dB min. |
| Linewidth | 100 MHz typ. |
| Polarization Extinction Ratio | 20 dB typ. |

GENERAL

| | |
|-----------------------|--------------------------|
| Operating Temperature | -10°C to +60°C |
| Storage Temperature | -40°C to +85°C |
| Operating Humidity | 95% @ < 30°C |
| Optical Fiber Type | PM 980 |
| Optical Connector | FC/APC, others available |

MECHANICAL

| | |
|--------------------|--------|
| Reverse Voltage | 2 V |
| Operating Current | 500 mA |
| PD Reverse Voltage | 10 V |
| PD Forward Current | 10 mA |
| TEC Current | 4 V |
| TEC Voltage | 2.2 A |

ABSOLUTE MAXIMUM RATINGS

OPTIONS

DFB-xxxx-PM-yy

xxxx:
yy:

Wavelength in nm: 1030, 1064
Output Power in mW: 100



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