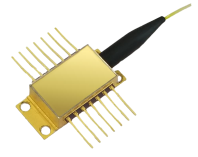


0202 1480 nm Pump Laser Diode

PL-1420-PM-240



1420 nm Pump Laser Diode, 240 mW, PM Fiber

The pump has been designed for use in a wide variety of optical amplifiers, such as EDFA and Raman amplifiers used in optical transmission systems, especially in dense wavelength division multiplexing (DWDM) systems. A strained multi-quantum well (st-MQW) laser diode chip is integrated with thermo-electric cooler (TEC) and PIN photodiode in a hermetically sealed 14-pin butterfly package.

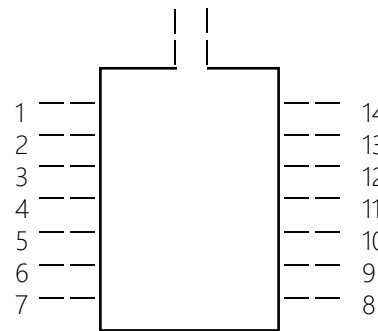
FEATURES

- Rated Output Power Up to 240 mW (CW)
- Polarization Maintaining Fiber Pigtail
- 14-pin Butterfly Footprint
- Integrated PIN Photodiode for Back Facet Monitor

USE IN

- Pump Source for Er-Doped Fiber Amplifier
- C- and/or L-band EDFA
- Single Channel Amp. to DWDM Amp.
- Pump Source for Raman Amplifier

FUNCTIONAL DIAGRAM



Pin Description

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

Reference Power	180 mW
Threshold Current	26.7 mA
Fiber Launched Optical Power: Pf750 mA	203.1 mW
Photodiode Current: I _{pd} 180 mW	1169.3 μA
External Differential Efficiency	296 mW/A
Forward Voltage 1.2X180 mW	2.151 V
Thermoelectric Cooler Current	973 mA
Thermoelectric Cooler Voltage	2.96 V
Laser Forward Current	644.6 mA
Peak Average Emission Wavelength at 180 mW	1419.7 nm
Pin Band P(±1.5 nm)/P(±50 nm) at 180 mW	96.82%

Order notes to our customers: The default parameters are as follows. For special needs, please contact sales.

1) Connector FC/APC, 900 um, 1 m by default for all devices except for high power devices.

2) Slow axis working, fast axis blocked, connector key is aligned to slow axis by default for PM devices.