



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.

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FEATURES

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

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

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| Reference Power | | 180 mW |
| Threshold Current | | 26.7 mA |
| Fiber Launched Optical Power: P _{f750} mA | TL 30°C | 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 | dT 40°C | 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% |