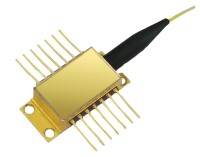


# 0202 1480 nm Pump Laser Diode

**PL-1443-PM-240**



## 1443 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.

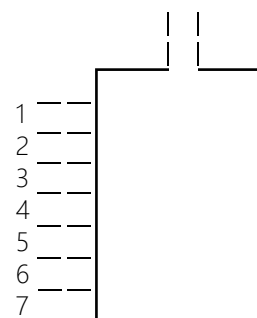
### FEATURES

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

Threshold Current	25.9 mA
Fiber Launched Optical Power: Pf700	167.7 mW
Fiber Launched Optical Power: Pf750	177.8 mW
Photodiode Current at 700 mA	1636 $\mu$ A
External Differential Efficiency	251 mW/A
Forward Voltage at 700 mA	1.673 V
Thermoelectric Cooler Current	1157 mA
Thermoelectric Cooler Voltage	3.78 V
Laser Forward Current	572.9 mA
Average Emission Wavelength at 700 mA	1443.1 nm
Pin Band P( $\pm$ 1.5 nm)/P( $\pm$ 10 nm)	86.49%

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

**1) Connector FC/APC, 900  $\mu$ m, 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.**