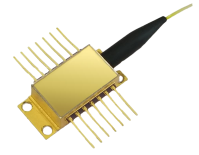


## 0902 1480 nm Pump

PL-1456-PM-280



### 1456 nm Pump Laser Diode, 280 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 280 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

Storage Temperature	-40°C to 85°C
Operation Temperature	0 to 70°C
LD Forward Current	1000 mA max.
LD Reverse Voltage	2 V max.
PD Forward Current	5 mA max.
PD Reverse Voltage	20 V max.
TEC Current	2 A max.
TEC Voltage	4.5 V max.
Center Wavelength	1400 nm to 1500 nm ( $\pm 2$ nm)
Spectral Width	8 nm max.
LD Operating Forward Voltage	2.3 V max.
LD Forward Current at EOL	1.2xI <sub>fBOL</sub> mA max.
Monitor Current	50 $\mu$ A min.; 1000 $\mu$ A max.
Monitor Dark Current	100 nA max.
Extinction Ratio	13 dB min.
Thermistor Resistance	9.5 k $\Omega$ min.; 10 k $\Omega$ typ.; 10.5 k $\Omega$ max.
Thermistor B Constant	3900 typ.