

## 1002 1480 nm Pump

# PL-1480-500

## 1480 nm Pump Laser Diode, 500 mW, SM/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.

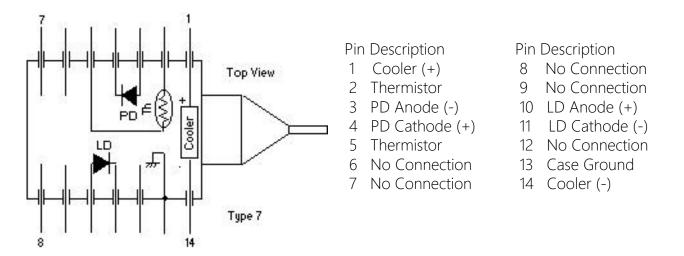
### FEATURES

- Fiber-Coupled Power up to 500 mW
- SM/PM Fiber
- 14-pin Butterfly Footprint

#### 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



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.

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Integrated PIN Photodiode for Back
Facet Monitor



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### sales@wdmquest.com www.wdmquest.com

## PL-1480-500

Storage Temperature	-40°C to 85°C
Operating Case Temperature	-20°C to 70°C
LD Forward Current	2100 mA max.
LD Reverse Voltage	2 V max.
PD Forward Current	5 mA max.
PD Reverse Voltage	20 V max.
TEC Current	-1.1 min.; 4.5 A max.
TEC Voltage	4.5 V max.
Relative Humidity	0 to 85%
Torque Force	0.08 N m max.
Electrostatic Discharge (ESD) (HBM)	500 V max.
Fiber-Coupled Power	500 mW min.
Threshold Current	120 mA max.
LD Forward Voltage	2.5 V max.
LD Forward Current (BOL)	1800 mA max.
LD Forward Current (EOL)	2070 mA max.
Monitor Current	100 uA min.; 2000 uA max.
Monitor Dark Current	100 nA max.
Monitor Capacitance	15 pF max.
Center Wavelength	1460 nm to 1490 nm
Spectral Width	8 nm max.
TEC Current	3.2 max.
TEC Voltage	3.8 V max.
Total Power Consumption	15 W max.
Polarization Extinction Ratio	16 dB min.
Thermistor Resistance	9.5 k ohms min.; 10 k ohms typ.; 10.5 k ohms max.
Thermistor B Constant	3900 K typ.
Tracking Error	-0.5 dB min.; 0.5 dB max.
Return Loss	25 dB min.
Isolation	30 dB min.
Fiber Type	SM/PM

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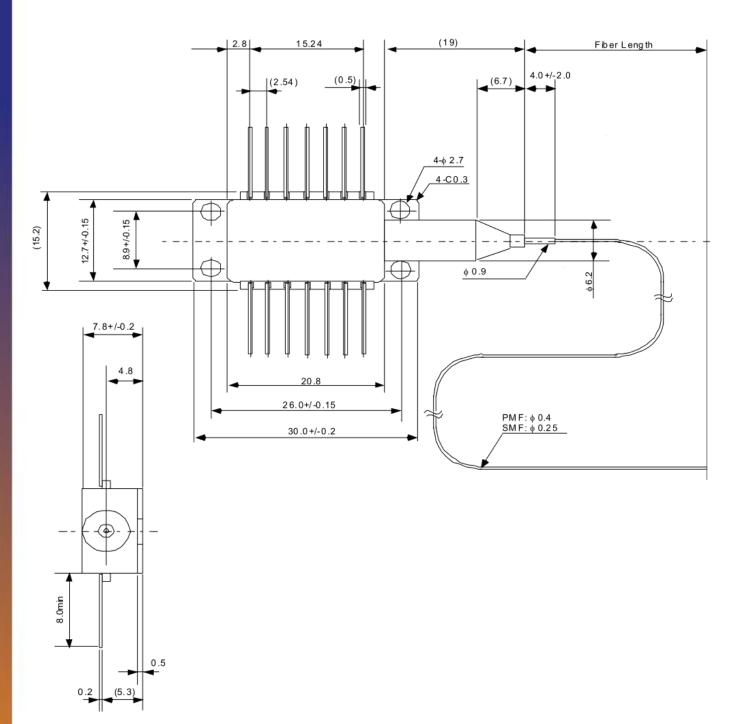


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#### MECHANICAL DRAWING



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