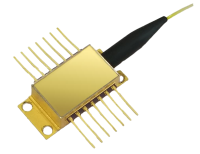


# 1002 1480 nm Pump

**PL-1495-PM-240**



## 1495 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.

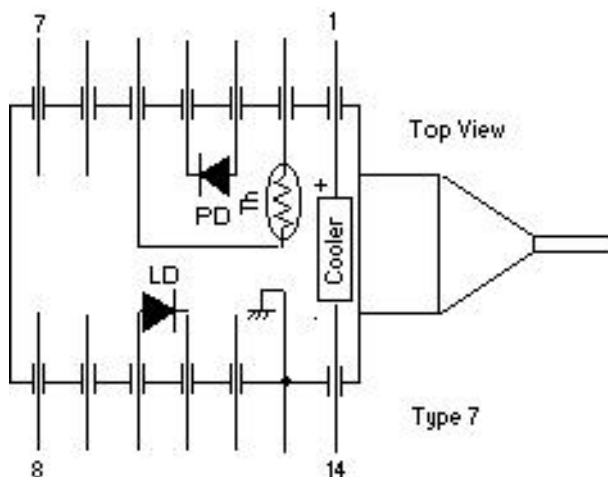
### FEATURES

- Rated Output Power Up to 250 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

### FUNCTIONAL DIAGRAM



- Pin Description
- 1 Cooler (+)
  - 2 Thermistor
  - 3 PD Anode (-)
  - 4 PD Cathode (+)
  - 5 Thermistor
  - 6 Not Connected
  - 7 Not Connected

- Pin Description
- 8 Not Connected
  - 9 Not Connected
  - 10 LD Anode (+)
  - 11 LD Cathode (-)
  - 12 Not Connected
  - 13 Case GND
  - 14 Cooler (-)

**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.**

## 1002 1480 nm Pump

PL-1495-PM-240

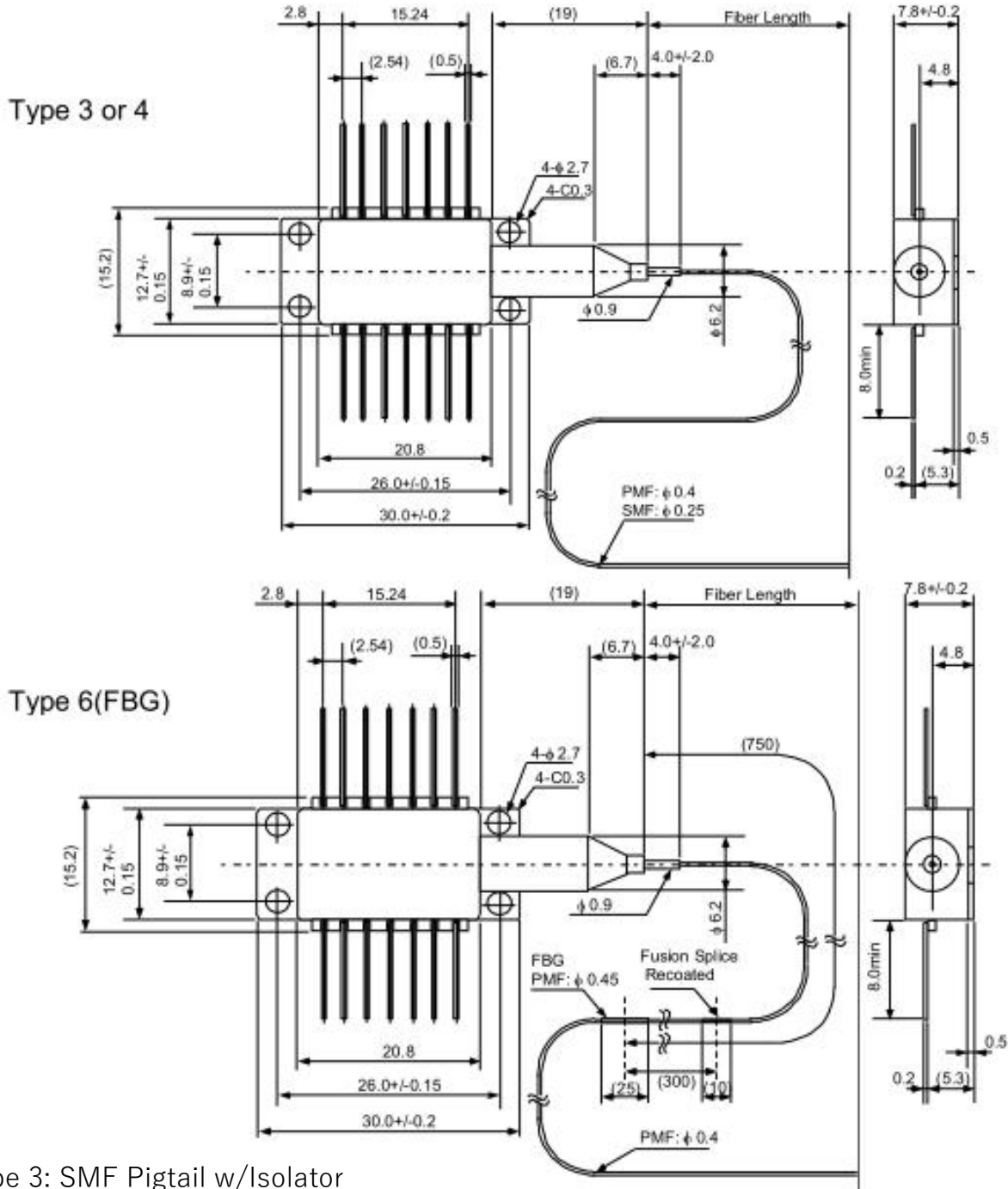
Storage Temperature	-40°C to 85°C
Operation Temperature	-20°C to 70°C
LD Forward Current	1000 mA max.
LD Reverse Voltage	2 V max.
PD Forward Current	5 mA max.
PD Reverse Voltage	20 V max.
TEC Current	-0.6 A min.; 2 A max.
TEC Voltage	4.5 V max.
Center Wavelength (FP)	1460 nm to 1490 nm
Center Wavelength (FBG)	1420 nm to 1510 nm ( $\pm 1.5$ nm)
Spectral Width (FP)	8 nm max.
Spectral Width (FBG)	3 nm max.
Forward Voltage	2.5 V max.
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	16 dB min. (Type 4 & Type 6)
Isolation	30 dB min. (Type 3 & Type 4)
Thermistor Resistance	9.5 k $\Omega$ min.; 10 k $\Omega$ typ.; 10.5 k $\Omega$ max.
Thermistor B Constant	3900 K typ.

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## MECHANICAL DRAWING



Type 3: SMF Pigtail w/Isolator

Type 4: PMF Pigtail w/Isolator

Type 6: PMF Pigtail w/FBG

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