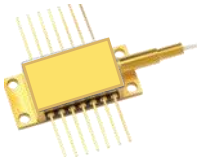
sales@wdmquest.com
www.wdmquest.com

1001 980 nm Pump

PL-980-310



980 nm Pump Laser Diode, 310 mW Kink Free, TEC, FBG

The lasers are designed as pump sources for EDFA applications. Processes and techniques of coupling the fiber to the laser allow high output powers that are very stable with both time and temperature.

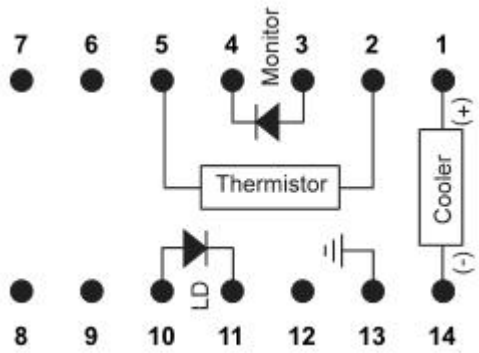
FEATURES

- Very High Kink-free Powers to 500 mW
- Low-Profile, Epoxy-Free, And Flux-Free 14-Pin Butterfly Planar Package With PM Fiber
- Fiber Bragg Grating Stabilization
- Integrated Thermoelectric Cooler, Thermistor, and Monitor Diode
- High Dynamic Range
- Excellent Low Power Stability

USE IN

- Low Noise EDFAs
- HFC Applications
- Next Generation DWDM EDFAs Requiring the Highest Power with "Locked" Wavelength Emission
- Reduced Pump-count EDFA Architectures
- HFC Trunks and Very High Node Count Distribution

FUNCTIONAL DIAGRAM



Pin	Description	Pin	Description
1	Cooler (+)	8	N/C
2	Thermistor	9	N/C
3	Monitor PD Anode (-)	10	Laser Anode
4	Monitor PD Cathode (+)	11	Laser Cathode
5	Thermistor	12	N/C
6	N/C	13	Case Ground
7	N/C	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.

sales@wdmquest.com
www.wdmquest.com

1001 980 nm Pump

PL-980-310

Wavelength	973 nm to 986 nm
Operating Power	280 mW
Operating Current	555 mA
Kink-Free Power	310 mW max.
Kink-Free Current	615 mA max.
Threshold Current	30 mA max.
Forward Voltage	2.5 V max.
Pump in Pump Band	90% min.
Spectral Width	2.0 nm max.
Wavelength Tuning vs. Temperature	0.02 nm/°C max.
Monitor Diode Responsivity	2 μA/mW min.; 20 μA/mW max.
TEC Cooling Capacity	50°C min.
Thermistor Resistance	9.5 kΩ min.; 10.5 kΩ max.
Thermistor Constant	3600 K min.; 4200 K max.
Operating Case Temperature	-5°C to +75°C
Storage Temperature	-40°C to +85°C
LD Reverse Voltage	2.5 V max.
LD Forward Current	1100 mA max.
LD Reverse Current	10 uA max.
PD Reverse Voltage	20 V max.
PD Forward Current	10 mA max.
Bend Radius	16 mm min.
TEC Voltage	4.5 V max.
Relative Humidity	5% to 95%
Fiber Type	Panda PM-980

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

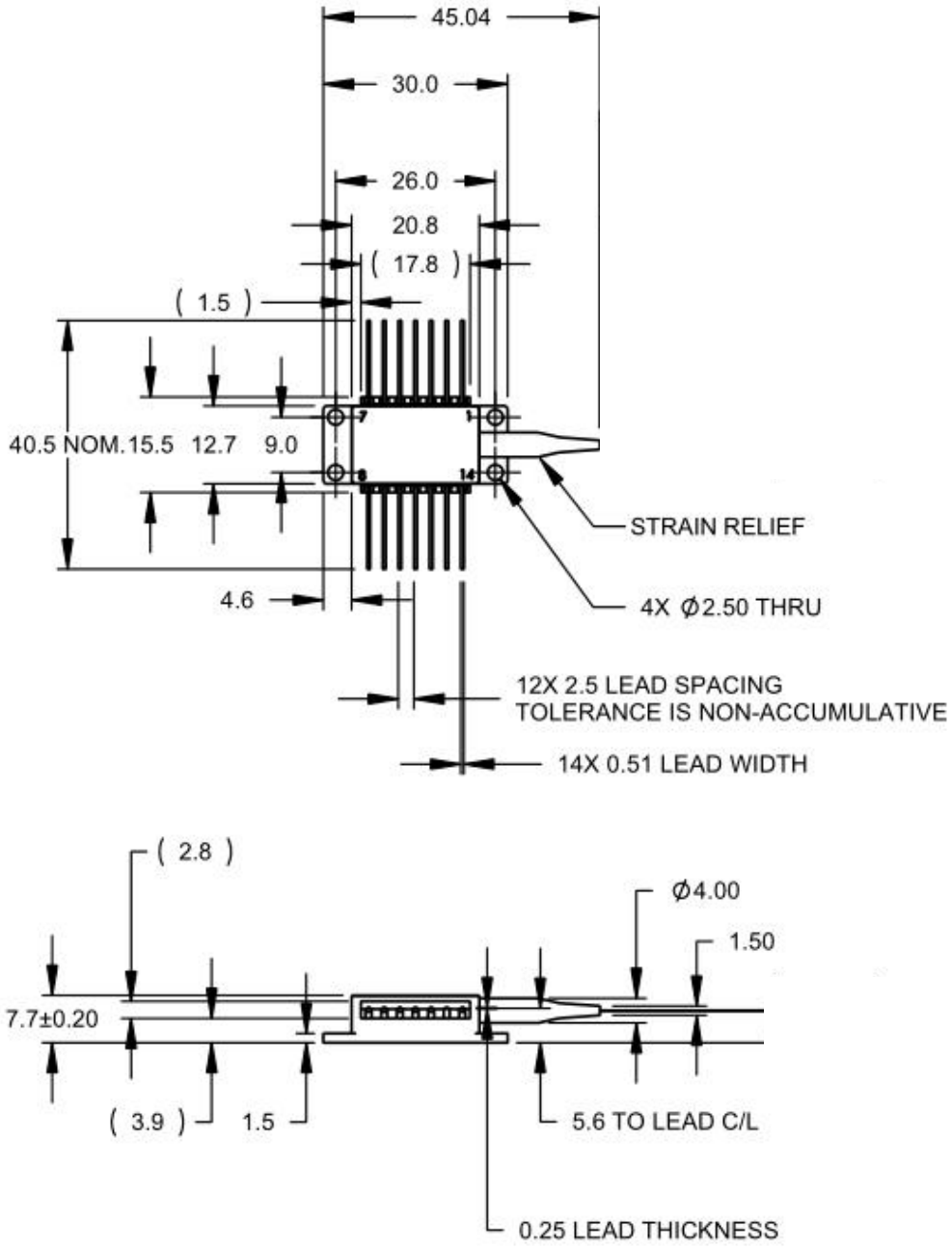
1) Connector FC/APC, 900 um, 1 m by default for all devices except for high power devices.

2) Slow axis working, fast axis blocked, connector key is aligned to slow axis by default for PM devices.

1001 980 nm Pump

PL-980-310

MECHANICAL DRAWING



Unit: mm
Tolerance: .x±0.3; .xx±0.2

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.