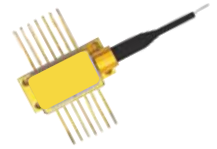


1001 980 nm Pump

PL-980-130



980 nm Pump Laser Diode, 130 mW Kink Free, TEC, FBG

The 980 nm pump module is currently deployed in many of today’s DWDM systems and HFC distribution systems. This module has proven reliability with more than 100 million field deployed hours of operation. The pump module uses fiber bragg grating stabilization to “lock” the emission wavelength and provides a noise-free narrow band spectrum even under changes in temperature, drive current and optical feedback.

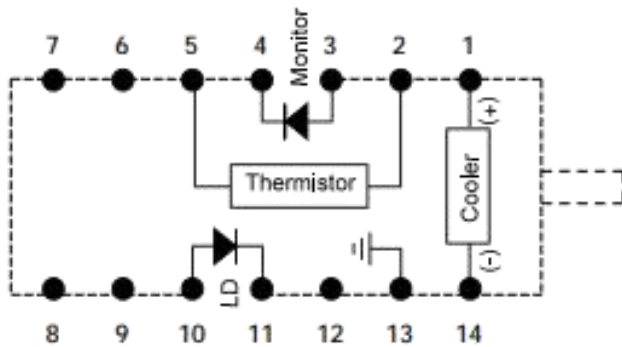
FEATURES

- Fiber Bragg Grating Stabilized
- High Kink-free Powers to 130 mW
- Wavelength Selection Available
- Superior Tracking Error and Tracking Ratio
- Integrated TEC and Thermistor

USE IN

- DWDM EDFAs
- HFC Distribution
- High Bit Rate, High Channel Count EDFAs

FUNCTIONAL DIAGRAM



Pin Description

- 1 Cooler (+)
- 2 Thermistor
- 3 Monitor PD anode
- 4 Monitor PD cathode
- 5 Thermistor
- 6 Not connected
- 7 Not connected

Pin Description

- 8 Not connected
- 9 Not connected
- 10 Laser anode (+)
- 11 Laser cathode (-)
- 12 Not connected
- 13 Case ground
- 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.

1001 980 nm Pump

PL-980-130

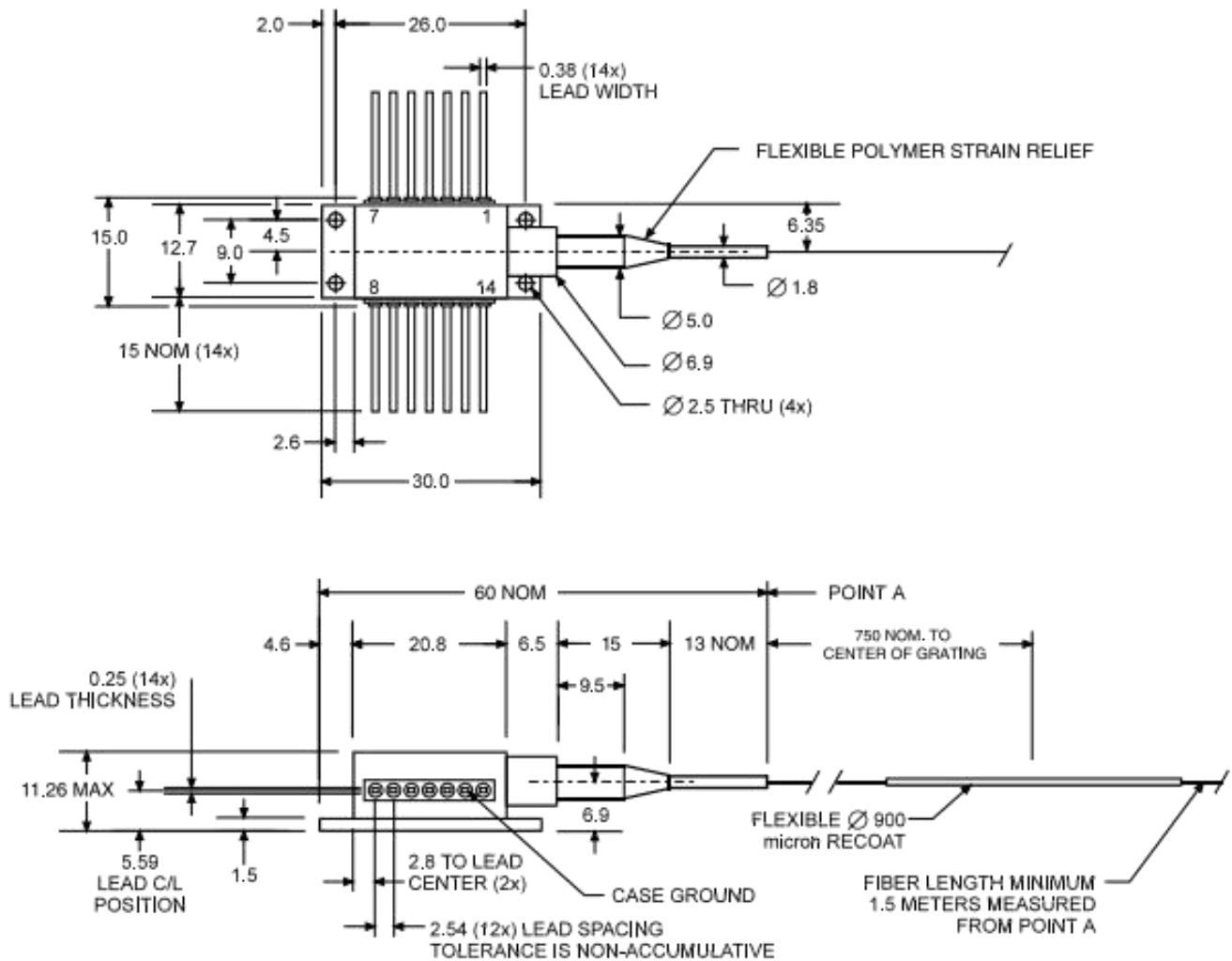
Peak Wavelength	974 nm min.; 985 nm max.
Spectrum Shift vs. Temperature	0.02 nm/°C max.
Threshold Current	25 mA max.
Operating Power	120 mW max.
Operating Current	270 mA max.
Kink-Free Power	130 mW max.
Kink-Free Current	290 mA max.
LD Forward Current	500 mA max.
LD Forward Voltage	2.5 V max.
LD Reverse Current	20 uA max.
LD Reverse Voltage	4.5 V max.
PD Reverse Voltage	20 V max.
PD Reverse Current	5E-9 A max.
MPD Forward Current	5 mA max.
Thermistor Voltage	5 V max.
Thermistor Current	2 mA max.
Thermoelectric Cooler Voltage	4 V max.
Thermoelectric Cooler Current	2.5 A max.
TEC Voltage	2.5 V max.
Cladding Diameter	125±2 um
Coating Diameter	250 um
Fiber Type	SM
Operating Case Temperature	-40°C to +75°C
Storage Temperature	-20 °C to +70 °C
Relative Humidity	5% to 95%

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MECHANICAL DRAWING Unit: mm



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