



INTEGRATED 976NM LASER DIODE
grating stabilized, single mode
with PM fiber pigtail

**Includes 3SP Technologies FBG
Stabilized Pump Laser Diode Integrated into
Pre-Configured Control Electronics and Mounting
Module**

**0.5W FBG Grating Stabilized Laser Diode Pump
Source & Control Module**

**Narrow Emission Bandwidth for Yb³⁺ or Er³⁺
Pumping**

User Adjustable Current and Temperature Control

**Telcordia Qualified Laser Diode ~ Highest Relia-
bility Rating**

USB Interface and Control GUI Provided

**WORLD LEADING PRODUCTS
FOR LASER SCIENTISTS AND ENGINEERS**



SPECIFICATIONS

976NM GRATING STABILIZED LASER DIODE SOURCE OUTPUT

- Center Wavelength: 976.0 nm (± 0.5 nm)
- Operating Output Power: 0.00 - 500 mW
- Specified Forward Current: 1,140 mA
- Specified Forward Voltage: 1.9 Volts
- Specified Threshold Current (max): < 100 mA
- Wavelength tuning vs temperature: 0.02 nm / °C
- Spectral width @ -3 dB (FWHM, max): < 0.6 nm
- Power in band: > 90%
- Optical power stability: < 2%
- Telcordia Qualified

CONTROL MODULE: LASER DIODE CURRENT OUTPUT

- Output Current CW Mode: 0.00 mA to 1500.00 mA
- Output Voltage Maximum: 4.8 Volts
- Noise and Ripple (rms 100Hz to 10 MHz): < 0.03%
- Set-point Resolution @ 500mA: 0.1 mA
- Set-point Resolution @ 800mA: 0.2 mA
- Back-Facet Power Monitor Connector: BNC

CONTROL MODULE: TEMPERATURE CONTROLLER & MOUNTING SOCKET

- TEC Current Range: 0.0 - 1.5 Amps
- TEC Voltage Range: 0.0 - 3.8 Volts
- Zero Insertion Force Mounting Socket
- Butterfly Packaged Laser Diode Modules, Type-I Pin Configuration
- Compatible with NTC Thermistor Sensors: ie 10 k Ω

USER INTERFACE AND POWER INPUT

- Remote I/O: USB with Graphical User Interface Software
- Analog (0-3.3V) Remote Signal Peak Power Adjustment
- Input Power Supply: 12VDC (220V/110V adapter included)
- DIMENSIONS: 146mm (W) x 130mm (L) x 37mm(H)



PRODUCT SALES AND SERVICE:

Orders for this product are fulfilled by Laser Lab Source in North America and select international regions. It is manufactured by Aerodiode, Talence, France.

PRODUCT WARRANTY:

This product is sold with a full one year warranty. It is warranted to be free from defects in material and/or workmanship for a period of one year from the date of shipment.



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