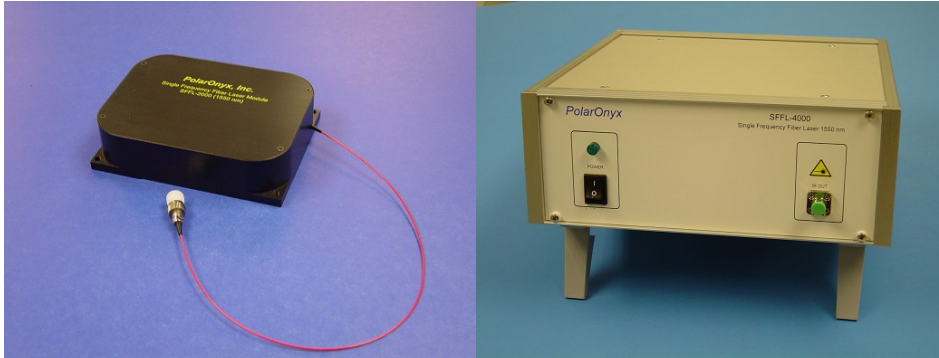


Neptune Series

Based on our patent pending proprietary technology and expertise on specialty fiber optics, PolarOnyx has launched a series of low cost single frequency fiber lasers (*Neptune Series*) to meet the requirements of various applications. Build-in electronics provides interface (customer defined) with computer for ease of automation and system integration. Instrument version is also available.



Key features

- < 1 kHz Narrow linewidth
- Excellent power and frequency stability
- Mode hopping free
- > 50 dB side mode suppression ratio
- Low phase noise
- Small form factor

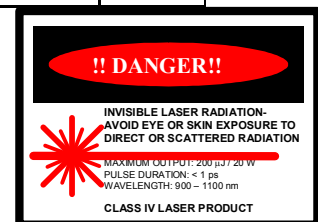
Applications

- Instrumentation and measurement
- Fiber sensor systems
- Fiber Gyro systems
- Coherent Communications and Lidars
- Spectroscopy
- Metrology

Specifications

| Item | Min | Typical | Max | Unit |
|------------------------|------|---|--------|-------|
| Output power | 10 | | 30 | dBm |
| Output power stability | | | ± 0.05 | dB |
| Spectral linewidth | | 2 | 5 | KHz |
| Wavelength range | 1530 | 1550 | 1565 | nm |
| SMSR | 50 | | | dB |
| Return loss | | 30 | | dB |
| Operating temperature | 10 | | 40 | °C |
| RIN | | -125 | | dB/Hz |
| Power consumption | 1 | | 10 | W |
| Electronic Interface | | RS232 | | |
| Size | | 171x127x53(module) 235x240x100(instrument) | | mm |

PolarOnyx, Inc. reserves the right to change specs at any time without notice.



Order Information

Single Frequency Fiber Laser

NEPYUNE XXXX-YYYY-AAA

XXXX: Lasing wavelength. **1000** represents 1550 nm and **2000** represents 1060 nm.

YYYY: Output power level. For example, **0020** represents 20 mW output power and **1000** represents 1000 mW output power.

AAA: **MOD** represents OEM module.
INS represents instrument.

Example: NEPTUNE 1000-0150-INS

This part number represents 1550 nm single frequency fiber laser instrument with an average output power of 150 mW.

