

For Immediate Release
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Press Release

NP Photonics Introduces First in Portfolio of Erbium Micro Fiber Laser Modules

Fixed-Wavelength Fiber Laser Module Features Narrow Linewidth, High Output Power and Small Footprint

NP Photonics (Tucson, AZ), a manufacturer of miniaturized optical-fiber-based components, announces the first in its forthcoming portfolio of fiber laser products. Based on the company's Erbium Micro Fiber (EMF) technology, the SMPF-2030 is a fixed wavelength fiber laser module that features narrow linewidth, high output power and a compact package.

With a linewidth of less than 10 kHz, mode-hopping free, and a side mode suppression ratio of greater than 50 dB, this new fiber laser module is ideal for integration into a wide variety of instruments where extreme sensitivity and high resolution are vital. These include atmospheric and remote sensing, spectroscopy, LIDAR and a range of other test and measurement applications.

Also useful as a transmitter for undersea optical telecommunications, the SMPF-2030 features an industry-leading specification for relative intensity noise at less than -140 dB/Hz at 2 MHz. The Telcordia-compliant fiber laser module is available at ITU 50 GHz for the entire C-band and offers a wavelength accuracy of ± 500 MHz. In addition, the fiber laser module includes embedded microprocessor control and a 1-meter-long PM fiber pigtail connector with a jacket diameter of 250 μm or 900 μm .

By incorporating its EMF technology into the design, NP Photonics is able to create a fiber laser module with 30 mW of output power in a small footprint. A Telcordia-qualified single mode diode laser provides the high reliability pump power to drive NP Photonics' unique erbium-doped micro fiber in a single integrated package measuring just 168 mm x 70 mm x 19 mm.

"Typically, fixed wavelength lasers require an external booster amplifier to achieve higher output powers," said Chuck Chandler, CEO of NP Photonics. "However, by incorporating our unique gain fiber, we've been able to achieve a higher output power without an amplifier, resulting in an integrated laser module with a relatively high output power in a compact footprint. And our EMF technology not only results in a smaller package, but it also allows us to offer the laser module at a lower price than similar products currently on the market."

The company will also develop a tunable version of the SMPF-2030 for metro network applications. NP Photonics' amplifiers, tunable filters and new fiber laser will be on display at NFOEC booth #1501, September 15-19, 2002, in Dallas, Texas.

Founded in 1998, NP Photonics is the originator of the Erbium Micro Fiber (EMF) technology and is dedicated to the design, manufacture and marketing of compact, low cost, intelligent fiber-based products. The company has developed a wide family of products based on its EMF technology platform, including amplifiers, fiber amplifier arrays and fiber lasers. NP Photonics also manufactures a line of tunable filter products based on its Compliant MEMS technology.

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