

For Immediate Release
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Press Release

NP Photonics Introduces Compact ASE Module

Broadband Light Source Ideal for Fiberoptic Sensing, Passive Component Testing

NP Photonics (Tucson, AZ), introduces the ASE SMP-4010, a compact Amplified Spontaneous Emission (ASE) module based on the company's unique fiber technology. Featuring high power delivered from a compact package, the ASE SMP-4010 is ideal for a variety of sensing and spectroscopy applications and as a light source for fiberoptic gyros. It is also valuable as a light source for passive optical component testing, with broadband output across the telecommunications C-band (1525 nm to 1565 nm).

"A lot of similar incoherent light sources on the market today are either high power, high cost or low power, low cost," said Arturo Chavez-Pirson, ASE project manager. "Our ASE delivers the best of both worlds—it provides ample power for most sensing and testing applications and it is competitively priced."

NP Photonics offers 7-, 10- or 13-dBm versions of the ASE SMP-4010. Power stability for each version is ± 0.01 dB. The module consumes less than 3W of power while delivering stable broadband light via a single mode fiber with a 250- μ m or 900- μ m-diameter jacket. Optionally, the spectrum can be flattened with a gain flattening filter.

NP Photonics is able to achieve high output power without an external booster amplifier, resulting in a fully integrated, compact module.

A completely integrated Telcordia-qualified single mode diode laser serves as a stable and reliable pump source while an incorporated microprocessor provides complete control of the module's functions. Monitoring and control electronics, standard pin functions and an MSA-compliant footprint (90 mm x 70 mm x 12 mm) facilitate integration for the system designer.

Founded in 1998, NP Photonics is the originator of Erbium Micro Fiber (EMF) technology and is dedicated to the design, manufacture and marketing of compact, low-cost, intelligent fiber-based products for the sensing and telecommunications industries. The company has developed a broad family of products based on its EMF and Compliant MEMS technology, including tunable filters, Optical Spectrum Analyzer Engines, fiber lasers, ASE Sources and fiber amplifiers.

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