

EM4 Showcases Full Line of High-Speed, Small and Highly-Reliable Optical Devices

Available for use in broad array of medical, clinical and diagnostic applications

Orlando, Florida – March 13, 2006 – EM4, Inc., a market and technology leader in optoelectronic components and manufacturing services, will showcase its full line of state-of-the art optoelectronic components for the life sciences industry at PITTCON Booth #3055 March 13-16 here at the Orange County Convention Center.

The product portfolio features an extensive range of fiber-coupled and free-space active source and detector modules in the 532nm to 1600nm wavelength region. The modules which are applicable to a very broad spectrum of areas, such as bioanalytical chemistry, pharmaceutical chemistry, nanotechnology, environmental, forensic and food analysis and other areas, are currently in use today in fiber lasers used in some of the most advanced medical equipment. Typical applications include medical devices used in soft and hard tissue surgery, medical imaging, lasik surgery, and dental procedures.

“Optical sensing applications have been in demand for some time. But now with the cost of lasers coming down, it’s become viable for more and more doctors to be able to safely and affordably perform popular new procedures that sweeping advances in technology have made available,” said Basil Garabet. “All of our active optical devices are built with our core competency in sub-micron assembly technology to assure the highest reliability and performance.”

Designed with EM4’s high coupling efficiency of optical transmission, EM4’s industry record high power pump and diode lasers improve medical laser system performance and reliability. Their small size also makes them an ideal optical source for integration into clinical applications and medical diagnostics. The industry-leading product family includes:

High Power Multimode and Singlemode Pump Lasers

EM4’s advanced High Power Laser (HPL) line of multimode pump lasers all are designed to deliver high power and reliability. The HPL series offers four epoxy-free hermetic package types, 3 pin (TO258), 8 pin and 14 pin cooled and uncooled options, built to defense industry standards to meet all application needs. The HPL Series single-emitter fiber-coupled laser diodes offer up to 7 W power into a 105µm fiber with either a 0.15 or 0.22NA in an operating temperature range of -5 to 70 °C. The >12W laser, available in Q2 06, retains the dimensions and features of the highly successful ultra high reliability and power HPL family into a 200 µm fiber.

The company’s singlemode 980 pump lasers feature industry-record high power with 600mW of output power. The 980nm laser modules are qualified according to the Telcordia GR-486-CORE standard, the industry’s most stringent reliability test.

High Speed Receivers

The EM4 high speed detector (HSD) modules are expressly designed for the demanding environments of defense, avionic and aerospace applications. The 2-pin package is a hermetically sealed module containing an InGaAs PIN high speed photodiode with a flat frequency response to 20 GHz with a SMA compatible RF connector.

Other EM4 Products

Additional products from EM4 include 2.5 Gb/s and 10 Gb/s source lasers and receivers, high power PM fiber coupled DFB lasers, super luminescent LEDs (SLEDs), acoustic optic modulators (AOMs) and high power pigtailed isolators.

All components are manufactured in the U.S. at EM4’s state-of -the-art facility in Bedford, Massachusetts where EM4 has developed proprietary tools that provide faster and more accurate fiber alignment and assembly that greatly speeds the manufacturing process. With onsite design, manufacturing and assembly, EM4 is well-positioned for rapid-time-market and the dynamic flexibility for customization.

About EM4, Inc.

EM4, Inc., and its wholly owned subsidiary **EM4 Defense**, designs, develops and manufactures state-of-the-art, optoelectronic components and sub-systems for the Defense and Homeland Security market. EM4 offers both Commercial-Off-the-Shelf (COTS) optoelectronic modules and unique Optoelectronic Design and Manufacturing Services (ODMS). EM4 Defense is ITAR registered.

For further information, please visit the EM4 Web site at www.em4inc.com