



EMCORE Introduces Model 1995 High-Power TOSA DFB Laser for LiDAR and Autonomous Vehicles at OFC

March 1, 2022

ALHAMBRA, CA, March 01, 2022 (GLOBE NEWSWIRE) -- EMCORE Corporation (Nasdaq: EMKR), a leading provider of advanced mixed-signal products that serve the aerospace & defense, communications, and sensing markets, announced today its new Model 1995 1550 nm High-Power Continuous Wavelength (CW) Source Distributed Feedback (DFB) Laser for LiDAR and autonomous vehicle applications.

The model 1995 laser is designed in a cooled TOSA (Transmission Optical Sub Assembly) form-factor in a hermetic TO56 package with 6+1 pins and is characterized for use as a Continuous Wavelength (CW) coherent optical source laser for LiDAR technology. The 1995 laser incorporates a high-isolation and high-efficiency coupling scheme to deliver 15 dBm of CW optical power with excellent spectral coherence. It expands EMCORE's product offering for LiDAR which also includes the Model 1790 1550 nm High Power CW Source Laser for LiDAR in EMCORE's classic 14-pin butterfly package.

EMCORE's design for the 1995 laser provides a compact, robust solution for Frequency Modulation Continuous Wavelength (FMCW) sensing that is essential for autonomous vehicles and a wide variety of other optical sensing applications. A key advantage of EMCORE's LiDAR laser technology for autonomous driving is its narrow linewidth achieved with a monolithic design that is highly immune to mode or optical frequency hopping typically found with external cavity designs. Mode or optical frequency hopping causes false readings in FMCW LiDAR, whereas EMCORE's laser technology maintains optical frequency stability over temperature suppressing false readings.

"Our continuing research and development efforts in optical sensing and LiDAR is opening doors into new application spaces and business opportunities for EMCORE," said Gyo Shinozaki, Vice President and General Manager of Broadband for EMCORE. "In addition to the models 1995 and 1790, EMCORE offers custom chip level development and component packaging options to enable customers to tailor our LiDAR technology to their specific requirements," added Mr. Shinozaki.

EMCORE will be presenting its solutions for optical sensing and LiDAR, high-speed telecommunications, and data center at the Optical Fiber Conference (OFC), March 8-10 at the San Diego Convention Center, booth #5203.

About EMCORE

EMCORE Corporation is a leading provider of advanced mixed-signal products that serve the aerospace & defense, communications, and sensing markets. Our best-in-class components and systems support a broad array of applications including navigation and inertial sensing, defense optoelectronics, broadband communications, optical sensing, and specialty chips for telecom and data center. We leverage industry-leading Quartz MEMS, Lithium Niobate, and Indium Phosphide chip-level technology to deliver state-of-the-art component and system-level products across our end-market applications. EMCORE has vertically-integrated manufacturing capability at its wafer fabrication facility in Alhambra, CA, and Quartz MEMS manufacturing facility in Concord, CA. Our manufacturing facilities maintain ISO 9001 quality management certification, and we are AS9100 aerospace quality certified at our facility in Concord. For further information about EMCORE, please visit <http://www.emcore.com>.

Forward-looking statements:

The information provided herein may include forward-looking statements within the meaning of Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934, as amended. Such statements include statements regarding EMCORE's plans, strategies, business prospects, growth opportunities, changes, and trends in our business and expansion into new markets. These forward-looking statements are based on management's current expectations, estimates, forecasts, and projections about EMCORE and are subject to risks and uncertainties that could cause actual results and events to differ materially from those stated in the forward-looking statements, including without limitation, the following: (a) uncertainties regarding the effects of the COVID-19 pandemic and the impact of measures intended to reduce its spread on our business and operations, which is evolving and beyond our control; (b) the rapidly evolving markets for EMCORE's products and uncertainty regarding the development of these markets; (c) EMCORE's historical dependence on sales to a limited number of customers and fluctuations in the mix of products and customers in any period; (d) delays and other difficulties in commercializing new products; (e) the failure of new products: (i) to perform as expected without material defects, (ii) to be manufactured at acceptable volumes, yields, and cost, (iii) to be qualified and accepted by our customers, and (iv) to successfully compete with products offered by our competitors; (f) uncertainties concerning the availability and cost of commodity materials and specialized product components that we do not make internally; (g) actions by competitors; and (h) other risks and uncertainties discussed under Item 1A - Risk Factors in our Annual Report on Form 10-K for the fiscal year ended September 30, 2021, as updated by our subsequent periodic reports. Forward-looking statements contained in this press release are made only as of the date hereof, and EMCORE undertakes no obligation to update or revise the forward-looking statements, whether as a result of new information, future events or otherwise.

Contact:

EMCORE Corporation

Gyo Shinozaki
Vice President and General Manager of Broadband
(626) 293-3616
gshinozaki@emcore.com

Investor

Tom Minichiello
Chief Financial Officer
(626) 293-3400

investor@emcore.com

Media

Joel Counter

Director, Corporate & Marketing Communications

(626) 999-7017

media@emcore.com

Source: EMCORE Corporation