Excelitas Technologies Unveils Enhanced High-Performance Avalanche Photodiodes for Ultra-Low Light Applications

SAN FRANCISCO, Feb. 3, 2014 – Excelitas Technologies Corp., a global technology leader focused on delivering innovative, customized optoelectronics to OEMs seeking high-performance technology solutions, today announced the availability of an enhanced series of avalanche photodiodes (APDs) that provide high-responsivity for ultra-low light applications.

Featuring a double-diffused "reach-through" structure, the C30902EH-2 and C30902SH-2 APDs are fabricated with a built-in 905 nm band pass filter for high efficiency and rapid rise and fall times. The modules can be used in normal linear mode or in "Geiger" mode, to meet customers' specific needs in LIDAR, range-finding, small-signal fluorescence, photon counting and bar code scanning applications.

"We are continually integrating industry-leading innovations and enhanced features such as a wide operating range and extremely low noise to our wide range of photodiode solutions," said Michael Ersoni, Executive Vice President, Global Commercial Business, Excelitas Technologies. "Excelitas' latest Si-APDs with integrated filters are an excellent option for OEMs seeking photon detectors that will increase the efficiency and performance of their end-products."

The EH-2 version's low-level light and advanced signal detection capabilities are further enhanced by a hermetically-sealed TO-18 package that enables minimal signal losses without the risk of endangering detector stability. Both modules offer high quantum efficiency (77% typical at the 830 nm wavelength) and rapid spectral response in the 400 – 1000 nm range.

The C30902EH-2 and C30902SH-2 modules are on display at Photonics West (San Francisco, Feb. 4 – 6, 2014) at the Excelitas Technologies booth (5509). For more information, please download the data sheet.

About Excelitas Technologies

Excelitas Technologies Corp. is a global technology leader focused on delivering innovative, customized solutions to meet the lighting, detection and other high-performance technology needs of OEM customers. From medical lighting to analytical instrumentation, clinical diagnostics, industrial, safety and security, and aerospace and defense applications, Excelitas Technologies is committed to enabling our customers' success in their end-markets. Excelitas Technologies has approximately 5,000 employees in North America, Europe and Asia, serving customers across the world. Connect with Excelitas on Facebook, LinkedIn and Twitter.

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