Excelitas Technologies Introduces NIR-Optimized Single Photon Counting Module

Enhanced Device Provides High Detector Efficiency to Support Many Applications, Including Long-Range LIDAR, Quantum Communications and Microscopy

WALTHAM, Mass., January 17, 2017 – Excelitas Technologies®, a global technology leader delivering innovative, customized photonic solutions, introduces SPCM-NIR, a Single Photon Counting Module specifically selected and performance-optimized for the near-infrared (NIR) wavelength spectrum. This NIR-spectrum enhanced device is designed to support long-range LIDAR, quantum communication and microscopy applications, as well as many others.

The Excelitas SPCM-NIR achieves enhanced red and NIR sensitivity while maintaining other performance parameters of Excelitas' standard SPCM-AQRH, such as outstanding uniformity, overload protection, temperature stability and linearity. It uses a specially selected silicon avalanche photodiode (SLiK) with peak single photon detection efficiency (PDE) at 780nm, typically better than 73%, while maintaining uniformity over a 180 µm diameter active area. The SPCM-NIR features gated output and a single 5V power supply and offers linearity over a high count rate.

Bernicy Fong, Product Specialist comments, "The Excelitas SPCM-NIR provides exceptional capabilities for a wide range of exciting, cutting-edge applications. As a technology leader in the industry, we are pleased to offer high NIR single photon detection efficiency to our customers to best meet their application needs."

Additional applications for the SPCM-NIR include photon correlation spectroscopy, astronomical observation, adaptive optics, optical range finding, particle sizing, ultra-sensitive fluorescence, and imaging.

With the SPCM-NIR, a maximum count rate can be sustained if the case temperature is maintained within specified limits. Its peak light intensity is 104 photons per pulse, with pulse width < 1 ns. Each module is supplied with test data indicating the module's actual dark count, dead time, pulse width, photon detection efficiency and linearity correction factor.

Excelitas' series of photon counting modules are designed and built to be fully compliant with the European Union Directive 2011/65/EU – Restriction of Hazardous Substances in Electrical and Electronic equipment (RoHS).

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About Excelitas Technologies

Excelitas Technologies Corp. is a global technology leader focused on delivering innovative, high-performance, market-driven photonic solutions to meet the lighting, detection and optical technology needs of global customers. From biomedical technology to research laboratory, safety and security, consumer products, semiconductor, energy and environment, industrial, defense and aerospace, Excelitas Technologies is committed to enabling our customers' success in their end-markets. Excelitas Technologies acquired Qioptiq in 2013 and now has approximately 5,500 employees in North America, Europe and Asia, serving customers across the world. Connect with Excelitas on Facebook, LinkedIn and Twitter.

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