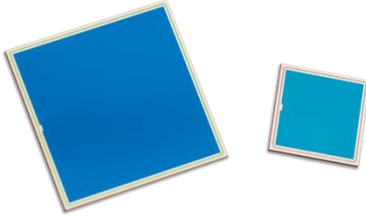




Excelitas Technologies Introduces Radon Detection VTH21 Series Photodiodes

New Low Capacitance Silicon Photodiode Chips Enable Optimal Alpha Particle Detection for Radon Gas Detection Applications



WALTHAM, Mass., September 14, 2022 – [Excelitas Technologies® Corp.](#), a leading industrial technology manufacturer focused on delivering innovative, market-driven photonic solutions, introduces its new [VTH21 Series](#) of photodiodes for radon detection. Offered in chip form for optimal alpha particle detection, Excelitas' low-capacitance VTH21 Series of silicon photodiodes provides high responsivity to radiation of interest, making the new photodiodes an ideal solution for radon gas detection and alpha particle detection.

Featuring a robust chip design in either a wafer pack or Mylar (preferred), these photodiodes are available in two different standard chip geometries including 5x5 mm ([VTH2110](#)) and 10x10 mm ([VTH2120](#)) large active area for maximum detection of low-level radiation with a spectral response between 400 nm – 1100 nm. Supplied as bare dies to maximize signal levels, the product's flexible geometry design can be tailored to customer's specific needs, providing maximum signal in system applications for alpha particle detection.

Features and benefits of the VTH21 Series of photodiodes include:

- Bare die for direct detection of alpha particles increases the absorption versus packaged devices to offer better performance
- Robust radiation-resistant design enables long-term operation in the field
- Optimized chip design for greater absorption of alpha particles enables higher performance systems
- Large area chip increases the detection probability in low signal environments and improves system performance
- Assembly compatible with conductive epoxy mount
- Customization is available
- RoHS compliant

"Excelitas is pleased to debut our new VTH21 Series of photodiodes for radon detection. Due to the series' robust chip design, the low capacitance silicon photodiodes provide high responsivity to radiation of interest supplied without a radiation absorbing window. As result, they provide a great option for design engineers working in the field of alpha particle detection instruments, enabling customers to integrate the photodiodes into their system at maximum signal levels with cost-efficient price points," said Denis Boudreau, product leader of Photon Detection Technologies at Excelitas.

The new VTH21 Series of photodiodes for radon detection will be featured at [Electronica](#) in München, Germany, November 15 – 18, 2022 (Excelitas Booth # 303, Hall B3). For additional



information, please visit the product webpage at: <https://www.excelitas.com/product-category/photodiodes-radon-detection>.

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About Excelitas Technologies

Excelitas Technologies® Corp. is a leading industrial technology manufacturer focused on delivering innovative, market-driven photonic solutions to meet the illumination, optical, optronic, sensing, detection and imaging needs of our OEM and end-user customers. Serving a vast array of applications across biomedical, scientific, semiconductor, industrial manufacturing, safety, security, consumer products, defense and aerospace sectors, Excelitas stands committed to enabling our customers' success in their many various end-markets. Our team consists of more than 7,500 professionals working across North America, Europe and Asia, to serve customers worldwide.

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