FOR IMMEDIATE RELEASE:

Excelitas Unveils Adhesive-Free LINOS Ultra-Low Outgassing Faraday Isolator for Laser Applications

New vacuum-compatible ultra-low outgassing solution extends laser system lifetime

Pittsburgh, Pa., May 28, 2025 – Excelitas®, the leading provider of advanced, life-enriching technologies that make a difference, serving global market leaders in the life sciences, advanced industrial, next-generation semiconductor and avionics sectors, introduces its new LINOS® Ultra-Low Outgassing Faraday Isolator, designed to extend laser system lifetimes by minimizing photo-contamination. Engineered with a patented, glue-free design, this isolator offers 2X lower outgassing than other low-outgassing versions and 50X lower outgassing than standard Faraday isolators.

Ideal for high-power laser applications, industrial solid-state systems (especially ultrashort pulsed or UV), semiconductor manufacturing, space applications, and high-vacuum environments, Excelitas' Ultra-Low Outgassing Faraday Isolator ensures unmatched system cleanliness and reliability. By eliminating adhesive components, it drastically reduces the risk of volatile organic contaminants that can degrade optical performance over time.

Key features and benefits include:

- **Patented Glue-Free Design**: Minimizes contamination risks for extended system longevity
- **Ultra-Low Outgassing**: Drastically reduces photo-contamination compared to standard isolators
- **Vacuum Compatibility**: Offers advantages for high-vacuum applications

"With the launch of our latest Ultra-Low Outgassing Faraday Isolator, Excelitas continues to push the boundaries of optical isolation technology," said Volker Melzer, Director, Product Management, Laser Technology at Excelitas. "Like our other LINOS Faraday Isolators, this new model delivers exceptional performance with best-in-class isolation and high transmission—ensuring reliability and longevity in even the most demanding environments. Furthermore, its innovative glue-free design significantly reduces outgassing and minimizes the risk of photo-contamination."

For more information about Excelitas' new Ultra-Low Outgassing Faraday Isolator, please visit https://www.excelitas.com/product/ultra-low-outgassing-faraday-isolator. See it on display at Excelitas Booth #110 in Hall B1 during Laser World of Photonics 2025, June 24 - 27, 2025 in Munich, Germany.

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About Excelitas
Excelitas is the leading provider of advanced, life-enriching technologies that make a difference, serving global market leaders in the life sciences, advanced industrial, next-generation semiconductor and avionics end markets. Headquartered in Pittsburgh, PA, USA, Excelitas is an essential partner in the design, development and manufacture of photonic technologies, offering leading-edge innovation in sensing, detection, imaging, optics and specialty illumination for customers worldwide.

Connect with Excelitas on LinkedIn, Facebook, X and Instagram, or visit our website at www.excelitas.com for more information.

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