



## Excelitas Technologies Debuts Medium-Power Faraday Isolator Series at SPIE Photonics West

*New XP-Series Isolators Combine High Optical Isolation with Low Impact on Beam Properties*



**WALTHAM, Mass., January 30, 2018** – [Excelitas Technologies® Corp.](http://www.excelitas.com), a global technology leader focused on delivering innovative, customized photonic solutions, introduces its new series of [Qioptiq Medium Power Faraday Isolators](#) at [SPIE Photonics West 2018](#) (Booth # 1031). The Extreme Laser Power (XP) Faraday Isolator design enables protection of high power lasers above typical 50W with high optical isolation and without impact on the beam properties due to advanced design and use of new materials.

Excelitas' XP-Series Isolators combine typical maximum optical isolation of 30dB with the lowest impact on beam properties. The series' innovative design is based on a new high-end, low-absorption magneto-optical material that ensures superior optical isolation and very stable laser beam properties compared to the common TGG material for average laser power levels in the range of 50W to 200W.

The XP-Series Isolators' unique material results in a reduced thermal lens effect to maintain a collimated laser beam with almost no impact on  $M^2$  (M-squared) value. No additional compensation optics are required. It affords reduced depolarization for high optical isolation at high laser power and no significant drop of isolation with increasing laser power. It further provides access to blocked beams with optically contacted polarizers. A half wave plate option is available.

The compact design allows easy integration into laser systems or optical setups. The XP-Series Isolators are suited for high power lasers needing protection from back reflection to ensure stable operation and optical damage protection.

"Our new XP-Series Faraday Isolators are ideally suited for use with high power lasers to protect them from damage or power instability," said Dr. Volker Melzer, Director of Product Management Laser Technology. "They will be extremely useful for material processing applications such as marking, cutting, welding, and so forth."

The new Excelitas XP-Series Medium Power Faraday Isolators will be displayed for the first time at SPIE Photonics West 2018 Excelitas Booth # 1031, January 30 – February 1, 2018 in San Francisco, CA. For more information, visit [www.excelitas.com](http://www.excelitas.com).

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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 sensing & imaging, 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 6,000 employees in North America, Europe and Asia, serving customers across the world. Connect with Excelitas on [Facebook](#), [LinkedIn](#) and [Twitter](#).

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