

# iso-lite<sup>®</sup> - Compact Rotator and Isolators

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Laser users and designers are becoming increasingly aware of the detrimental effects of back reflections in their complex optical systems. Stray beams, instability and even component damage can result from these undesirable reflections. To combat unwanted back reflections, an optical isolator can be used. Isolators act as a one way "light valves" that permit light propagation in only one direction. SYNOPTICS offers a complete line of Faraday Rotators and Isolators for research or OEM applications.

Our new line of ultra-compact, high performance Faraday Rotators and Isolators utilize a technological breakthrough which provides enhanced device performance with a significant reduction in footprint and no beam displacement. This new technology offers a factor of 50% - 70% reduction in size, weight and optical path length when compared to conventional designs. In addition, improved isolation results from higher radial and transverse uniformity across the aperture.

## Advantages Over Conventional Design:

- Significant volume reduction
- Significant weight reduction
- Decrease in optical path length
- Enhanced transverse and radial uniformity
- Higher isolation
- Lower wavefront distortion

Several standard sizes and configurations are offered for wavelengths ranging from 500 nm - 1.1  $\mu$ m.

Call your local Sales Representative for further information.

Specifications and information are subject to change without prior notice.  
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