



Electro-Optics Technology, Inc.

Innovative High Quality Laser Solutions

Optical Isolators 1525 nm to 1575 nm

****PRELIMINARY****



EOT's 1525 nm to 1575 nm optical isolators rotate the plane of polarized light 45° in the forward direction and an additional 45° of non-reciprocal rotation in the reverse direction while maintaining the light's linear polarization. An optical isolator shields lasers from destabilizing and potentially destructive back-reflected light from interfaces on downstream optics or back-scattered ASE from optical amplifiers.

Based on high Verdet constant, low absorption coefficient rotating material, and developed to work with up to 20 W of average input power in the 1525 nm to 1575 nm wavelength range, these EOT isolators provide the ultimate protection for polarized lasers.

FEATURES

- Completely passive; no tuning required
- All isolators contain escape ports; all rejected beams are deflected at 90°.

OPTIONS

- Optional waveplate for manipulation of polarization
- Customization available

APPLICATIONS

- Mapping
- LIDAR
- Medical & Biosciences
- Chirped Pulsed Amplification (CPA)



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SPECIFICATIONS

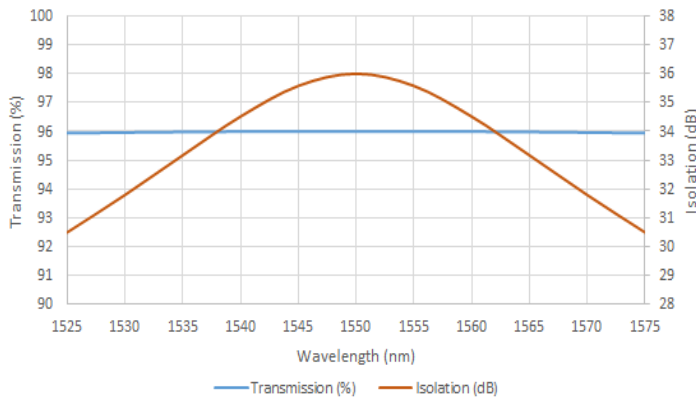
	Isolator ^a
Transmission at 22 °C	>92%
Isolation at 22 °C	>30 dB
Pulsed Damage Threshold	1 J/cm ² at 10 ns
Power Handling	20 W

Product specifications are subject to change. All products are RoHS compliant.

^a Escape ports should be used if rejected light is >1 W or 0.15 J/cm² at 10 ns or forward light is >25 W. All stray beams should be properly terminated.

NOTE: Return loss-free working distance ≥ 25 mm for a collimated beam

Typical 1550nm Isolator Performance



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