



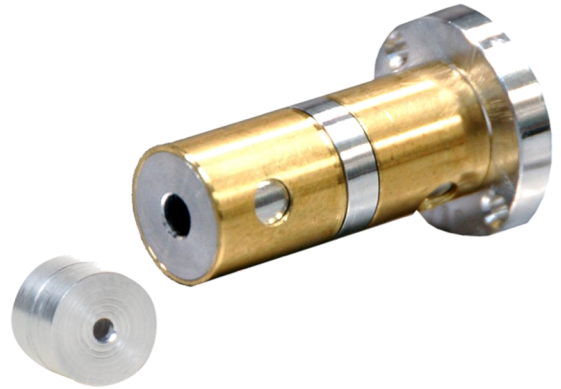
Electro-Optics Technology, Inc.

Innovative High Quality Laser Solutions

Low Power Faraday Rotators & Isolators 1050 nm to 1080 nm

EOT's 1050 nm to 1080 nm Low Power Faraday Rotators 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. When placed between crossed polarizers, a Faraday rotator becomes an optical isolator. An optical isolator provides high transmission in the forward direction and strongly attenuates any light traveling in the reverse direction effectively protecting seed sources from the deleterious effects of back reflections.

EOT's 1050 nm to 1080 nm Low Power Isolators can be ordered with either dichroic glass polarizers or with polarizing beam splitter cubes. If protecting a seed source from back reflections from a Q-switched laser, EOT recommends using polarizing beam splitter cubes due to their ability to withstand high pulse energies. Two isolators can be used in series if 60 dB isolation is required to assure back reflections do not cause frequency instability from a single frequency single seed laser.



SPECIFICATIONS

	Rotator	Isolator	
Polarizer Type	N/A	Polarcor	PBS Cube
Clear Aperture	1.5 mm	1.5 mm	1.5 mm
Transmission at 22 °C	≥78%	≥75%	≥75%
Isolation at 22 °C	N/A	≥30 dB	≥30 dB
Damage Threshold	8 J/cm ² at 10 ns or 20 ns	500 mW CW	1 MW/cm ² at 10 ns

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

FEATURES

- Completely passive; no tuning required
- Compact size

OPTIONS

- Choice of dichroic glass polarizers or polarizing beam splitter cube polarizers
- Customization available

APPLICATIONS

- Laser Pumping
- Amplification
- Protection of single frequency injection seed source