

Rotatable Faraday Isolator Series with 3.5 mm Aperture, RO Series

Leveraging extensive experience and innovations in optical solutions for lasers and laser systems for industrial, medical and semiconductor applications, the new Qioptiq rotatable Faraday Isolators protect lasers and laser oscillators from back reflection, helping ensure stable operation and prevent optical damage. These Isolators are ideally suited for integration in laser systems in cases where the output polarization orientation is neither horizontal nor perpendicular.

The new design is based on a round Isolator housing design and includes a mounting bracket. The new rotatable Faraday Isolator provides easy alignment of the Isolator input polarization according to the output polarization of the laser system.

Features

- Single stage Faraday Isolator
- Rotatable Isolator body (for arbitrary input polarization)
- Compact design
- Mounting option for half-wave plate at the optical output
- Aperture: \varnothing 3.5 mm
- Isolation \geq 32 dB (typically 38-42 dB)
- Mounting: via mounting bracket
- Damage threshold 8.5 J/cm² at 8 ns 1064 nm

Custom Options

- Custom wavelengths and specifications on request
- Available with integrated half-wave plate on request

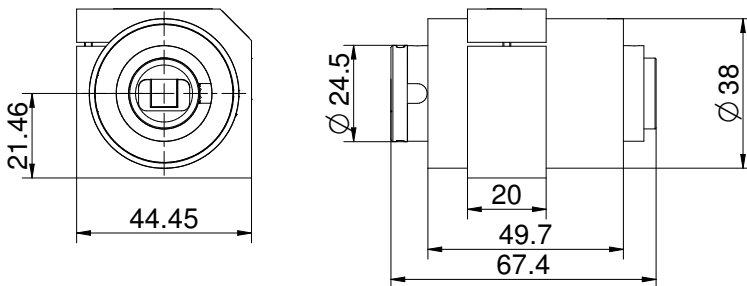


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Product	Isolation (dB)	Transmission at design wavelength (%)	Transmission at boundary wavelength (%)	Tuning range (typical) (nm)	Aperture \varnothing (mm)	Dimensions (mm)	Part Number
FI-1030-3SC RO	≥ 32	≥ 94	≥ 85	1025-1064	3.5	45x43x67	8451-101-002-53

Product	Damage threshold @ 1.2 ps pulses (J/cm ²)	Damage threshold @ 8 ns pulses (J/cm ²)	Part Number
FI-1030-3SC RO	0.6 @ 1060 nm	8.5 @ 1060 nm	8451-101-002-53

Subject to technical changes



FI-1030-3SC RO WP (including half-wave plate)

For technical information contact:

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