

NEW

Low Outgassing Isolators with 3.5 mm Aperture, LO Series

Our extensive experience and innovations in optical solutions for semiconductor manufacturing have led to the first ever Low Outgassing Faraday Isolators. These Isolators are ideally suited for integration in encapsulated and high-power laser systems in the wavelength range from the violet to the NIR. The unique design emits 25-times less volatile organic compounds (VOCs) than conventionally produced isolators.

Optically contacted, fused-silica input and output polarizers ensure high damage threshold while delivering highest isolation of 33 dB and outstanding transmittance of 95% in the NIR and 86% in the violet. They feature a 3.5 mm clear aperture and a patented magnet system, which enables an exceptionally compact design footprint.

Features

- Emitting 25-times less volatile organic compounds (VOC) than conventionally produced isolators
- Sophisticated, low outgassing design and assembly
- Isolation ≥ 33 dB, typically 38-42 dB over the entire wavelength range
- Extremely compact footprint
- Optically contacted polarizers for high damage threshold and long lasting quality
- Rare earth magnet
- Access to blocked beam
- Stable and flexible mounting via four M2 threaded holes on the bottom side and backside

Custom Options

- Custom wavelengths and specifications on request
- Available with integrated waveplate on request



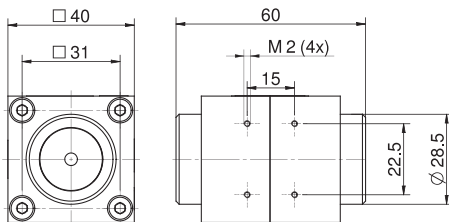
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Item Title	Isolation, guaranteed/ typical (dB)	Transmission at design wavelength (%)	Transmission at boundary wavelength (%)	Tuning range typical (nm)	Aperture \emptyset (mm)	Dimensions (mm)	Damage threshold @ 1.2 ps pulses (J/cm^2)	Damage threshold @ 8 ns pulses (J/cm^2)
FI-405-3SC LO	> 33/38-42	≥ 86	≥ 86	400 - 410	3.5	40x40x60	0.2 @ 405 nm	2.6 @ 488 nm
FI-1030-3SC LO	> 33/38-42	≥ 95	≥ 90	1025 - 1064	3.5	40x40x60	0.6 @ 1030 nm	8.2 @ 1030 nm
FI-1060-3SC LO	> 33/38-42	≥ 95	≥ 90	1030 - 1090	3.5	40x40x60	0.6 @ 1060 nm	8.5 @ 1060 nm

Subject to technical changes

Item Title	Product-No.
FI-405-3SC LO	845110900026
FI-1030-3SC LO	845110100230
FI-1060-3SC LO	845110100231

Dimensions



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