

TUNABLE OPTICAL ISOLATOR FOR 2.1 MICRON OPERATION

DESCRIPTION

ISOWAVE's tunable optical isolator is based on a Faraday rotator made of bulk Yttrium Iron Garnet single crystal. Its many features and flexible design offer superior performance with lasers in the 2000-2150 wavelength range.

The cylindrical design allows easy orientation to the user's plane of polarization. Removable end caps allow for easy cleaning of the polarizer surfaces.

This model adjusts to provide for fine tuning without degradation of performance. Additionally, The tuning mechanism is designed to be immune to inadvertent de-tuning of the isolator.

FEATURES

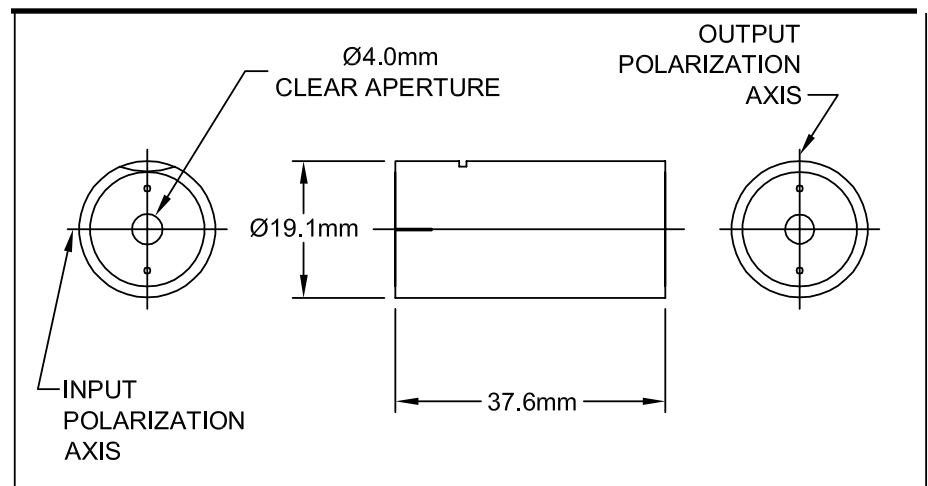
- High Isolation
- Easily Tuned
- Low Insertion Loss

APPLICATIONS

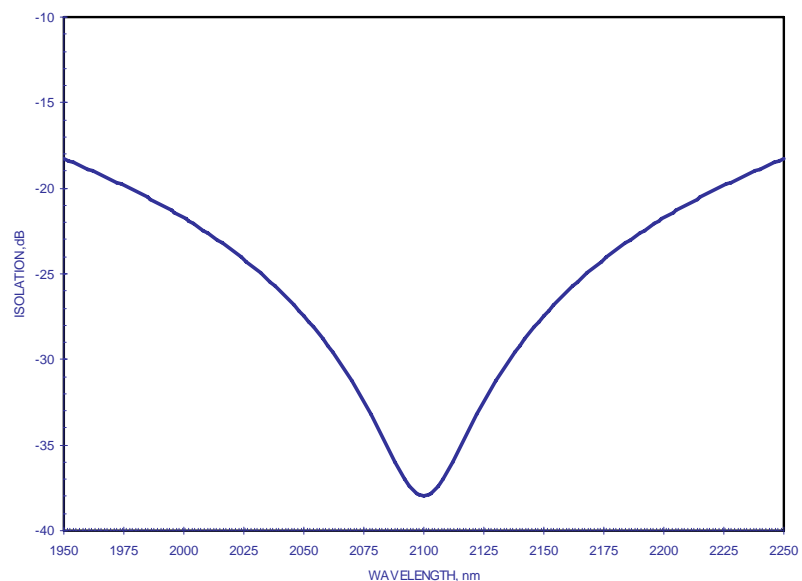
- Optical Test Measurement
- Tunable Laser Modules
- Optical Instrumentation

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OUTLINE DRAWING



THEORETICAL ISOLATION CURVE



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SPECIFICATIONS

	I-21-B
Wavelength Range	2000-2150nm
Peak Isolation (typical)	$\geq 35\text{dB}$
Isolation (minimum)	30dB
Insertion Loss (typical)	$\leq 0.5\text{dB}$
Insertion Loss (maximum)	$\leq 1.0\text{dB}$
Diameter (nominal)	18.8mm
Length (nominal)	38.1mm
Clear Aperture	2 or 4mm
Storage Temperature	0 to + 70°C
Polarization of Input	Adjustable
Polarization of Output	45° (nominal) to input
Maximum Power Density	300W/cm ²

For custom configurations or specifications, please contact an ISOWAVE sales engineer.



ORDERING INFORMATION

I – 2 1 – B

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