

LARGE APERTURE FREE SPACE OPTICAL ISOLATORS



DESCRIPTION

ISOWAVE's tunable, dual stage models are available in a variety of wavelengths. These isolators are designed for use with any tunable or single line source where high isolation is required. ISOWAVE offers these models with medium power, calcite Glan Taylor polarizers. Any unit may also be supplied without polarizers as a Faraday Rotator.

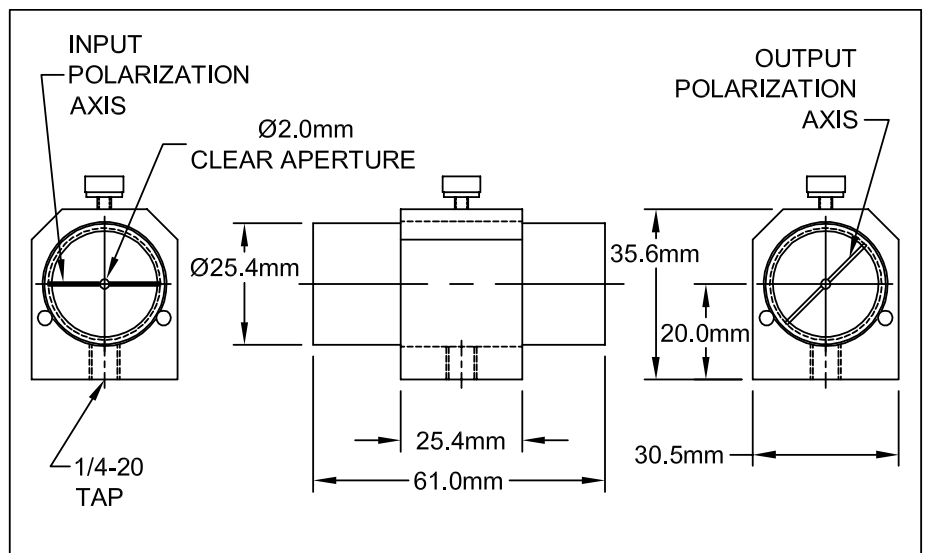
FEATURES

- Superior Performance
- Mounting Collar Included
- High & Medium Power Options

APPLICATIONS

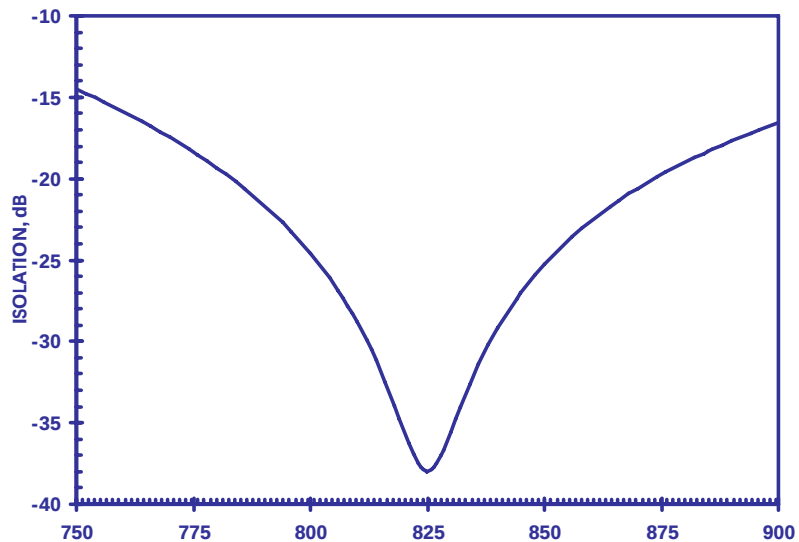
- Optical Test Measurement
- Tunable Laser Modules
- Optical Instrumentation

OUTLINE DRAWING



THEORETICAL ISOLATION CURVE

Model # I-80-2 tuned at 825nm



ISOWAVE



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SPECIFICATIONS

	I-80-T4	I-80-2	I-80-U2	I-80-U4
Isolation (typical)	≥40dB		≥65dB	
Isolation (minimum)	35dB		60dB	
Insertion Loss (typical)				
at 780nm	0.8dB		1.6dB	
at 800nm	0.7dB		1.4dB	
at 830nm	0.6dB		1.2dB	
Insertion Loss (maximum)	≤0.8dB		≤1.6dB	
Clear Aperture	4mm	2mm		4mm
Tuning Range	750-900nm		N/A	
Operating Temperature	0 to + 60°C			
Storage Temperature	-20 to +60°C			
Optical Path Length	94.0 mm	75.0mm	112.0mm	133.0mm
Housing Length	77.0mm	61.0mm	83.8mm	99.0mm
Housing Diameter	34.9mm	25.4mm	34.9mm	
Polarization of Input	Indicated on Housing			
Polarization of Output	45° to Input		Parallel to Input	

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

ORDERING INFORMATION

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- 2=2mm clear aperture
- U2=Ultra High Performance, 2mm clear aperture
- T4=Tunable, 4mm clear aperture
- U4=Ultra High Power. 4mm clear aperture

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