

# 500nm-900nm TUNABLE OPTICAL ISOLATORS

## DESCRIPTION

ISOWAVE's 500nm-900nm Tunable Optical Isolators offer high isolation and low insertion loss. These isolators are designed for use with any tunable or single line source where wavelength changes are infrequent, but possible. To maximize performance for any specific wavelength or temperature, these devices are easily adjusted with a lockable tuning mechanism.

ISOWAVE offers a choice of medium power calcite Glan Taylor polarizers, or high power calcite Glan Taylor polarizers with dual escape ports. Any unit may also be supplied without polarizers as a Faraday rotator.

## FEATURES

- Large Clear Aperture
- High Isolation
- Low Insertion Loss
- Easily Tuned
- Mounting Collar Included
- High Power Option

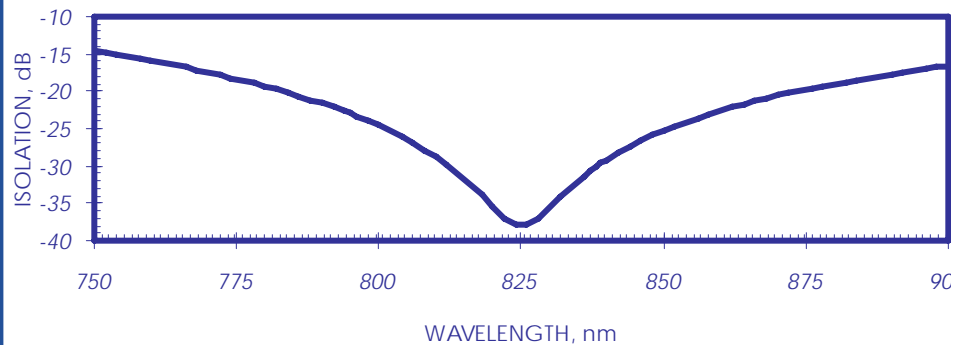
## APPLICATIONS

- Semiconductor Laser Modules
- Optical Test Instrumentation
- Optical Instrumentation

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## THEORETICAL ISOLATION CURVE

Model # I-80T-5 tuned at 825nm



## ORDERING INFORMATION

I — — T 5

- 56=500-600nm
- 67=600-700nm
- 80=700-900nm

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## SPECIFICATIONS

	I-56T-5	I-67T-5	I-80T-5
Wavelength Range	500-600nm	600-700nm	700-900nm
Center Wavelength (typical)	543nm	633 or 670nm	780-850nm
Isolation (typical)	≥40dB		
Isolation (minimum)	38dB		
Insertion Loss (typical)	≤0.5dB		
Insertion Loss (maximum)	0.7dB		
Clear Aperture	5mm		
Polarization of Input	Indicated on Housing		
Optical Path Length			
Rotator	91.0mm	92.4mm	94.9mm
Low Power	118.4mm	119.6mm	122.2mm
High Power	137.4mm	138.6mm	141.2mm
Housing Length			
Rotator	86.4mm		
Medium Power	106.0mm		
High Power	125.0mm		
Housing Diameter	34.9mm		
Polarizer Type			
Medium Power	Glan Taylor		
High Power	Glan Taylor with Dual Escape Ports		

<sup>1</sup>Wavelengths from 900-1070nm are also available.

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

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