

LARGE APERTURE FREE SPACE OPTICAL ISOLATORS



DESCRIPTION

Based on a Faraday Rotator made of Terbium Gallium Garnet single-crystal (TGG), these isolators provide superior performance with lasers in the 980 and 1064nm wavelength ranges. Units include a mounting collar for easy bench mounting and alignment to the polarization plane of a laser.

These models are available in low, medium and high power versions for continuous-wave and pulse applications. The high power versions use calcite Glan Taylor polarizers with two AR coated escape ports. The medium power option uses standard Glan Taylor polarizers. For low power applications, a special high-performance glass polarizer is offered.

FEATURES

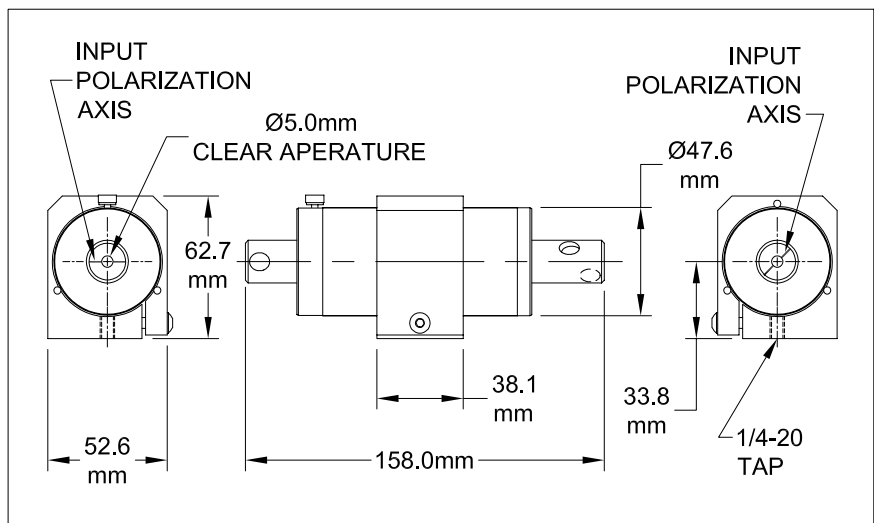
- High Isolation
- Low Insertion Loss
- Various Power Options
- Easily Aligned to Source
- Easily Tuned
- 2 and 5mm Clear Aperture

APPLICATIONS

- Semiconductor Laser Modules
- Optical Test Instrumentation
- Optical Instrumentation

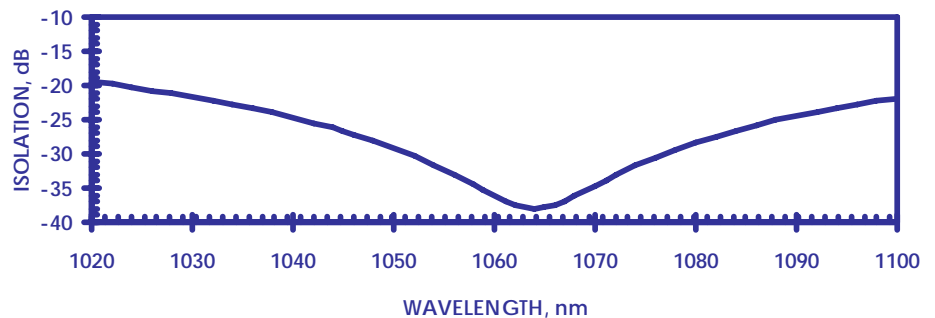
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OUTLINE DRAWING



THEORETICAL ISOLATION CURVE

Model # I-106T-5 tuned at 1064nm



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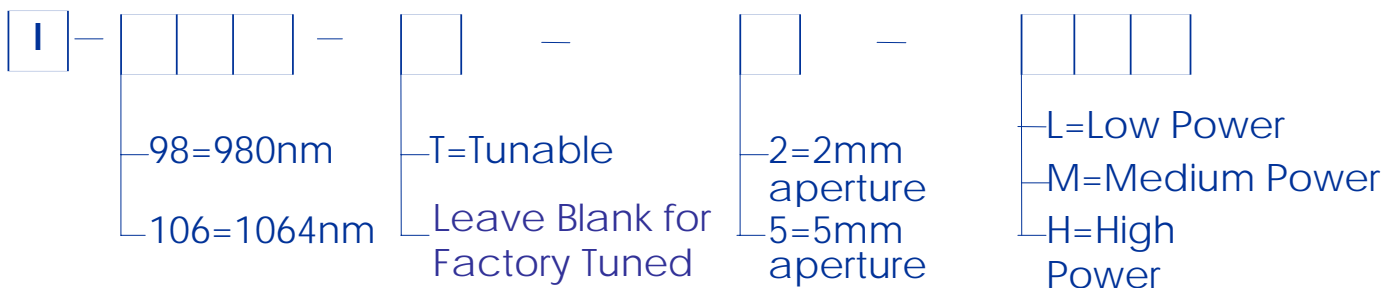
SPECIFICATIONS

	I-98-2	I-106-2	I-98T-5	I-106T-5
Isolation (typical)	≥40dB			
Isolation (minimum)	35dB			
Insertion Loss (typical)	≤0.4dB		≤0.6dB	≤0.5dB
Insertion Loss (maximum)	0.6dB		0.9dB	0.7dB
Clear Aperture	2mm		5mm	
Tunable	Factory Tuned ¹		Yes	
Tuning Range	970-990nm	1040-1090nm	950-1030nm	1040-1090nm
Polarization of Input	Indicated on Polarizer Housing			
Polarization of Output	45° from Input			
Optical Path Length				
Low Power	110.1mm	127.1mm	139.7mm	
Medium Power	154.1mm	134.4mm	147.0mm	
High Power	181.0mm	187.0mm	199.6mm	
Housing Diameter	34.9mm		60.3mm	
Polarizer Type	Dichroic Glass Glan Taylor Glan Taylor with Dual Escape Ports			
Low Power				
Medium Power				
High Power				

¹ Specify desired wavelength for factory tuned.

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

ORDERING INFORMATION



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