

MICRO MINI OPTICAL ISOLATORS



DESCRIPTION

ISOWAVE's MicroMini Optical Isolators offer new opportunities for Laser Diode manufacturers requiring an in-package ultra high performance micro-mini isolator. The MicroMini isolators incorporate highly efficient optical components into a micro-miniature package.

ISOWAVE's double isolator offers the highest peak isolation available and includes the same polarization axis for input and output light.

ISOWAVE's semi-double isolator includes one polarizer between two Faraday rotators, offering superior isolation over wide ranges of temperature and wavelength.

FEATURES

- Low Insertion Loss
- High Isolation
- Micro-Miniature Size
- Broad Bandwidth
- Wide Temperature Range
- Polarization Alignment

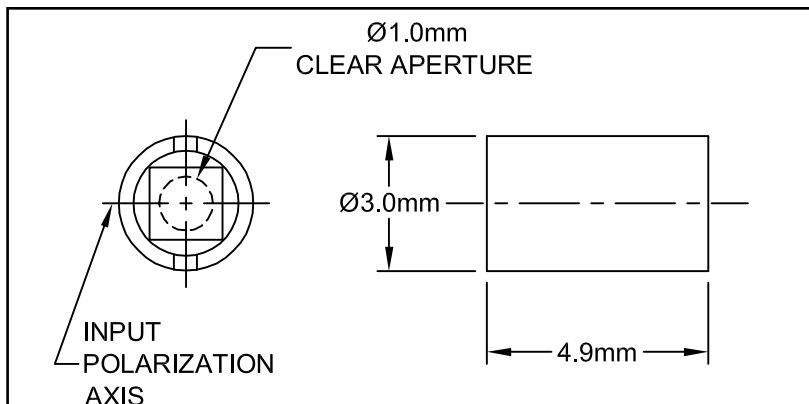
APPLICATIONS

- Semiconductor Laser Modules
- Tunable Laser Modules
- Small Form Factor Laser Modules

64 Harding Avenue
Dover, NJ 07801
t 973.328.7000
f 973.328.7036
info@isowave.com
www.isowave.com

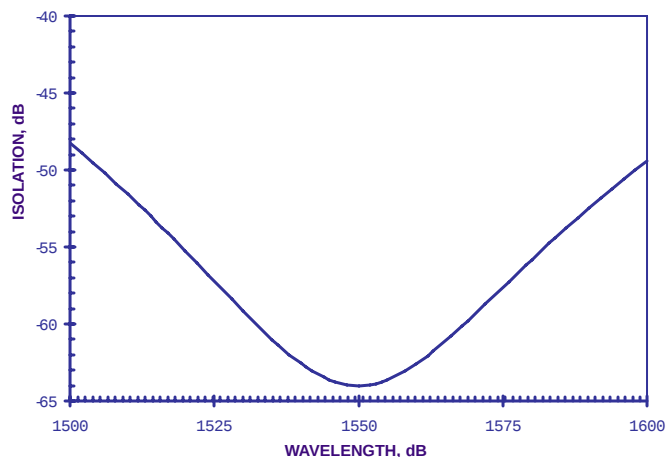
OUTLINE DRAWING

Model # I-15-MM-SD-4



THEORETICAL ISOLATION CURVE

Model # I-15-MM-SD-4



ISOWAVE



SPECIFICATIONS

	MM	LM	MM-SD	LM-SD	MM-TD	LM-TD
Wavelength	1310nm 1550nm		1310nm 1550nm		1310nm 1550nm	
Isolation (λ_c at 23°C)	$\geq 38\text{dB}$		$\geq 55\text{dB}$		$\geq 63\text{dB}$	
Isolation ($\lambda_c \pm 20\text{nm}$ and over operating temperatures)	$\geq 20\text{dB}$		$\geq 45\text{dB}$		$\geq 45\text{dB}$	
Insertion Loss (typical)	$\leq 0.2\text{dB}$		$\leq 0.4\text{dB}$		$\leq 0.5\text{dB}$	
Insertion Loss over wavelength	$\leq 0.4\text{dB}$		$\leq 0.6\text{dB}$		$\leq 0.7\text{dB}$	
Clear Aperture (mm)	1.0	1.4	1.0	1.4	1.0	1.4
Bandwidth	$\pm 20\text{nm}$					
Diameter (nominal) (mm)	3	4	3	4	3	4
Component Tilt Option	0° or 4° (as specified)					
Length:						
0° tilt	$\leq 2.5\text{mm}$		$\leq 4.7\text{mm}$		$\leq 6.75\text{mm}$	
4° tilt	$\leq 3.0\text{mm}$		$\leq 5.0\text{mm}$		$\leq 7.0\text{mm}$	
Operating Temperature	-20° to +70°C		0° to +70°C			
Storage Temperature	-40° to +85°C					

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

ORDERING INFORMATION

I	—	—	—	—
13=1310nm	MM=Micro Mini	SD=Semi Double	0=0° tilt option	
15=1550nm	LM=Large Mini	TD=True Double	4=4° tilt option	

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