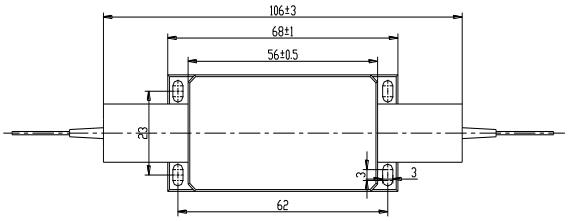
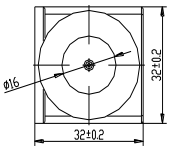
Polarization Maintaining Optical Isolator 980nm

The 980nm Polarization Maintaining (PM) Optical Fiber Isolator is an in-line miro-optic component allows light to be transmitted only in the forward direction while blocking the backward transmittion. It's built with PM Panda fiber and designed to maintain the polarization of the input light with high extinction ratio. The PM isolators are commonly used to protect lasers or amplifiers against back-reflected light. High power 980nm PM isolator availible upon request.

Features

High Isolation
High Extinction Ratio
High Power Available upon Request





Applications

Fiber Amplifier
Fiber Laser
Fiber Sensor
High Speed Optical Communications
Instrumentations

Performance Specification

Parameter	Value	Unit
Center Wavelength	980 or customized	nm
Bandwidth	±10	nm
Typ. Peak Isolation	35	dB
Min. Isolation at 23℃	25	dB
Typ. Insertion Loss at 23℃	0.6	dB
Max. Insertion Loss at -5 to 50℃	1.0	dB
Min. Extinction Ratio for Fast Axis Blocked Type	22	dB
Min. Extinction Ratio for Both Axis Working Type	20	dB
Min. Return Loss	50	dB
Max. Optical Power (Continuous Wave)	500 (higher power available upon request)	mW
Max. Tensile Load	5	N
Fiber Type	PM 980 Panda Fiber on Input & Output Port	
Operating Temperature	-5 to +50	℃
Storage Temperature	-40 to +85	℃
Package Dimension		mm

Note

** For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower and ER will be 2dB lower.*
** The PM fiber and the connector key are aligned to the slow axis.*

Ordering Information

PMI-AAA-B-CC-DD-E

AAA	B	CC	DD	E
Wavelength	**Fiber Jacket**	**Fiber Length**	**Connector**	**Working Axis**
980 - 980nm SSS - Specify	B - 250um Bare Fiber L - 900um Loose Tube	05 - 0.5m 08 - 0.8m 10 - 1.0m 15 - 1.5m SS - Specify	NE - None FA - FC/APC FP - FC/PC SA - SC/APC SP - SC/PC LA- LC/APC LP - LC/PC SS - Specify	F - Fast Axis Blocked B - Both Axis Operating

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