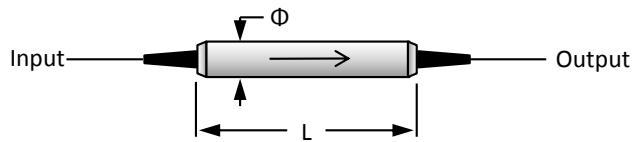


Polarization Maintaining Optical Isolator 1550nm

The 1550nm Polarization Maintaining (PM) Optical Fiber Isolator is an in-line micro-optic component that allows light to be transmitted only in the forward direction while blocking the backward transmission. 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. Dual stage isolator means two single stage isolators are packaged into one compact housing. High power 1550nm PM isolator available upon request.



Features

- High Isolation
- High Extinction Ratio
- Telcordia Test Compliant
- High Power Available upon Request

Applications

- Fiber Amplifier
- Fiber Laser
- Fiber Sensor
- High Speed Optical Communications Instrumentations

Performance Specification

Parameter	Value	Unit	
Center Wavelength	1310, 1480, 1550 or customized	nm	
Bandwidth	±20	nm	
Stage	Single Stage	Dual Stage	
Typ. Peak Isolation	42	58	dB
Min. Isolation at 23°C	28	48	dB
Typ. Insertion Loss at 23°C	0.4	0.5	dB
Max. Insertion Loss at -5 to 50°C	0.55	0.65	dB
Min. Extinction Ratio for Fast Axis Blocked Type	24		dB
Min. Extinction Ratio for Both Axis Working Type	20		dB
Min. Return Loss	55		dB
Max. Optical Power (Continuous Wave)	300 (higher power available upon request)		mW
Max. Tensile Load	5		N
Fiber Type	PM Panda Fiber on Input & Output Port		
Operating Temperature	-5 to +50		°C
Storage Temperature	-40 to +85		°C
Package Dimension	Φ5.5×L35		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-AAAA-B-C-DD-EE-F

AAAA	B	C	DD	EE	F
Wavelength	Stage	Fiber Jacket	Fiber Length	Connector	Working Axis
1310 - 1310nm	S - Single Stage	B - 250um Bare	05 - 0.5m	NE - None	F - Fast Axis
1480 - 1480nm	D - Dual Stage	Fiber	08 - 0.8m	FA - FC/APC	Blocked
1550 - 1550nm		L - 900um Loose	10 - 1.0m	FP - FC/PC	B - Both Axis
SSSS - Specify		Tube	15 - 1.5m	SA - SC/APC	Operating
			SS - Specify	SP - SC/PC	
				LA - LC/APC	
				LP - LC/PC	
				SS - Specify	