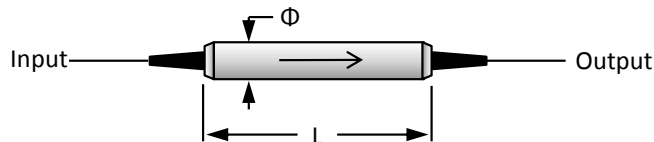


Polarization Maintaining Fiber Isolator 1650nm

The 1625, 1650nm Polarization Maintaining (PM) 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.



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	1625, or 1650		nm
Bandwidth	±10		nm
Stage	Single Stage	Dual Stage	
Typ. Peak Isolation	22	45	dB
Min. Isolation at 23°C	18	35	dB
Typ. Insertion Loss at 23°C	0.7	0.8	dB
Max. Insertion Loss at -5 to 50°C	0.9	1.0	dB
Min. Extinction Ratio for Fast Axis Blocked Type	20		dB
Min. Extinction Ratio for Both Axis Working Type	18		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 Panda Fiber on Input & Output Port		
Operating Temperature	-5 to +70		°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
1625 - 1625nm	S - Single Stage	B - 250um Bare Fiber	05 - 0.5m	NE - None	F - Fast Axis Blocked
1650 - 1650nm	D - Dual Stage	L - 900um Loose Tube	08 - 0.8m	FA - FC/APC	B - Both Axis Operating
SSSS - Specify			10 - 1.0m	FP - FC/PC	
			15 - 1.5m	SA - SC/APC	
			SS - Specify	SP - SC/PC	
				LA - LC/APC	
				LP - LC/PC	
				SS - Specify	