

## 1780nm PM Fiber Optic Isolator

1780nm Polarization Maintaining (PM) Optical Isolator is a fiber passive component built with PM fiber, it allows light signal to be delivered in one forward direction and avoid the back reflection light, it's widely used in amplifier system, fiber optic sensor system to protect the light source and lower down the optical signal noise.

### Application:

Fiber Optic Amplifier  
Fiber Optic Sensor  
Fiber Laser  
Lab And Research

### Features:

High Extinction Ratio  
High Isolation  
Low Insertion Loss  
High Reliability



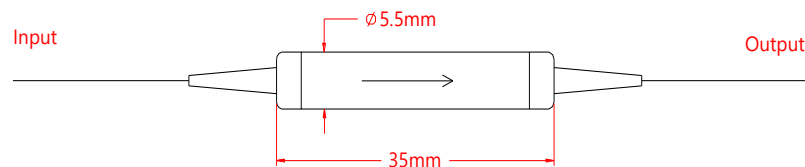
### Specification:

Parameter	Symbol	Value	Unit
Center Wavelength	$\lambda$	1780	nm
Bandwidth	BW	$\pm 10$	nm
Typ. Insertion Loss	IL	1.5	dB
Max. Insertion Loss	IL	1.8	dB
Typ. Peak Isolation	Iso	32	dB
Min. Isolation	Iso	28	dB
Min. Extinction Ratio	ER	18	dB
Min. Return Loss	RL	50	dB
Max. Optical Power (CW)	P	500	mW
Max. Tensile Load		5	N
Fiber Type		PM Panda fiber	-
Operating Temperature	T	-5~50	°C
Storage Temperature	T	-40~85	°C
Package Dimension		$\Phi 5.5 \times L35$	mm

Notice: Above specifications are tested at center wavelength without connector in room temperature @23°C.

For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower, ER will be 2dB lower, slow axis is default aligned to the connector key.

### Drawing:



### Ordering Information (Part Number):

PMISO-**WWW**-**A**-**J**-**LL**-**CC**

<b>WWW</b>	<b>A</b>	<b>J</b>	<b>LL</b>	<b>CC</b>
Wavelength	Working Axis	Fiber Jacket	Fiber Length	Connector
1700 - 1700nm	F - Fast Axis Blocked Slow Axis Working	B - 250um Bare Fiber	05 - 0.5m	NE - None
1720 - 1720nm		9 - 900um Loose Tube	10 - 1.0m	FA - FC/APC
1750 - 1750nm	B - Both Axes Working	2 - 2.0mm Loose Tube	15 - 1.5m	FU - FC/UPC
1760 - 1760nm		3 - 3.0mm Loose Tube	20 - 2.0m	SA - SC/APC
1780 - 1780nm		SS - Specify		SU - SU/APC
SSSS - Specify				LA - LC/APC
				LU - LC/UPC
				SS - Specify