

1450nm PM Fiber Optic Isolator

1450nm 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



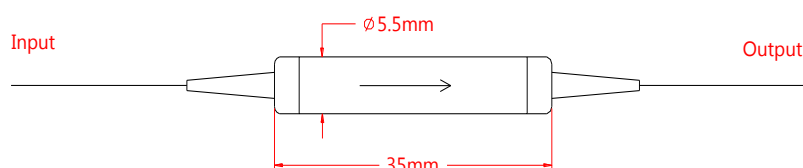
Specification:

Parameter	Symbol	Value		Unit
Center Wavelength	λ	1450		nm
Bandwidth	BW	± 20		nm
Stage		Single Stage	Dual Stage	-
Typ. Insertion Loss	IL	0.4	0.5	dB
Max. Insertion Loss	IL	0.6	0.7	dB
Typ. Peak Isolation	Iso	42	58	dB
Min. Isolation	Iso	28	48	dB
Min. Extinction Ratio for Fast Axis Blocked	ER	22		dB
Min. Extinction Ratio for Both Axes Working	ER	20		dB
Min. Return Loss	RL	55		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 - S - A - J - LL - CC					
WWW	S	A	J	LL	CC
Wavelength	Stage	Working Axis	Fiber Jacket	Fiber Length	Connector
1310 - 1310nm	S - Single Stage	F - Fast Axis Blocked	B - 250um Bare Fiber	05 - 0.5m	NE - None
1450 - 1450nm	D - Dual Stage	Slow Axis Working	9 - 900um Loose Tube	10 - 1.0m	FA - FC/APC
1480 - 1480nm		B - Both Axes Working	2 - 2.0mm Loose Tube	15 - 1.5m	FU - FC/UPC
1550 - 1550nm			3 - 3.0mm Loose Tube	20 - 2.0m	SA - SC/APC
				SS - Specify	SU - SU/APC
					LA - LC/APC
					LU - LC/UPC
					SS - Specify