

1870nm PM Fiber Optic Isolator

1870nm PM Fiber Optic 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. High Power version is available upon request.

Application:

Fiber Optic Amplifier
Fiber Optic Sensor
Fiber Laser
Lab And Research

Features:

High Extinction Ratio
High Isolation
Low Insertion Loss
High Reliability



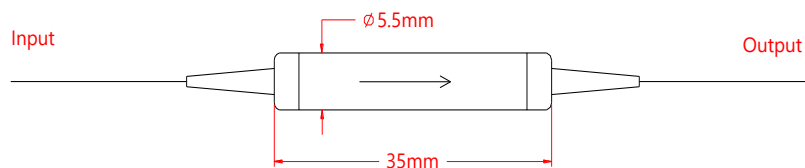
Specification:

Parameter	Symbol	Value	Unit
Center Wavelength	λ	1870	nm
Bandwidth	BW	± 10	nm
Typ. Insertion Loss	IL	1.5	dB
Max. Insertion Loss	IL	1.8	dB
Typ. Peak Isolation	Iso	25	dB
Min. Isolation	Iso	20	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	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				
WWW	A	J	LL	CC
Wavelength	Working Axis	Fiber Jacket	Fiber Length	Connector
1850 - 1850nm	F - Fast Axis Blocked Slow Axis Working B - Both Axes Working	B - 250um Bare Fiber	05 - 0.5m	NE - None
1860 - 1860nm		9 - 900um Loose Tube	10 - 1.0m	FA - FC/APC
1870 - 1870nm		2 - 2.0mm Loose Tube	15 - 1.5m	FU - FC/UPC
1890 - 1890nm		3 - 3.0mm Loose Tube	20 - 2.0m	SA - SC/APC
SSSS - Specify			SS - Specify	SU - SU/APC
				LA - LC/APC
				LU - LC/UPC
				SS - Specify