

1870nm Polarization Insensitive Optical Isolator

1870nm Polarization Insensitive Optical Isolator is a fiber passive component built with faraday crystal, it allows light signal to be delivered in one forward direction and avoid the back reflection light, it's widely used in Fiber Laser 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 Laser
Fiber Optic Sensor
Testing System
Lab & Research

Features:

High Isolation
Low PDL
Low Insertion Loss
High Reliability



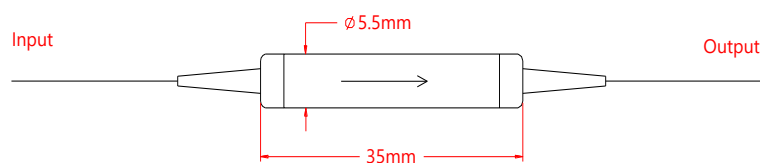
Specification:

Parameter	Symbol	Value		Unit
Center Wavelength	λ	1870		nm
Bandwidth	BW	± 15		nm
Stage		Single Stage	Dual Stage	-
Typ. Insertion Loss	IL	0.8	0.9	dB
Max. Insertion Loss	IL	1.0	1.2	dB
Typ. Peak Isolation	Iso	28	45	dB
Min. Isolation	Iso	23	40	dB
Max. Polarization Dependent Loss	PDL	0.15	0.2	dB
Max. Polarization Mode Dispersion	PMD	0.2		ps
Min. Return Loss	RL	50		dB
Max. Optical Power (CW)	P	500 or customized		mW
Max. Tensile Load		5		N
Fiber Type		SMF-28e or SM1950 fiber		-
Operating Temperature	T	-5~70		°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.

Drawing:



Ordering Information (Part Number):

PIISO-**WWW**-**S**-**FF**-**J**-**LL**-**CC**

WWW	S	FF	J	LL	CC
Wavelength	Stage	Fiber Type	Fiber Jacket	Fiber Length	Connector
1850 - 1850nm	S - Single Stage	S2 - SMF-28e	B - 250um Bare Fiber	05 - 0.5m	NE - None
1860 - 1860nm	D - Dual Stage	S1 - SM-1950	9 - 900um Loose Tube	10 - 1.0m	FA - FC/APC
1870 - 1870nm			2 - 2.0mm Loose Tube	15 - 1.5m	FU - FC/UPC
1880 - 1880nm			3 - 3.0mm Loose Tube	20 - 2.0m	SA - SC/APC
1890 - 1890nm				SS - Specify	SU - SU/APC
					LA - LC/APC
					LU - LC/UPC
					SS - Specify