

1420nm Polarization Insensitive Optical Isolator

1420nm Polarization Insensitive Optical Isolator is a fiber passive component built with singlemode 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 Amplifier
Fiber Optic Sensor
Fiber Laser
Lab & Research

Features:

High Isolation
Low PDL
Low Insertion Loss
High Reliability



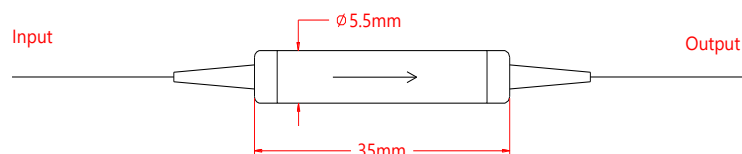
Specification:

Parameter	Symbol	Value		Unit
Center Wavelength	λ	1420		nm
Bandwidth	BW	± 15		nm
Stage		Single Stage	Dual Stage	-
Typ. Insertion Loss	IL	0.3	0.4	dB
Max. Insertion Loss	IL	0.5	0.6	dB
Typ. Peak Isolation	Iso	42	58	dB
Min. Isolation	Iso	28	48	dB
Max. Polarization Dependent Loss	PDL	0.05	0.1	dB
Max. Polarization Mode Dispersion	PMD	0.2	0.05	ps
Min. Return Loss	RL	55		dB
Max. Optical Power (CW)	P	500		mW
Max. Tensile Load		5		N
Fiber Type		SMF-28e 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-J-LL-CC**

WWW	S	J	LL	CC
Wavelength	Stage	Fiber Jacket	Fiber Length	Connector
1400 - 1400nm	S - Single Stage	B - 250um Bare Fiber	05 - 0.5m	NE - None
1420 - 1420nm	D - Dual Stage	9 - 900um Loose Tube	10 - 1.0m	FA - FC/APC
1430 - 1430nm		2 - 2.0mm Loose Tube	15 - 1.5m	FU - FC/UPC
1450 - 1450nm		3 - 3.0mm Loose Tube	20 - 2.0m	SA - SC/APC
1480 - 1480nm			SS - Specify	SU - SU/APC
SSSS - Specify				LA - LC/APC
				LU - LC/UPC
				SS - Specify