

1940nm Polarization Insensitive Optical Isolator

1940nm 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.

Application:

Fiber Amplifier
Fiber Optic Sensor
Fiber Laser
Lab & Research

Features:

High Isolation
Low PDL
Low Insertion Loss
High Reliability



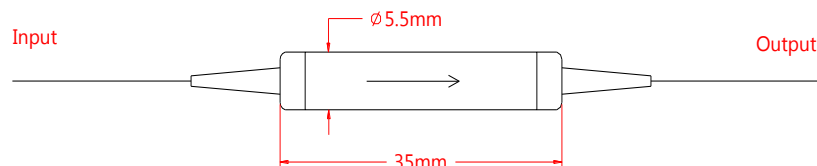
Specification:

Parameter	Symbol	Value		Unit
Center Wavelength	λ	1940		nm
Bandwidth	BW	± 50		nm
Stage		Single Stage	Dual Stage	-
Typ. Insertion Loss	IL	1.0	1.2	dB
Max. Insertion Loss	IL	1.2	1.5	dB
Typ. Peak Isolation	Iso	25	42	dB
Min. Isolation	Iso	16	35	dB
Max. Polarization Dependent Loss	PDL	0.15	0.2	dB
Max. Polarization Mode Dispersion	PMD	0.2	0.1	ps
Min. Return Loss	RL	50		dB
Max. Optical Power (CW)	P	500		mW
Max. Tensile Load		5		N
Fiber Type		Corning SMF-28e or Nufern SM-1950		-
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
1940 - 1940nm	S - Single Stage	S2 - SMF-28e	B - 250um Bare Fiber	05 - 0.5m	NE - None
1950 - 1950nm	D - Dual Stage	S1 - SM-1950	9 - 900um Loose Tube	10 - 1.0m	FA - FC/APC
2000 - 2000nm			2 - 2.0mm Loose Tube	15 - 1.5m	FU - FC/UPC
2050 - 2050nm			3 - 3.0mm Loose Tube	20 - 2.0m	SA - SC/APC
				SS - Specify	SU - SU/APC
					LA - LC/APC
					LU - LC/UPC
					SS - Specify