

## 1550nm Polarization Sensitive Optical Isolator

1550nm Polarization Sensitive 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  
High PDL  
Low Insertion Loss  
High Reliability



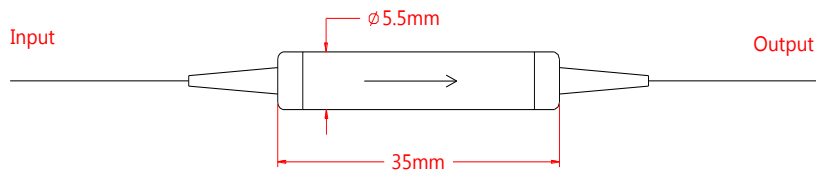
### Specification:

Parameter	Symbol	Value		Unit
Center Wavelength	$\lambda$	1550		nm
Bandwidth	BW	$\pm 15$		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
Min. Polarization Dependent Loss	PDL	23		dB
Max. Polarization Mode Dispersion	PMD	0.2		ps
Min. Return Loss	RL	50		dB
Max. Optical Power (CW)	P	500		mW
Max. Tensile Load		5		N
Fiber Type		SMF-28e		-
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.

### Drawing:



### Ordering Information (Part Number):

PSISO-**WWW**-**S**-**J**-**LL**-**CC**

<b>WWW</b>	<b>S</b>	<b>J</b>	<b>LL</b>	<b>CC</b>
Wavelength	Stage	Fiber Jacket	Fiber Length	Connector
1310 - 1310nm	S - Single Stage	B - 250um Bare Fiber	05 - 0.5m	NE - None
1450 - 1450nm	D - Dual Stage	9 - 900um Loose Tube	10 - 1.0m	FA - FC/APC
1480 - 1480nm		2 - 2.0mm Loose Tube	15 - 1.5m	FU - FC/UPC
1550 - 1550nm		3 - 3.0mm Loose Tube	20 - 2.0m	SA - SC/APC
1580 - 1580nm			SS - Specify	SU - SU/APC
				LA - LC/APC
				LU - LC/UPC
				SS - Specify