1780nm Polarization Insensitive Optical Isolator

1780nm 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:

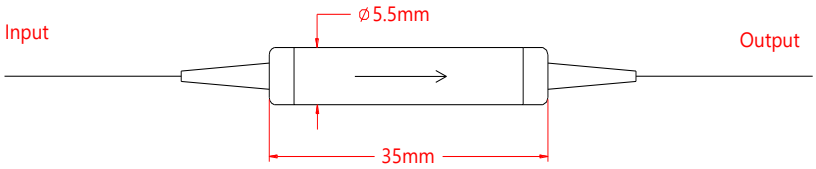
High Isolation
Low PDL
Low Insertion Loss
High Reliability

Specification:

Parameter	Symbol	Value	Unit
Center Wavelength	λ	1780	nm
Bandwidth	BW	±10	nm
Typ. Insertion Loss	IL	1.5	dB
Max. Insertion Loss	IL	1.8	dB
Typ. Peak Isolation	Iso	32	dB
Min. Isolation	Iso	28	dB
Max. Polarization Dependent Loss	PDL	0.2	dB
Max. Polarization Mode Dispersion	PMD	0.05	ps
Min. Return Loss	RL	50	dB
Max. Optical Power (CW)	P	500	mW
Max. Tensil Load		5	N
Fiber Type		SMF-28e	-
Operating Temperature	T	-5~70	℃
Storage Temperature	T	-40~85	℃
Package Dimension		Φ5.5×L35	mm

Notice: Above specifications are tested at center wavelength without connector in room temperature @23℃.
For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower.

Drawing:



Ordering Information (Part Number):

PIISO-WWWW-J-LL-CC

WWWW	J	LL	CC
Wavelength	**Fiber Jacket**	**Fiber Length**	**Connector**
1700 - 1700nm	B - 250um Bare Fiber	05 - 0.5m	NE - None
1720 - 1720nm	9 - 900um Loose Tube	10 - 1.0m	FA - FC/APC
1750 - 1750nm	2 - 2.0mm Loose Tube	15 - 1.5m	FU - FC/UPC
1760 - 1760nm	3 - 3.0mm Loose Tube	20 - 2.0m	SA - SC/APC
1780 - 1780nm		SS - Specify	SU - SU/APC
SSSS - Specify			LA - LC/APC
			LU - LC/UPC
			SS - Specify