1650nm Polarization Insensitive Optical Isolator

1650nm 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 isavailable upon request.

Application:

Fiber Amplifier
Fiber Optic Sensor
Fiber Laser
Lab & Research

Features:

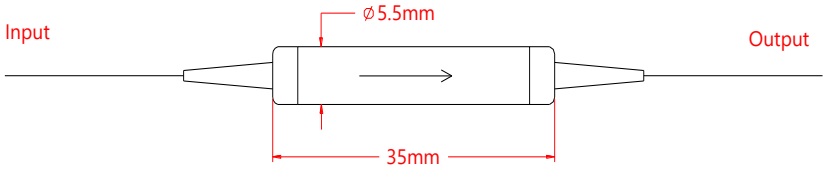
High Isolation
Low PDL
Low Insertion Loss
High Reliability

Specification:

Parameter	Symbol	Value		Unit
Center Wavelength	λ	1650		nm
Bandwidth	BW	±10		nm
Stage		Single Stage	Dual Stage	-
Typ. Insertion Loss	IL	0.4	0.5	dB
Max. Insertion Loss	IL	0.7	0.8	dB
Typ. Peak Isolation	Iso	32	42	dB
Min. Isolation	Iso	26	36	dB
Max. Polarization Dependent Loss	PDL	0.2	0.2	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. Tensil Load		5		N
Fiber Type		SMF-28e fiber		-
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-S-J-LL-CC

WWWW	S	J	LL	CC
Wavelength	**Stage**	**Fiber Jacket**	**Fiber Length**	**Connector**
1625 - 1625nm 1650 - 1650nm SSSS - Specify	S - Single Stage D - Dual Stage	B - 250um Bare Fiber 9 - 900um Loose Tube 2 - 2.0mm Loose Tube 3 - 3.0mm Loose Tube	05 - 0.5m 10 - 1.0m 15 - 1.5m 20 - 2.0m SS - Specify	NE - None FA - FC/APC FU - FC/UPC SA - SC/APC SU - SU/APC LA - LC/APC LU - LC/UPC SS - Specify