

Mini 1590nm Polarization Insensitive Optical Isolator

Mini 1590nm 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 type is available upon request.

Application:

Fiber Optic Amplifier
Fiber Optic Sensor
Fiber Amplifier
Fiber Laser

Features:

Compact Package
High Isolation
Low Insertion Loss
High Reliability



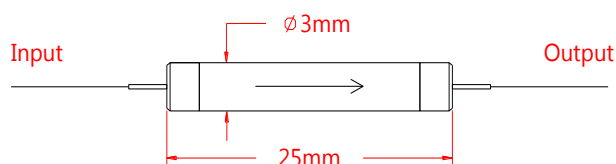
Specification:

Parameter	Symbol	Value		Unit
Center Wavelength	λ	1590		nm
Bandwidth	BW	± 15		nm
Stage		Single Stage	Dual Stage	-
Typ. Insertion Loss	IL	0.4	0.5	dB
Max. Insertion Loss	IL	0.6	0.7	dB
Typ. Peak Isolation	Iso	40	50	dB
Min. Isolation	Iso	28	42	dB
Max. Polarization Dependent Loss	PDL	0.1		dB
Max. Polarization Mode Dispersion	PMD	0.25		ps
Min. Return Loss	RL	50		dB
Max. Optical Power (CW)	P	300		mW
Max. Tensile Load		5		N
Fiber Type		SMF-28e		-
Operating Temperature	T	-5~70		°C
Storage Temperature	T	-40~85		°C
Package Dimension		$\Phi 3.0 \times L25$		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):

MPIISO-*WWW*-*S*-*J*-*LL*-*CC*

WWW	S	J	LL	CC
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			15 - 1.5m	FU - FC/UPC
1550 - 1550nm			20 - 2.0m	SA - SC/APC
1590 - 1590nm			SS - Specify	SU - SU/APC
1625 - 1625nm				LA - LC/APC
				LU - LC/UPC
				SS - Specify