

1053nm Polarization Insensitive Optical Isolator

1053nm Polarization Insensitive Optical Isolator is a fiber passive component built with TGG crystal, 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 system optical signal noise. The high power version is available upon request.

Application:

Fiber Amplifier
Fiber Optic Sensor
Fiber Laser
Lab & Research

Features:

High Isolation
Low PDL
Low Insertion Loss
High Reliability



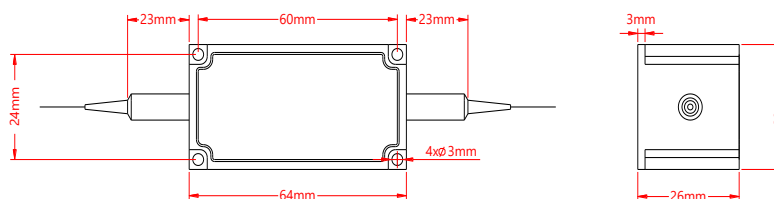
Specification:

Parameter	Symbol	Value	Unit
Center Wavelength	λ	1053	nm
Bandwidth	BW	± 5	nm
Typ. Insertion Loss	IL	0.8	dB
Max. Insertion Loss	IL	1.0	dB
Typ. Peak Isolation	Iso	32	dB
Min. Isolation	Iso	25	dB
Max. Polarization Dependent Loss	PDL	0.15	dB
Min. Return Loss	RL	45	dB
Max. Optical Power (CW)	P	500 or customized	mW
Max. Tensile Load		5	N
Fiber Type		HI 1060 fiber	-
Operating Temperature	T	+10~50	°C
Storage Temperature	T	0~60	°C
Package Dimension		64x28x26	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 - HH - J - LL - CC				
WWW	HH	J	LL	CC
Wavelength	Handling Power	Fiber Jacket	Fiber Length	Connector
1020 - 1020nm	Z5 - 0.5W	B - 250um Bare Fiber	01 - 0.1m	NE - None
1030 - 1030nm	SS - Specify	9 - 900um Loose Tube	05 - 0.5m	FA - FC/APC
1040 - 1040nm		2 - 2.0mm Loose Tube	10 - 1.0m	FU - FC/UPC
1050 - 1050nm		3 - 3.0mm Loose Tube	15 - 1.5m	SA - SC/APC
1053 - 1053nm			20 - 2.0m	SU - SU/APC
1060 - 1060nm			SS - Specify	LA - LC/APC
1064 - 1064nm				LU - LC/UPC
1080 - 1080nm				SS - Specify