

1053±50nm Broadband PM Fiber Optic Isolator

1053±50nm Broadband Polarization Maintaining 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 OCT system, fiber optic sensor system to protect the light source and lower down the system optical signal noise. The higher power type is available upon request.

Application:

OCT
Fiber Optic Sensor
Fiber Laser
Lab And Research

Features:

High Isolation
Wide Band
High Extinction Ratio
High Reliability



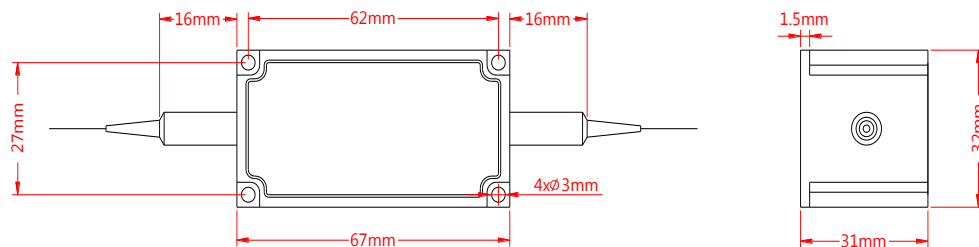
Specification:

Parameter	Symbol	Value	Unit
Center Wavelength	λ	1053	nm
Bandwidth	BW	±50	nm
Typ. Insertion Loss	IL	0.9	dB
Max. Insertion Loss	IL	1.5	dB
Typ. Peak Isolation	Iso	25	dB
Min. Isolation	Iso	18	dB
Min. Extinction Ratio for Fast Axis Blocked	ER	20	dB
Min. Extinction Ratio for Both Axes Working	ER	18	dB
Min. Return Loss	RL	50	dB
Max. Optical Power (CW)	P	500 (higher power is available)	mW
Max. Tensile Load		5	N
Fiber Type		PM Panda fiber	-
Operating Temperature	T	+5~65	°C
Storage Temperature	T	-40~85	°C
Package Dimension			mm

Notice: Above specifications are tested without connector in room temperature @23°C.

For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower, ER will be 2dB lower, slow axis is default aligned to the connector key.

Drawing:



Ordering Information (Part Number):

BPMISO-**WWW**-**A**-**J**-**LL**-**CC**

WWW	A	J	LL	CC
Wavelength	Working Axis	Fiber Jacket	Fiber Length	Connector
1030 - 1030nm	F - Fast Axis Blocked Slow Axis Working	B - 250um Bare Fiber	05 - 0.5m	NE - None
1040 - 1040nm		9 - 900um Loose Tube	10 - 1.0m	FA - FC/APC
1050 - 1050nm	B - Both Axes Working		15 - 1.5m	FU - FC/UPC
1053 - 1053nm			20 - 2.0m	SA - SC/APC
1060 - 1060nm			SS - Specify	SU - SU/APC
1064 - 1064nm				LA - LC/APC
SSSS - Specify				LU - LC/UPC
				SS - Specify