

1550±50nm High Power Broadband PM Fiber Optic Isolator

1550±50nm High Power Broadband PM Optical Isolator is a fiber passive component built with Faraday 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
Testing System
Lab & Research

Feature

Wide Band
High Isolation
Low Insertion Loss
High Reliability



Specification:

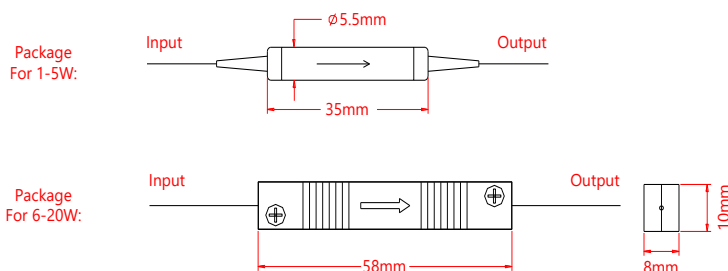
Parameter	Symbol	Value		Unit
Center Wavelength	λ	1550		nm
Bandwidth	BW	±50		nm
Stage		Single Stage	Dual Stage	-
Typ. Insertion Loss	IL	0.5	0.8	dB
Max. Insertion Loss	IL	0.8	1.1	dB
Typ. Peak Isolation	Iso	35	42	dB
Min. Isolation	Iso	25	32	dB
Min. Extinction Ratio for Fast Axis Blocked	ER	22		dB
Min. Extinction Ratio for Both Axes Working	ER	20		dB
Min. Return Loss	RL	50		dB
Max. Optical Power (CW)	P	0.5, 1, 3, 5, 10, 15, 20 or specify		W
Max. Peak Power	P	5, 10 or specify		KW
Max. Tensile Load		5		N
Fiber Type		PM 1550 Panda Fiber		-
Operating Temperature	T	-5~70		°C
Storage Temperature	T	-40~85		°C
Package Dimension		Φ5.5×L35, Φ5.5×L60 or L58xW10xH8		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. ER will be 2dB lower.

Slow axis is default aligned to the connector key. Connectors only 1W CW optical power guarantee.

Drawing:



Ordering Information (Part Number):

HBPMI-**WWW**-**BB**-**S**-**A**-**HH**-**J**-**LL**-**CC**

WWW	BB	S	A	HH	J	LL	CC
Wavelength	Bandwidth	Stage	Working Axis	Handling Power	Fiber Jacket	Fiber Length	Connector
1550 - 1550nm SSSS - Specify	1H - 100nm 2H - 200nm	S - Single Stage D - Dual Stage	F - Fast axis Blocked Slow Axis working B - Both Axes Working	01 - 1W 03 - 3W 05 - 5W 10 - 10W 15 - 15W 20 - 20W SS - Specify	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 SS - Specify