

1550±50nm High Power Broadband Polarization Insensitive Optical Isolator

1550±50nm High Power Broadband Polarization Insensitive 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

Features:

Wide Band
High Isolation
Low Insertion Loss
High Reliability



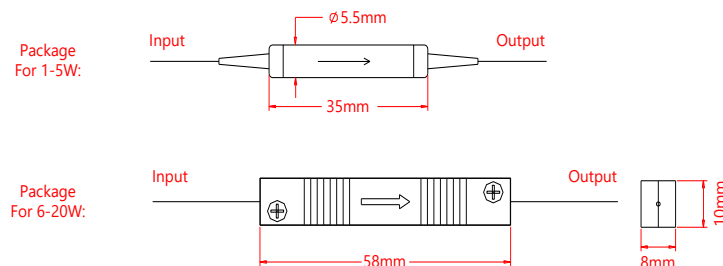
Specification:

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
Max. Polarization Dependent Loss	PDL	0.15	0.2	dB
Max. Polarization Mode Dispersion	PMD	0.2	0.1	ps
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		SMF-28e fiber		-
Operating Temperature	T	-5~70		°C
Storage Temperature	T	-40~85		°C
Package Dimension		Φ5.5×L35 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. connectors only 1W CW optical power guarantee.

Drawing:



Ordering Information (Part Number):

HBPII-**WWWW**-**BB**-**S**-**HH**-**J**-**LL**-**CC**

WWWW	BB	S	HH	J	LL	CC
Wavelength	Bandwidth	Stage	Handling Power	Fiber Jacket	Fiber Length	Connector
1550 - 1550nm SSSS - Specify	1H - 100nm 2H - 200nm	S - Single Stage D - Dual Stage	01 - 1W 03 - 3W 05 - 5W 10 - 10W 15 - 15W 20 - 20W SS - Specify	B - 250um Bare Fiber 9 - 900um 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