

High Power 1940nm PM Optical Isolator

High Power 1940nm Polarization Maintaining Optical Isolator is a fiber passive component built with PM 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. The optical power can be up to 10W CW upon request, if need pulse type please contact us to confirm.

Application

Fiber Optic Amplifier
Fiber Optic Sensor
Fiber Laser
Lab & Research

Features:

High Power
High Isolation
Low Insertion Loss
High Reliability



Specification:

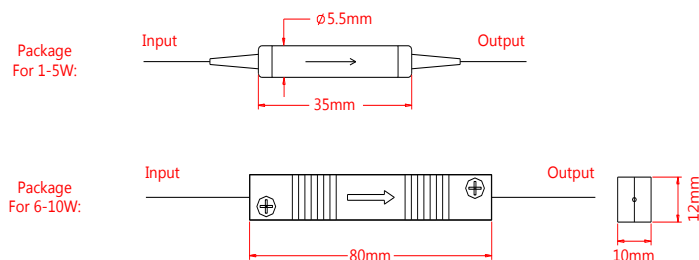
Parameter	Symbol	Value		Unit
Center Wavelength	λ	1940		nm
Bandwidth	BW	± 50		nm
Stage		Single Stage	Dual Stage	-
Typ. Insertion Loss	IL	0.8	0.9	dB
Max. Insertion Loss	IL	1.2	1.4	dB
Typ. Peak Isolation	Iso	25	42	dB
Min. Isolation	Iso	18	32	dB
Min. Extinction Ratio for Fast Axis Blocked	ER	20		dB
Min. Extinction Ratio for Both Axes Working	ER	18		dB
Min. Return Loss	RL	50		dB
Max. Optical Power (CW)	P	1, 3, 5, 10 or specify		W
Max. Peak Power	P	5, 10 or specify		KW
Max. Tensile Load		5		N
Fiber Type		PM 1550 or PM 1950 Panda Fiber		-
Operating Temperature	T	-5~70		°C
Storage Temperature	T	-40~85		°C
Package Dimension		$\Phi 5.5 \times L35$ or $L80 \times W12 \times H10$		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):

HPMISO-**WWW**-**S**-**A**-**HH**-**FF**-**J**-**LL**-**CC**

WWW	S	A	HH	FF	J	LL	CC
Wavelength	Stage	Working Axis	Handling Power	Fiber Type	Fiber Jacket	Fiber Length	Connector
1940 - 1940nm	S - Single Stage	F - Fast axis Blocked	01 - 1W	P5 - PM 1550	B - 250um Bare	05 - 0.5m	NE - None
1950 - 1950nm	D - Dual Stage	Slow Axis working	03 - 3W	P9 - PM 1950	Fiber	10 - 1.0m	FA - FC/APC
2000 - 2000nm		B - Both Axes Working	05 - 5W		9 - 900um Loose	15 - 1.5m	FU - FC/UPC
2050 - 2050nm			10 - 10W		Tube	20 - 2.0m	SA - SC/APC
			SS - Specify			SS - Specify	SU - SU/APC
							LA - LC/APC
							LU - LC/UPC
							SS - Specify