

## High Power 1625nm PM Optical Isolator

High Power 1625nm 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 20W 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:

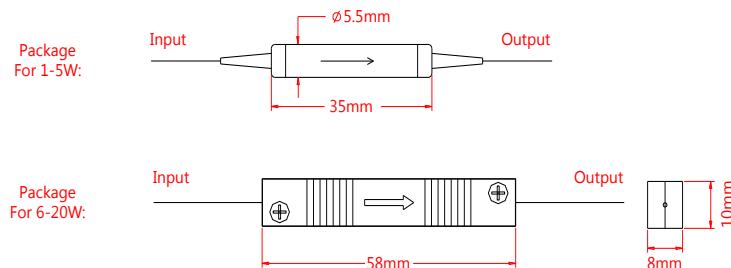
Parameter	Symbol	Value	Unit
Center Wavelength	$\lambda$	1625	nm
Bandwidth	BW	$\pm 20$	nm
Stage		Single Stage      Dual Stage	-
Typ. Insertion Loss	IL	0.4      0.5	dB
Max. Insertion Loss	IL	0.6      0.8	dB
Typ. Peak Isolation	Iso	42      58	dB
Min. Isolation	Iso	28      48	dB
Min. Extinction Ratio for 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	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 Panda Fiber	-
Operating Temperature	T	-5~70	°C
Storage Temperature	T	-40~85	°C
Package Dimension		$\Phi 5.5 \times L35$ or $L58 \times W10 \times H8$	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**-**J**-**LL**-**CC**

<b>WWW</b>	<b>S</b>	<b>A</b>	<b>HH</b>	<b>J</b>	<b>LL</b>	<b>CC</b>
Wavelength	Stage	Working Axis	Handling Power	Fiber Jacket	Fiber Length	Connector
1625 - 1625nm	S - Single Stage	F - Fast axis Blocked	01 - 1W	B - 250um Bare Fiber	05 - 0.5m	NE - None
1650 - 1650nm	D - Dual Stage	Slow Axis working	03 - 3W	9 - 900um Loose Tube	10 - 1.0m	FA - FC/APC
		B - Both Axes Working	05 - 5W		15 - 1.5m	FU - FC/UPC
			10 - 10W		20 - 2.0m	SA - SC/APC
			15 - 15W		SS - Specify	SU - SU/APC
			20 - 20W			LA - LC/APC
			SS - Specify			LU - LC/UPC
						SS - Specify