

1870nm High Power PM Fiber Optic Isolator

1870nm High Power PM Fiber Optic 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:

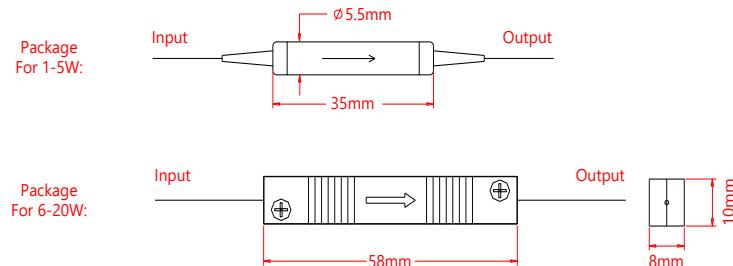
Parameter	Symbol	Value	Unit
Center Wavelength	λ	1870	nm
Bandwidth	BW	± 10	nm
Typ. Insertion Loss	IL	1.5	dB
Max. Insertion Loss	IL	1.8	dB
Typ. Peak Isolation	Iso	25	dB
Min. Isolation	Iso	20	dB
Min. Extinction Ratio for Fast Axis Blocked	ER	22	dB
Min. Extinction Ratio for Both Axes Working	ER	20	dB
Min. 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**-**A**-**HH**-**J**-**LL**-**CC**

WWW	A	HH	J	LL	CC
Wavelength	Working Axis	Handling Power	Fiber Jacket	Fiber Length	Connector
1850 - 1850nm	F - Fast axis Blocked Slow Axis working	01 - 1W	B - 250um Bare Fiber	05 - 0.5m	NE - None
1860 - 1860nm		03 - 3W	9 - 900um Loose Tube	10 - 1.0m	FA - FC/APC
1870 - 1870nm	B - Both Axes Working	05 - 5W	2 - 2.0mm Loose Tube	15 - 1.5m	FU - FC/UPC
1890 - 1890nm		10 - 10W	3 - 3.0mm Loose Tube	20 - 2.0m	SA - SC/APC
SSSS - Specify		15 - 15W		SS - Specify	SU - SU/APC
		20 - 20W			LA - LC/APC
		SS - Specify			LU - LC/UPC
					SS - Specify