High Power 1650nm PM Optical Isolator

High Power 1650nm 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:

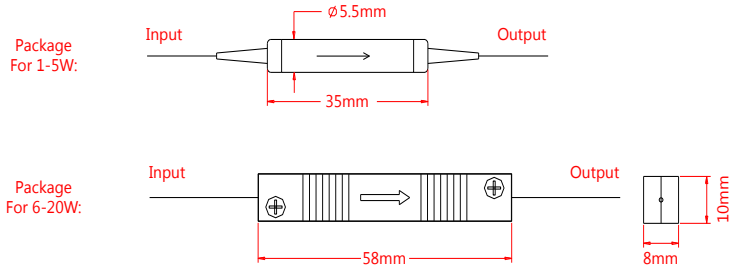
High Power
High Isolation
Low Insertion Loss
High Reliability

Specification:

Parameter	Symbol	Value		Unit
Center Wavelength	λ	1650		nm
Bandwidth	BW	±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. Tensil Load		5		N
Fiber Type		PM Panda Fiber		-
Operating Temperature	T	-5~70		℃
Storage Temperature	T	-40~85		℃
Package Dimension		Φ5.5×L35 or L58xW10xH8		mm

Notice: Above specifications are tested at center wavelength without connector in room temperature @23℃.
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-WWWW-S-A-HH-J-LL-CC

WWWW	S	A	HH	J	LL	CC
Wavelength	**Stage**	**Working Axis**	**Handling Power**	**Fiber Jacket**	**Fiber Length**	**Connector**
1625 - 1625nm 1650 - 1650nm	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	05 - 0.5m 10 - 1.0m 15 - 1.5m 20 - 2.0m SS - Specify	NE - None FA - FC/APC FU - FC/UPC SA - SC/APC SU - SU/APC LA - LC/APC LU - LC/UPC SS - Specify