

High Power 1580nm Polarization Insensitive Optical Isolator

High Power 1580nm Polarization Insensitive Optical Isolator is a fiber passive component built with singlemode 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 Amplifier
Fiber Laser

Features:

High Power
High Isolation
Low Insertion Loss
High Reliability



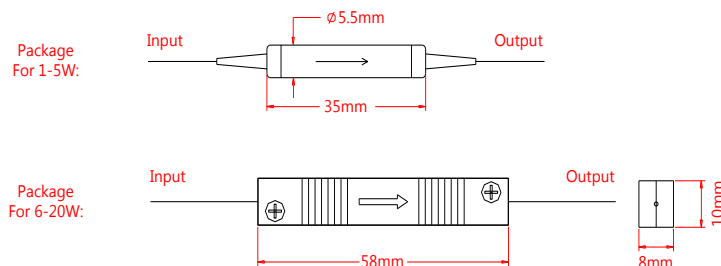
Specification:

Parameter	Symbol	Value		Unit
Center Wavelength	λ	1580		nm
Bandwidth	BW	± 20		nm
Stage		Single Stage	Dual Stage	-
Typ. Insertion Loss	IL	0.3	0.4	dB
Max. Insertion Loss	IL	0.5	0.6	dB
Typ. Peak Isolation	Iso	42	58	dB
Min. Isolation	Iso	28	48	dB
Max. Polarization Dependent Loss	PDL	0.15		dB
Max. Polarization Mode Dispersion	PMD	0.2		ps
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		SMF-28e		-
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. connectors only 1W CW optical power guarantee.

Drawing:



Ordering Information (Part Number):

HPIISO-**WWW**-**S**-**HH**-**J**-**LL**-**CC**

WWW	S	HH	J	LL	CC
Wavelength	Stage	Handling Power	Fiber Jacket	Fiber Length	Connector
1310 - 1310nm	S - Single Stage	01 - 1W	B - 250um Bare Fiber	05 - 0.5m	NE - None
1450 - 1450nm	D - Dual Stage	03 - 3W	9 - 900um Loose Tube	10 - 1.0m	FA - FC/APC
1480 - 1480nm		05 - 5W		15 - 1.5m	FU - FC/UPC
1550 - 1550nm		10 - 10W		20 - 2.0m	SA - SC/APC
1580 - 1580nm		15 - 15W		SS - Specify	SU - SU/APC
		20 - 20W			LA - LC/APC
		SS - Specify			LU - LC/UPC
					SS - Specify