

## 1750nm High Power Polarization Insensitive Optical Isolator

1750nm High Power 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 10W 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



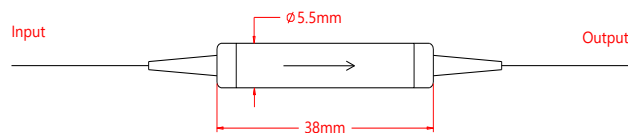
### Specification:

Parameter	Symbol	Value	Unit
Center Wavelength	$\lambda$	1750	nm
Bandwidth	BW	$\pm 10$	nm
Typ. Insertion Loss	IL	1.2	dB
Max. Insertion Loss	IL	1.5	dB
Typ. Peak Isolation	Iso	35	dB
Min. Isolation	Iso	30	dB
Max. Polarization Dependent Loss	PDL	0.2	dB
Max. Polarization Mode Dispersion	PMD	0.2	ps
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		Corning SMF-28e or specify	-
Operating Temperature	T	-5~70	°C
Storage Temperature	T	-40~85	°C
Package Dimension		$\Phi 5.5 \times L38$	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**-HH-J-LL-CC

<b>WWW</b>	<b>HH</b>	<b>J</b>	<b>LL</b>	<b>CC</b>
Wavelength	Handling Power	Fiber Jacket	Fiber Length	Connector
1700 - 1700nm	01 - 1W	B - 250um Bare Fiber	05 - 0.5m	NE - None
1720 - 1720nm	03 - 3W	9 - 900um Loose Tube	10 - 1.0m	FA - FC/APC
1750 - 1750nm	05 - 5W		15 - 1.5m	FU - FC/UPC
1760 - 1760nm	10 - 10W		20 - 2.0m	SA - SC/APC
1780 - 1780nm	SS - Specify		SS - Specify	SU - SU/APC
SSSS - Specify				LA - LC/APC
				LU - LC/UPC
				SS - Specify