

High Power 1120nm Polarization Insensitive Optical Isolator

High Power 1120nm Polarization Insensitive Optical Isolator is a fiber passive component built with TGG crystal, 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 system optical signal noise. The higher power type is available upon request, if need pulse type please contact us to confirm.

Application:

Fiber Amplifier
Fiber Optic Sensor
Fiber Laser
Lab & Research

Features:

High Isolation
High Power
Low Insertion Loss
High Reliability



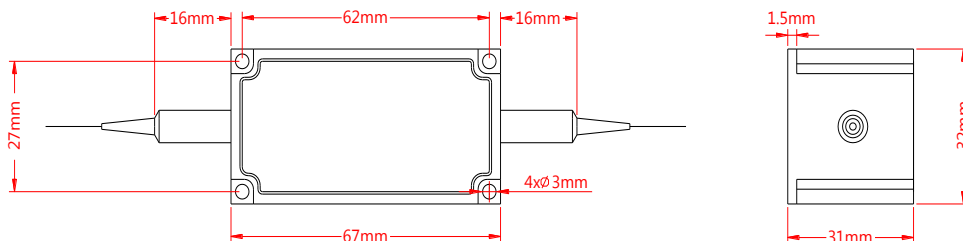
Specification:

Parameter	Symbol	Value	Unit
Center Wavelength	λ	1120	nm
Bandwidth	BW	± 10	nm
Typ. Insertion Loss	IL	1.2	dB
Max. Insertion Loss	IL	1.8	dB
Typ. Peak Isolation	Iso	25	dB
Min. Isolation	Iso	20	dB
Max. Polarization Dependent Loss	PDL	0.15	dB
Min. Return Loss	RL	45	dB
Max. Optical Power (CW)	P	0.5, 1, 3, 5, 10, 20, 50 or customized	W
Max. Peak Power	P	5, 10 or customized	kW
Max. Tensile Load		5	N
Fiber Type		HI 1060, 10/125DC, 20/130DC fiber	-
Operating Temperature	T	+10~50	°C
Storage Temperature	T	0~60	°C
Package Dimension			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 guarantee.

Drawing:



Ordering Information (Part Number):

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

WWW	HH	FF	J	LL	CC
Wavelength	Handling Power	Fiber Type	Fiber Jacket	Fiber Length	Connector
1120 - 1120nm	Z5 - 0.5W	H1 - HI 1060	B - 250um Bare Fiber	05 - 0.5m	NE - None
SSSS - Specify	01 - 1W	10 - 10/125	9 - 900um Loose Tube	10 - 1.0m	FA - FC/APC
	03 - 3W	20 - 20/130		15 - 1.5m	FU - FC/UPC
	05 - 5W	SS - Specify		20 - 2.0m	SA - SC/APC
	10 - 10W			SS - Specify	SU - SU/APC
	20 - 20W				LA - LC/APC
	50 - 50W				LU - LC/UPC
	SS - Specify				SS - Specify