

## 680nm Polarization Insensitive Optical Isolator

680nm 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 Quantum Communication system, fiber optic sensor system to protect the light source and lower down the system optical signal noise. The high power type is available upon request.

### Application:

Quantum Communication  
Fiber Optic Sensor  
Fiber Laser  
Lab & Research

### Features:

High Isolation  
Low PDL  
Low Insertion Loss  
High Reliability



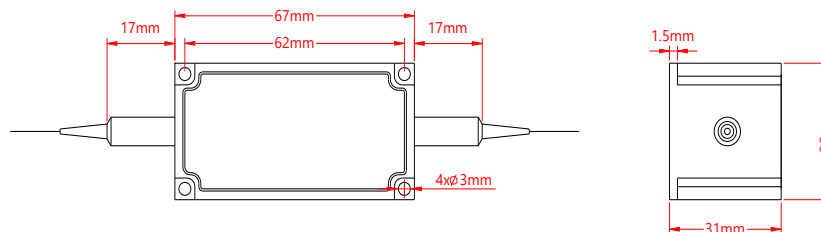
### Specification:

Parameter	Symbol	Value	Unit
Center Wavelength	$\lambda$	680	nm
Bandwidth	BW	$\pm 5$	nm
Typ. Insertion Loss	IL	0.8	dB
Max. Insertion Loss	IL	1.2	dB
Typ. Peak Isolation	Iso	25	dB
Min. Isolation	Iso	22	dB
Max. Polarization Dependent Loss	PDL	0.2	dB
Min. Return Loss	RL	45	dB
Max. Optical Power (CW)	P	300 or customized	mW
Max. Tensile Load		5	N
Fiber Type		Nufern 630-HP 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.

### Drawing:



### Ordering Information (Part Number):

PIISO-**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
633 - 633nm	Z3 - 0.3W	B - 250um Bare Fiber	05 - 0.5m	NE - None
635 - 635nm	SS - Specify	9 - 900um Loose Tube	10 - 1.0m	FA - FC/APC
640 - 640nm			15 - 1.5m	FU - FC/UPC
650 - 650nm			20 - 2.0m	SA - SC/APC
680 - 680nm			SS - Specify	SU - SU/APC
SSS - Specify				LA - LC/APC
				LU - LC/UPC
				SS - Specify