

High Power 680nm Polarization Insensitive Optical Isolator

High Power 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 biomedical 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:

Optical Biomedical
Fiber Optic Sensor
Fiber Laser
Lab & Research

Features:

High Isolation
High Power
Low Insertion Loss
High Reliability



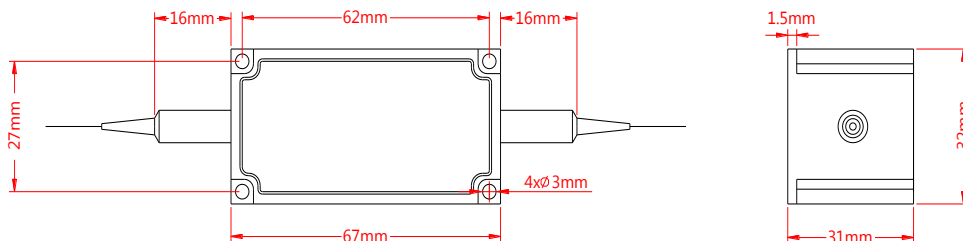
Specification:

Parameter	Symbol	Value	Unit
Center Wavelength	λ	680	nm
Bandwidth	BW	± 5	nm
Typ. Insertion Loss	IL	1.6	dB
Max. Insertion Loss	IL	2.0	dB
Typ. Peak Isolation	Iso	30	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	0.5, 1, 2 or customized	W
Max. Peak Power	P	5 or customized	kW
Max. Tensile Load		5	N
Fiber Type		630-HP fiber	-
Operating Temperature	T	+10~50	$^{\circ}\text{C}$
Storage Temperature	T	0~60	$^{\circ}\text{C}$
Package Dimension			mm

Notice: Above specifications are tested at center wavelength without connector in room temperature @23 $^{\circ}\text{C}$.

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
633 - 633nm	Z5 - 0.5W	6H - 630-HP	B - 250um Bare Fiber	05 - 0.5m	NE - None
635 - 635nm	01 - 1W	SS - Specify	9 - 900um Loose Tube	10 - 1.0m	FA - FC/APC
650 - 650nm	02 - 2W			15 - 1.5m	FU - FC/UPC
680 - 680nm	SS - Specify			20 - 2.0m	SA - SC/APC
SSS - Specify				SS - Specify	SU - SU/APC
					LA - LC/APC
					LU - LC/UPC
					SS - Specify