

High Power 780nm Polarization Insensitive Optical Isolator

High Power 780nm 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



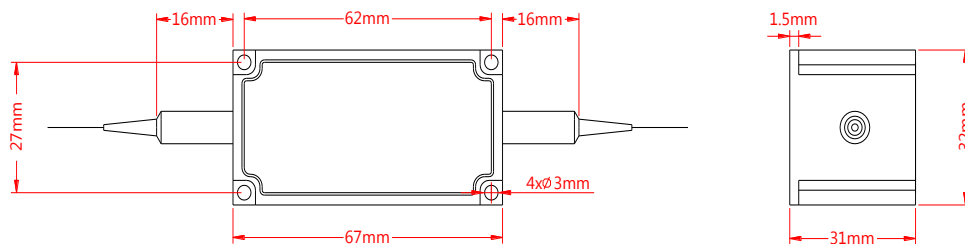
Specification:

Parameter	Symbol	Value	Unit
Center Wavelength	λ	780	nm
Bandwidth	BW	± 5	nm
Typ. Insertion Loss	IL	0.8	dB
Max. Insertion Loss	IL	1.0	dB
Typ. Peak Isolation	Iso	32	dB
Min. Isolation	Iso	25	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 or customized	W
Max. Peak Power	P	5, 10, 20 or customized	kW
Max. Tensile Load		5	N
Fiber Type		HI 780 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
780 - 780nm	Z5 - 0.5W	H7 - HI 780	B - 250um Bare Fiber	05 - 0.5m	NE - None
785 - 785nm	01 - 1W	SS - Specify	9 - 900um Loose Tube	10 - 1.0m	FA - FC/APC
790 - 790nm	03 - 3W			15 - 1.5m	FU - FC/UPC
793 - 793nm	05 - 5W			20 - 2.0m	SA - SC/APC
SSS - Specify	10 - 10W			SS - Specify	SU - SU/APC
	20 - 20W				LA - LC/APC
	SS - Specify				LU - LC/UPC
					SS - Specify