

1180nm High Power Polarization Insensitive Optical Isolator

1180nm High Power 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. 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



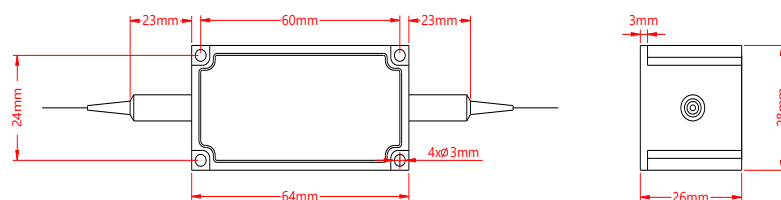
Specification:

Parameter	Symbol	Value	Unit
Center Wavelength	λ	1180	nm
Bandwidth	BW	± 5	nm
Typ. Insertion Loss	IL	0.8	dB
Max. Insertion Loss	IL	1.0	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	1, 3, 5, 10, 20 or customized	W
Max. Peak Power	P	5, 10 or customized	kW
Max. Tensile Load		5	N
Fiber Type		HI 1060 fiber	-
Operating Temperature	T	+10~50	°C
Storage Temperature	T	0~60	°C
Package Dimension		64x28x26	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-J-LL-CC				
WWW	HH	J	LL	CC
Wavelength	Handling Power	Fiber Jacket	Fiber Length	Connector
1100 - 1100nm	01 - 1W	B - 250um Bare Fiber	05 - 0.5m	NE - None
1120 - 1120nm	03 - 3W	9 - 900um Loose Tube	10 - 1.0m	FA - FC/APC
1150 - 1150nm	05 - 5W	2 - 2.0mm Loose Tube	15 - 1.5m	FU - FC/UPC
1180 - 1180nm	10 - 10W	3 - 3.0mm Loose Tube	20 - 2.0m	SA - SC/APC
1200 - 1200nm	20 - 20W		SS - Specify	SU - SU/APC
1230 - 1230nm	SS - Specify			LA - LC/APC
1250 - 1250nm				LU - LC/UPC
SSSS - Specify				SS - Specify