

1053nm High Power Polarization Insensitive Optical Isolator

1053nm 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



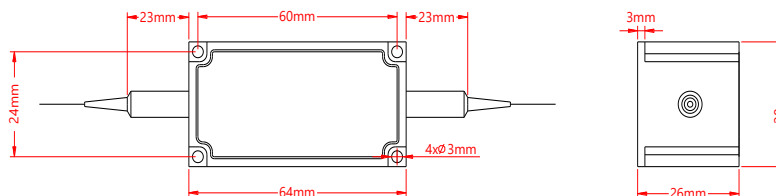
Specification:

Parameter	Symbol	Value	Unit
Center Wavelength	λ	1053	nm
Bandwidth	BW	± 5	nm
Typ. Insertion Loss	IL	0.8	dB
Max. Insertion Loss	IL	1.2	dB
Typ. Peak Isolation	Iso	32	dB
Min. Isolation	Iso	25	dB
Max. Polarization Dependent Loss	PDL	0.2	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, 10/125, 20/130 fiber	-
Operating Temperature	T	+10~50	°C
Storage Temperature	T	0~60	°C
Package Dimension		64x28x2	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
1020 - 1020nm	01 - 1W	H1 - HI 1060	B - 250um Bare Fiber	05 - 0.5m	NE - None
1030 - 1030nm	03 - 3W	10 - 10/125	9 - 900um Loose Tube	10 - 1.0m	FA - FC/APC
1040 - 1040nm	05 - 5W	20 - 20/130	2 - 2mm Loose Tube	15 - 1.5m	FU - FC/UPC
1050 - 1050nm	10 - 10W	SS - Specify	3 - 3mm Loose Tube	20 - 2.0m	SA - SC/APC
1053 - 1053nm	20 - 20W			SS - Specify	SU - SU/APC
1060 - 1060nm	SS - Specify				LA - LC/APC
1064 - 1064nm					LU - LC/UPC
1080 - 1080nm					SS - Specify
SSSS - Specify					