

1080nm High Power 3-port Polarization Insensitive Optical Circulator

1080nm High Power 3-port Polarization Insensitive Optical Circulator is a fiber passive component built with TGG crystal, which can change signal light transmission path, the signal can be delivered from Port 1 to Port 2, the other signal light from Port 2 to Port 3, the high isolation can block the back reflection light. It's widely used in Quantum Communication, Fiber Laser and Coherent Detecting field. If need pulse type please tell us to confirm.

Application:

Quantum Communication
Fiber Laser
Coherent Detecting
Lab & Research

Features:

High Power
High Isolation
Low Insertion Loss
High Reliability



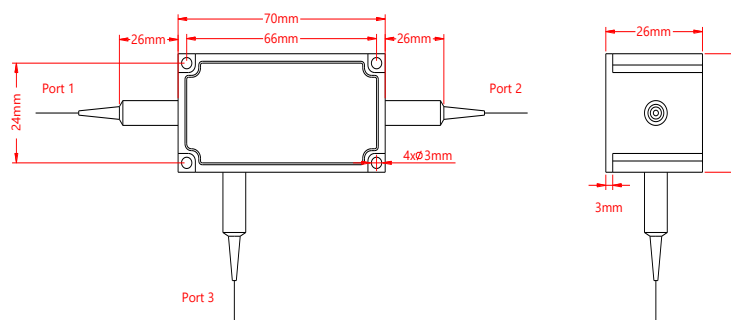
Specification:

Parameter	Symbol	Value	Unit
Center Wavelength	λ	1080	nm
Bandwidth	BW	± 10	nm
Typ. Insertion Loss (Port 1 to 2, 2 to 3)	IL	0.9	dB
Max. Insertion Loss (Port 1 to 2, 2 to 3)	IL	1.2	dB
Typ. Isolation (Port 2 to 1, 3 to 2)	Iso	25	dB
Min. Isolation (Port 2 to 1, 3 to 2)	Iso	22	dB
Max. Polarization Dependent Loss	PDL	0.15	dB
Min. Cross Talk	Ct	45	dB
Min. Return Loss	RL	45	dB
Max. Optical Power (CW)	P	1, 3, 5, 10, 20, 50, 100, 150 or customized	W
Max. Peak Power	P	5, 10, 20 or customized	kW
Max. Tensile Load		5	N
Fiber Type		HI 1060, 10/125DC, 20/130DC, 30/250DC, 20/400DC, 25/400DC fiber	-
Operating Temperature	T	+10~50	°C
Storage Temperature	T	0~60	°C
Package Dimension		70x28x26	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 optical power guarantee.

Drawing:



Ordering Information (Part Number):

HPICIR- WWW - P - HH - F - J - LL - CC						
WWW	P	HH	F	J	LL	CC
Wavelength	Port	Handling Power	Fiber Type	Fiber Jacket	Fiber Length	Connector
1020 - 1020nm	3 - 3 Ports	01 - 1W	1 - HI 1060	B - 250um Bare Fiber	05 - 0.5m	NE - None
1030 - 1030nm		03 - 3W	2 - 10/125 DC	9 - 900um Loose Tube	10 - 1.0m	FA - FC/APC
1040 - 1040nm		05 - 5W	3 - 20/130 DC	2 - 2mm Loose Tube	15 - 1.5m	FU - FC/UPC
1050 - 1050nm		10 - 10W	4 - 30/250 DC	3 - 3mm Loose Tube	20 - 2.0m	SS - Specify
1053 - 1053nm		20 - 20W	5 - 20/400 DC		SS - Specify	
1060 - 1060nm		50 - 50W	6 - 25/400 DC			
1064 - 1064nm		100 - 100W				
1080 - 1080nm		150 - 150W				
SSSS - Specify		SSS - Specify				