

1030±50nm Broadband 3-port Polarization Insensitive Optical Circulator

1030±50nm Broadband 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 OCT System, Fiber Optic Sensor and Coherent Detecting System field. High Power type is also available upon request.

Application:

OCT
Fiber Optic Sensor
Coherent Detecting
Lab & Research

Features:

Wide Band
High Isolation
Low Insertion Loss
High Reliability



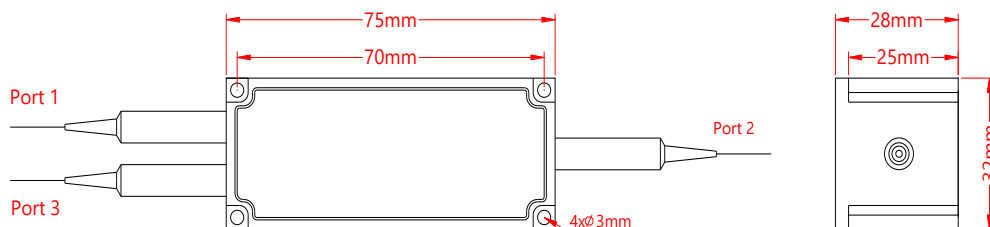
Specification:

Parameter	Symbol	Value	Unit
Center Wavelength	λ	1030	nm
Bandwidth	BW	±50	nm
Max. Insertion Loss (Port 1 to 2, 2 to 3) @ λ	IL	1.0	dB
Max. Insertion Loss (Port 1 to 2, 2 to 3) @ $\lambda \pm 50\text{nm}$	IL	1.8	dB
Typ. Isolation for Port 2→1, 3→2 @ $\lambda \pm 50\text{nm}$	Iso	42	dB
Min. Isolation for Port 2→1, 3→2 @ $\lambda \pm 50\text{nm}$	Iso	35	dB
Max. Polarization Dependent Loss	PDL	0.2	dB
Max. Wavelength Dependent Loss	WDL	0.4	dB
Min. Return Loss	RL	50	dB
Max. Optical Power (CW)	P	500 or customized	mW
Max. Tensile Load		5	N
Fiber Type		HI 1060 fiber	-
Operating Temperature	T	10~50	°C
Storage Temperature	T	0-60	°C
Package Dimension			mm

Notice: Above specifications are tested without connector in room temperature @23°C.

For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower.

Drawing:



Ordering Information (Part Number):

PICIR- WWW-BB-P-J-LL-CC					
WWW	BB	P	J	LL	CC
Wavelength	Bandwidth	Port	Jacket	Fiber Length	Connector
1030 - 1030nm	1H- 100nm	3 - 3 Ports	B - Bare Fiber	05 - 0.5m	NE - None
1040 - 1040nm	SS - Specify		9 - 900um Loose Tube	10 - 1.0m	FA - FC/APC
1050 - 1050nm				15 - 1.5m	FU - FC/UPC
1060 - 1060nm				20 - 2.0m	SS - Specify
SSSS - Specify				SS - Specify	