

1720nm 3-port Polarization Insensitive Optical Circulator

1720nm 3-port Polarization Insensitive Optical Circulator is a fiber passive component built with faraday 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 Laser System, Fiber Optic Sensor and Coherent Detecting field. High Power version is also available upon request.

Application:

Fiber Optic Amplifier
Fiber Optic Sensor
Laser System
Coherent Detecting

Features:

Low PDL
High Isolation
Low Insertion Loss
High Reliability



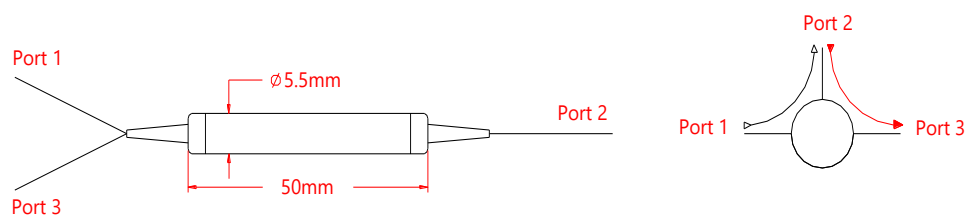
Specification:

Parameter	Symbol	Value	Unit
Center Wavelength	λ	1720	nm
Bandwidth	BW	± 10	nm
Typ. Insertion Loss (Port 1 to 2, 2 to 3)	IL	1.2	dB
Max. Insertion Loss (Port 1 to 2, 2 to 3)	IL	1.5	dB
Typ. Isolation (Port 2 to 1, 3 to 2)	Iso	35	dB
Min. Isolation (Port 2 to 1, 3 to 2)	Iso	30	dB
Max. Polarization Dependent Loss	PDL	0.2	dB
Max. Polarization Mode Dispersion	PMD	0.1	ps
Min. Cross Talk	Ct	50	dB
Min. Directivity		50	dB
Min. Return Loss	RL	50	dB
Max. Optical Power (CW)	P	500	mW
Max. Tensile Load		5	N
Fiber Type		SMF-28e or SM 1950 fiber	-
Operating Temperature	T	0~70	°C
Storage Temperature	T	-40~85	°C
Package Dimension		$\Phi 5.5 \times L50$	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.

Drawing:



Ordering Information (Part Number):

PICIR- WWW - P - FF - J - LL - CC					
WWW	P	FF	J	LL	CC
Wavelength	Port	Fiber Type	Fiber Jacket	Fiber Length	Connector
1700 - 1700nm	3 - 3 Ports	S1 - SM 1950	B - 250um Bare Fiber	05 - 0.5m	NE - None
1720 - 1720nm		S2 - SMF-28e	9 - 900um Loose Tube	10 - 1.0m	FA - FC/APC
1750 - 1750nm			2 - 2mm Loose Tube	15 - 1.5m	FU - FC/UPC
1760 - 1760nm			3 - 3mm Loose Tube	20 - 2.0m	SA - SC/APC
1780 - 1780nm				SS - Specify	SU - SU/APC
SSSS - Specify					LA - LC/APC
					LU - LC/UPC
					SS - Specify