1420nm 3-port Polarization Insensitive Optical Circulator

1420nm 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 WDM System, Fiber Optic Sensor and Coherent Detecting field. High Power type is available upon request.

Application:

Fiber Optic Sensor
CWDM, DWDM System
Coherent Detecting
Fiber Optic Amplifier

Features:

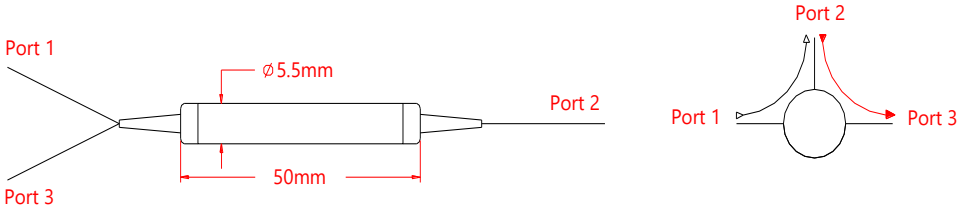
Low PDL
High Isolation
Low Insertion Loss
High Reliability

Specification:

Parameter	Symbol	Value	Unit
Center Wavelength	λ	1420	nm
Bandwidth	BW	±30	nm
Typ. Insertion Loss (Port 1 to 2, 2 to 3)	IL	0.6	dB
Max. Insertion Loss (Port 1 to 2, 2 to 3)	IL	0.8	dB
Typ. Isolation (Port 2 to 1, 3 to 2)	Iso	50	dB
Min. Isolation (Port 2 to 1, 3 to 2)	Iso	40	dB
Max. Polarization Dependent Loss	PDL	0.15	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. Tensil Load		5	N
Fiber Type		SMF-28e fiber	-
Operating Temperature	T	0~70	℃
Storage Temperature	T	-40~85	℃
Package Dimension		Φ5.5×L50	mm

Notice: Above specifications are tested at center wavelength without connector in room temperature @23℃.
For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower.

Drawing:



Ordering Information (Part Number):

PICIR-WWWW-P-J-LL-CC

WWWW	P	J	LL	CC
Wavelength	**Port**	**Fiber Jacket**	**Fiber Length**	**Connector**
1400 - 1400nm	3 - 3 Ports	B - 250um Bare Fiber	05 - 0.5m	NE - None
1420 - 1420nm		9 - 900um Loose Tube	10 - 1.0m	FA - FC/APC
1430 - 1430nm		2 - 2mm Loose Tube	15 - 1.5m	FU - FC/UPC
1450 - 1450nm		3 - 3mm Loose Tube	20 - 2.0m	SA - SC/APC
1480 - 1480nm			SS - Specify	SU - SU/APC
SSSS - Specify				LA - LC/APC
				LU - LC/UPC
				SS - Specify