

1580nm 4-port Polarization Insensitive Optical Circulator

1580nm 4-port Polarization Insensitive Optical Circulator is a fiber passive component built with SM fiber, which can change signal light transmission path, the signal can be delivered from Port 1 to Port 2, Port 2 to Port 3, Port 3 to Port 4, the high isolation can block the back reflection light. It's widely used in WDM System, Fiber Optic Sensor and Coherent Detecting field.

Application:

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

Features:

Low PDL
High Isolation
Low Insertion Loss
High Reliability



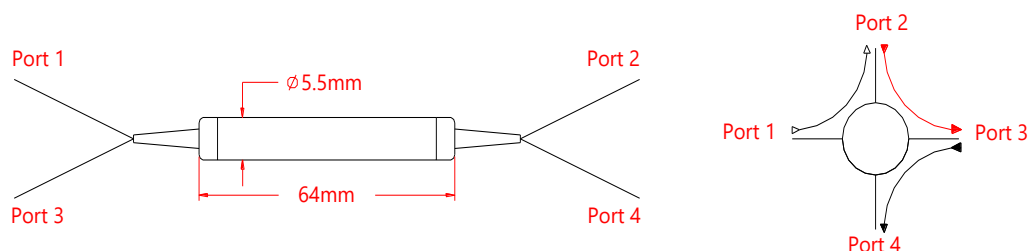
Specification:

Parameter	Symbol	Value	Unit
Center Wavelength	λ	1580	nm
Bandwidth	BW	± 30	nm
Typ. Insertion Loss (Port 1 to 2, 2 to 3, 3 to 4)	IL	0.8	dB
Max. Insertion Loss (Port 1 to 2, 2 to 3, 3 to 4)	IL	1.0	dB
Typ. Isolation (Port 2 to 1, 3 to 2, 4 to 3)	Iso	50	dB
Min. Isolation (Port 2 to 1, 3 to 2, 4 to 3)	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. Tensile Load		5	N
Fiber Type		SMF-28e fiber	-
Operating Temperature	T	0~70	°C
Storage Temperature	T	-40~85	°C
Package Dimension		$\Phi 5.5 \times L64$	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-J-LL-CC				
WWW	P	J	LL	CC
Wavelength	Port	Fiber Jacket	Fiber Length	Connector
1510 - 1510nm 1530 - 1530nm 1550 - 1550nm 1560 - 1560nm 1570 - 1570nm 1580 - 1580nm SSSS - Specify	4 - 4 Ports	B - 250um Bare Fiber 9 - 900um Loose Tube	05 - 0.5m 10 - 1.0m 15 - 1.5m 20 - 2.0m SS - Specify	NE - None FA - FC/APC FU - FC/UPC SA - SC/APC SU - SU/APC LA - LC/APC LU - LC/UPC SS - Specify