

## 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



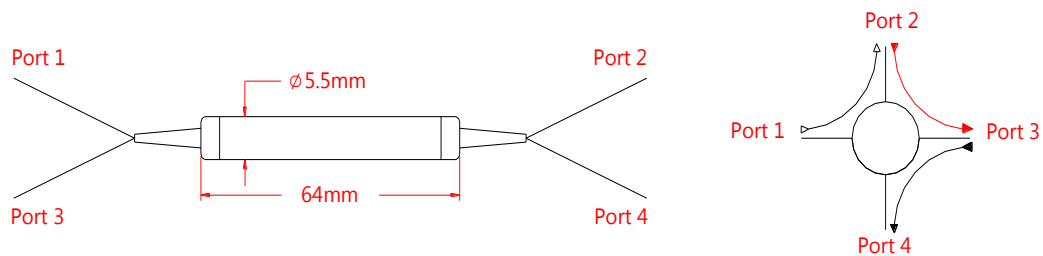
### Specification:

Parameter	Symbol	Value	Unit
Center Wavelength	$\lambda$	1580	nm
Bandwidth	BW	$\pm 30$	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	-5~70	°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- <b>WWW</b> - <b>P</b> - <b>J</b> - <b>LL</b> - <b>CC</b>				
<b>WWW</b>	<b>P</b>	<b>J</b>	<b>LL</b>	<b>CC</b>
Wavelength	Port	Fiber Jacket	Fiber Length	Connector
1310 - 1310nm	4 - 4 Ports	B - 250um Bare Fiber	05 - 0.5m	NE - None
1450 - 1450nm		9 - 900um Loose Tube	10 - 1.0m	FA - FC/APC
1480 - 1480nm			15 - 1.5m	FU - FC/UPC
1550 - 1550nm			20 - 2.0m	SA - SC/APC
1580 - 1580nm			SS - Specify	SU - SU/APC
				LA - LC/APC
				LU - LC/UPC
				SS - Specify