

## 1450nm 4-port Polarization Maintaining Optical Circulator

1450nm 4-port Polarization Maintaining 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 Fiber Amplifier System, Fiber Optic Sensor and Testing System field.

### Application:

Fiber Optic Sensor  
Fiber Optic Amplifier  
Coherent Detecting  
Testing System

### Features:

High Extinction Ratio  
High Isolation  
Low Insertion Loss  
High Reliability



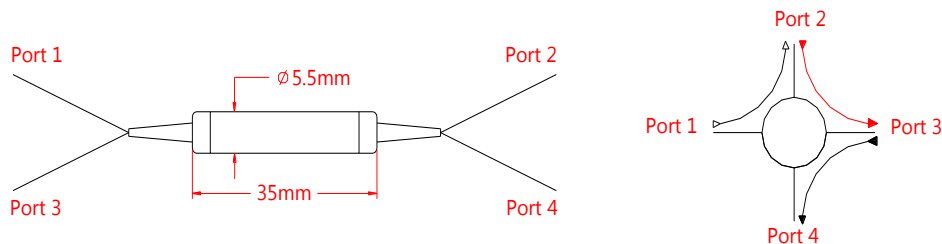
### Specification:

Parameter	Symbol	Value	Unit
Center Wavelength	$\lambda$	1450	nm
Bandwidth	BW	$\pm 20$	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
Min. Extinction Ratio	ER	20	dB
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		PM Panda fiber	-
Operating Temperature	T	-5~50	$^{\circ}\text{C}$
Storage Temperature	T	-40~85	$^{\circ}\text{C}$
Package Dimension		$\Phi 5.5 \times L35$	mm

Notice: Above specifications are tested at center wavelength without connector in room temperature @23 $^{\circ}\text{C}$ .

For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower, ER will be 2dB lower, slow axis is default aligned to the connector key.

### Drawing:



### Ordering Information (Part Number):

PM CIR- <b>WWWW</b> - <b>P</b> - <b>A</b> - <b>J</b> - <b>LL</b> - <b>CC</b>					
<b>WWWW</b>	<b>P</b>	<b>A</b>	<b>J</b>	<b>LL</b>	<b>CC</b>
Wavelength	Port	Working Axis	Fiber Jacket	Fiber Length	Connector
1310 - 1310nm	4 - 4 Ports	F - Fast Axis Blocked Slow Axis Working B - Both Axes Working	B - 250um Bare Fiber 9 - 900um Loose Tube	05 - 0.5m	NE - None
1450 - 1450nm				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