

## 1550nm PM 3-port Optical Circulator

1550nm Polarization Maintaining (PM) 3-port Optical Circulator is a fiber passive component built with PM fiber, 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.

### Application:

Fiber Optic Amplifier  
Fiber Optic Sensor  
Laser System  
Coherent Detecting

### Features:

High Extinction Ratio  
High Isolation  
Low Insertion Loss  
High Reliability



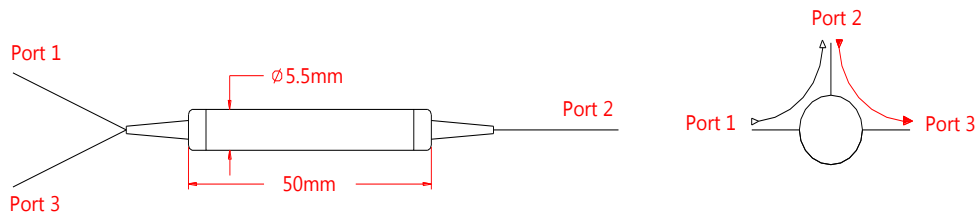
### Specification:

Parameter	Symbol	Value	Unit
Center Wavelength	$\lambda$	1550	nm
Bandwidth	BW	$\pm 30$	nm
Typ. Insertion Loss (Port 1 to 2, 2 to 3)	IL	0.7	dB
Max. Insertion Loss (Port 1 to 2, 2 to 3)	IL	0.9	dB
Typ. Isolation (Port 2 to 1, 3 to 2)	Iso	46	dB
Min. Isolation (Port 2 to 1, 3 to 2)	Iso	40	dB
Min. Extinction Ratio	ER	22	dB
Min. Cross Talk	Ct	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	-5~70	°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, ER will be 2dB lower, slow axis is default aligned to the connector key.

### Drawing:



### Ordering Information (Part Number):

PM CIR-**WWW**-**P**-**A**-**J**-**LL**-**CC**

<b>WWW</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	3 - 3 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