

1580nm PM 4-port Optical Circulator

1580nm PM 4-port 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, 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. High Power version is available upon request.

Application:

Fiber Optic Sensor
Fiber Optic Amplifier
Coherent Detecting
Testing System

Features:

High Extinction Ratio
High Isolation
Low Insertion Loss
High Reliability



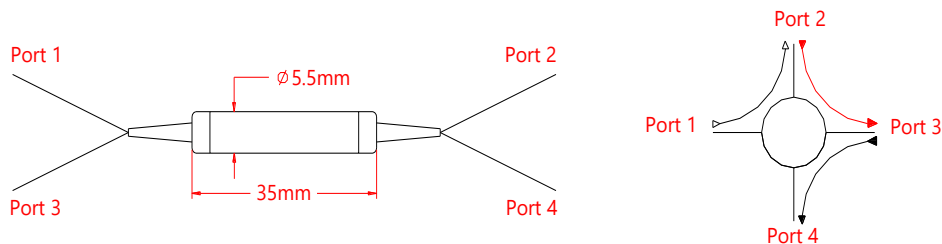
Specification:

Parameter	Symbol	Value	Unit
Center Wavelength	λ	1580	nm
Bandwidth	BW	± 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	°C
Storage Temperature	T	-40~85	°C
Package Dimension		$\Phi 5.5 \times L35$	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					
WWW	P	A	J	LL	CC
Wavelength	Port	Working Axis	Fiber Jacket	Fiber Length	Connector
1510 - 1510nm	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
1530 - 1530nm				10 - 1.0m	FA - FC/APC
1550 - 1550nm				15 - 1.5m	FU - FC/UPC
1560 - 1560nm				20 - 2.0m	SA - SC/APC
1570 - 1570nm				SS - Specify	SU - SU/APC
1580 - 1580nm					LA - LC/APC
SSSS - Specify					LU - LC/UPC
					SS - Specify