1510nm PM 3-port Optical Circulator

1510nm PM 3-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, 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. High Power version is also available upon request.

Application:

Fiber Optic Amplifier
Fiber Optic Sensor
Laser System
Coherent Detecting

Features

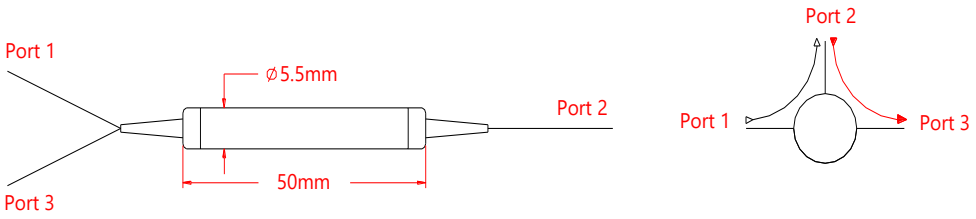
High Extinction Ratio
High Isolation
Low Insertion Loss
High Reliability

Specification:

Parameter	Symbol	Value	Unit
Center Wavelength	λ	1510	nm
Bandwidth	BW	±30	nm
Typ. Insertion Loss (Port 1 to 2, 2 to 3)	IL	0.6	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	50	dB
Min. Isolation (Port 2 to 1, 3 to 2)	Iso	40	dB
Min. Extinction Ratio	ER	20	dB
Min. Cross Talk	Ct	50	dB
Min. Return Loss	RL	50	dB
Max. Optical Power (CW)	P	500	mW
Max. Tensil Load		5	N
Fiber Type		PM Panda fiber	-
Operating Temperature	T	-5~70	℃
Storage Temperature	T	-40~85	℃
Package Dimension		Φ5.5×L50	mm

Notice: Above specifications are tested at center wavelength without connector in room temperature @23℃.
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):

PMCIR-WWWW-P-A-J-LL-CC

WWWW	P	A	J	LL	CC
Wavelength	**Port**	**Working Axis**	**Fiber Jacket**	**Fiber Length**	**Connector**
1510 - 1510nm 1530 - 1530nm 1550 - 1550nm 1560 - 1560nm 1570 - 1570nm 1580 - 1580nm SSSS - Specify	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 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