

1053nm PM 3-port Optical Circulator

1053nm 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

Feature

High Extinction Ratio
High Isolation
Low Insertion Loss
High Reliability



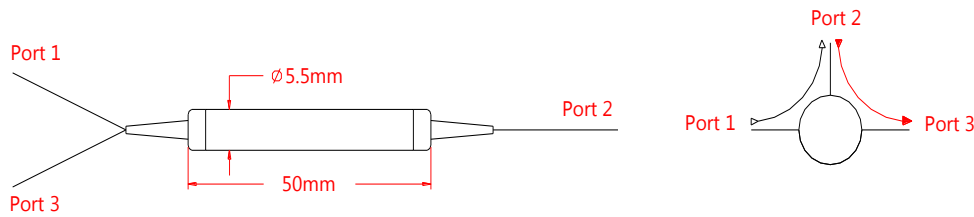
Specification:

Parameter	Symbol	Value	Unit
Center Wavelength	λ	1053	nm
Bandwidth	BW	± 5	nm
Typ. Insertion Loss (Port 1 to 2, 2 to 3)	IL	2.2	dB
Max. Insertion Loss (Port 1 to 2, 2 to 3)	IL	2.7	dB
Typ. Isolation (Port 2 to 1, 3 to 2)	Iso	30	dB
Min. Isolation (Port 2 to 1, 3 to 2)	Iso	20	dB
Min. Extinction Ratio	ER	20	dB
Min. Cross Talk	Ct	50	dB
Min. Return Loss	RL	50	dB
Max. Optical Power (CW)	P	150	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		$\Phi 5.5 \times L50$	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

WWW	P	A	J	LL	CC
Wavelength	Port	Working Axis	Fiber Jacket	Fiber Length	Connector
1050 - 1050nm	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
1053 - 1053nm					FA - FC/APC FU - FC/UPC SA - SC/APC SU - SU/APC LA - LC/APC LU - LC/UPC SS - Specify