

1580nm RC80 3-port PM Optical Circulator

1580nm 3-port RC80 Polarization Maintaining Optical Circulator is a fiber passive component built with RC80 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 WDM System, Fiber Optic Sensor and Coherent Detecting field. High Power type is available upon request.

Application:

Fiber Optic Sensor
CWDM, DWDM System
Coherent Detecting
Fiber Optic Amplifier

Features:

Low PDL
High Isolation
Low Insertion Loss
High Reliability



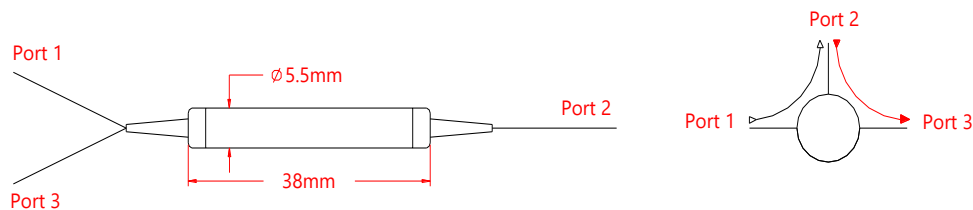
Specification:

Parameter	Symbol	Value	Unit
Center Wavelength	λ	1580	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	22	dB
Max. Polarization Mode Dispersion	PMD	0.1	ps
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		RC80 PM Panda fiber	-
Operating Temperature	T	0~70	°C
Storage Temperature	T	-40~85	°C
Package Dimension		$\Phi 5.5 \times L38$	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.

Drawing:



Ordering Information (Part Number):

RPMCIR- WWW - P - A - J - LL - CC					
WWW	P	A	J	LL	CC
Wavelength	Port	Working Axis	Fiber Jacket	Fiber Length	Connector
1310 - 1310nm	3 - 3 Ports	F - Fast Axis Blocked	B - 165um Bare Fiber	05 - 0.5m	NE - None
1450 - 1450nm		B - Both Axes Working		10 - 1.0m	
1480 - 1480nm				15 - 1.5m	
1550 - 1550nm				20 - 2.0m	
1580 - 1580nm				SS - Specify	