

1580nm High Power PM 3-port Optical Circulator

1580nm High Power 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, Fiber Optic Sensor and Coherent Detecting field. The Optical Power can be up to 30W CW upon request.

Application:

Fiber Laser
Fiber Optic Sensor
Coherent Detecting
Testing System

Features:

High Power
High Extinction Ratio
High Isolation
High Reliability



Specification:

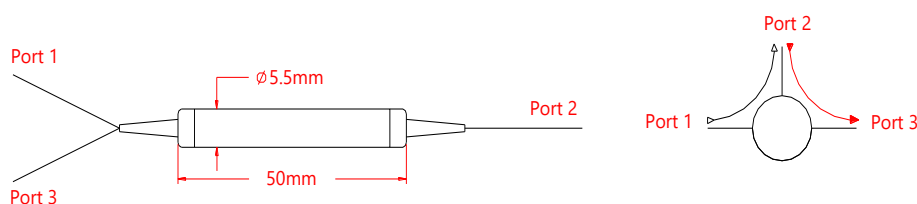
Parameter	Symbol	Value	Unit
Center Wavelength	λ	1580	nm
Bandwidth	BW	± 10	nm
Typ. Insertion Loss (Port 1 to 2, 2 to 3)	IL	0.8	dB
Max. Insertion Loss (Port 1 to 2, 2 to 3)	IL	1.0	dB
Typ. Isolation (Port 2 to 1, 3 to 2)	Iso	45	dB
Min. Isolation (Port 2 to 1, 3 to 2)	Iso	35	dB
Min. Extinction Ratio	ER	20	dB
Min. Cross Talk	Ct	50	dB
Min. Directivity		50	dB
Min. Return Loss	RL	50	dB
Max. Optical Power (CW)	P	1, 3, 5, 10, 15, 20, 30 or specify	W
Max. Peak Power	P	5, 10 or specify	kW
Max. Tensile Load		5	N
Fiber Type		PM 1550, PM-GDF-1550, PM12/130DC, PM25/300DC fiber	-
Operating Temperature	T	-5~70	°C
Storage Temperature	T	-40~85	°C
Package Dimension		$\Phi 5.5 \times L50$ or $L90 \times W12 \times H10$	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. Connectors only 1W CW optical power guarantee.

Drawing:



Ordering Information (Part Number):

HPMCIR-**WWW**-**P**-**A**-**HH**-**FF**-**J**-**LL**-**CC**

WWW	P	A	HH	FF	J	LL	CC
Wavelength	Port	Working Axis	Handling Power	Fiber Type	Fiber Jacket	Fiber Length	Connector
1510 - 1510nm	3 - 3 Ports	F - Fast Axis Blocked Slow Axis Working B - Both Axes Working	01 - 1W	P5 - PM 1550	B - 250um Bare Fiber	05 - 0.5m	NE - None
1530 - 1530nm			03 - 3W	D1 - PM-GDF-1550	9 - 900um Loose Tube	10 - 1.0m	FA - FC/APC
1550 - 1550nm			05 - 5W	D3 - PM12/130DC	2 - 2.0mm Loose Tube	15 - 1.5m	FU - FC/UPC
1560 - 1560nm			10 - 10W	D4 - PM25/300DC	3 - 3.0mm Loose Tube	20 - 2.0m	SS - Specify
1570 - 1570nm			15 - 15W				
1580 - 1580nm			20 - 20W				
SSSS - Specify			30 - 30W				
			SS - Specify				