

2000nm High Power PM 3-port Optical Circulator

2000nm 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 System, Fiber Optic Sensor and Coherent Detecting field. The Optical Power can be up to 20W CW upon request.

Application:

Fiber Laser
Fiber Optic Sensor
Coherent Detecting
Testing System

Features:

High Power
High Extinction Ratio
High Isolation
High Reliability



Specification:

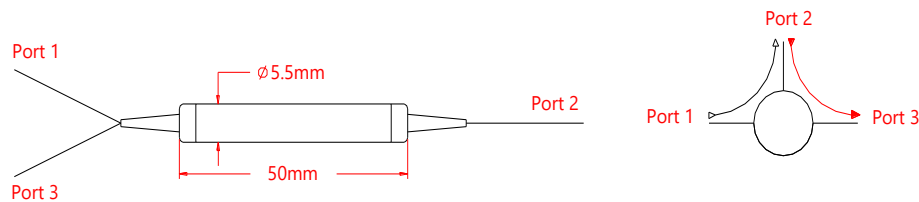
Parameter	Symbol	Value	Unit
Center Wavelength	λ	2000	nm
Bandwidth	BW	± 10	nm
Typ. Insertion Loss (Port 1 to 2, 2 to 3)	IL	0.9	dB
Max. Insertion Loss (Port 1 to 2, 2 to 3)	IL	1.2	dB
Typ. Isolation (Port 2 to 1, 3 to 2)	Iso	32	dB
Min. Isolation (Port 2 to 1, 3 to 2)	Iso	25	dB
Min. Extinction Ratio	ER	20	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 or specify	W
Max. Peak Power	P	5, 10 or specify	kW
Max. Tensile Load		5	N
Fiber Type		PM 1550, PM 1950, PM10/130DC, PM25/250DC, PM25/400DC	-
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):

WWW	P	A	HH	FF	J	LL	CC
Wavelength	Port	Working Axis	Handling Power	Fiber Type	Fiber Jacket	Fiber Length	Connector
1900 - 1900nm	3 - 3 Ports	F - Fast Axis Blocked	01 - 1W	P5 - PM 1550	B - 250um Bare Fiber	05 - 0.5m	NE - None
1940 - 1940nm		Slow Axis Working	03 - 3W	P1 - PM 1950	9 - 900um Loose Tube	10 - 1.0m	FA - FC/APC
1950 - 1950nm		B - Both Axes Working	05 - 5W	D1 - PM-GDF-1550	2 - 2.0mm Loose Tube	15 - 1.5m	FU - FC/UPC
2000 - 2000nm			10 - 10W	D2 - PM10/130DC	3 - 3.0mm Loose Tube	20 - 2.0m	SS - Specify
2050 - 2050nm			15 - 15W	D3 - PM25/250DC			
2100 - 2100nm			20 - 20W	D4 - PM25/400DC			
2200 - 2200nm			SS - Specify	SS - Specify			
SSSS - Specify							