4-Port Polarization Maintaining Optical Circulator (DPMCIR Series)

Rev 11

Description

The 4-Port Polarization Maintaining Optical Circulator is a compact, high performance lightwave component that routes incoming signals from Port 1 to Port 2, incoming Port 2 signals to Port 3, and incoming Port 3 signals to Port 4. This PM Optical Circulator provides high isolation, low insertion loss, high extinction ratio, and excellent environmental stability.

Key Features

- High Isolation
- Low Insertion Loss
- High Extinction Ratio

Applications

- Fiber Optic Instruments
- Fiber Lasers

Specifications

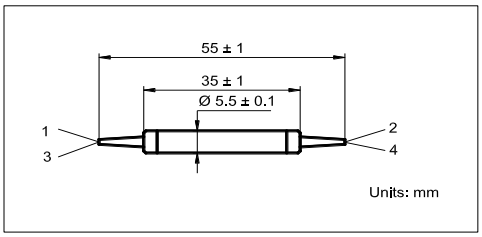
Parameter	Unit	Type A	Type B
Center Wavelength (λc)	nm	1064	
Typ. Insertion Loss, λc, 23 ℃	dB	3.8	2.4
Max. Insertion Loss, λc, 23 ℃	dB	4.2	2.8
Typ. Isolation, λc, 23 ℃	dB	52	30
Min. Isolation, λc, 23 ℃	dB	45	20
Min. Extinction Ratio, 23 ℃	dB	20	20
Min. Directivity (1 - > 3, 2 - > 4)	dB	50	
Min. Return Loss	dB	50	
Max. Optical Power (Continuous Wave)	mW	300	
Max. Tensile Load	N	5	
Fiber Type	–	PM 980 Panda Fiber	
Operating Temperature	℃	- 5 to + 50	
Storage Temperature	℃	- 40 to + 85	

[1]IL is 0.5 dB higher, RL is 5 dB lower, and ER is 2 dB lower for each connector added. Connector key is aligned to slow axis.

[2]The routing path: Type A: 1 - > 2, 2 - > 3, 3 - > 4; Type B: 1 - > 2, 2 - > 3, 3 - > 4, 4 - > 1.

[3]The optical path is aligned to slow axis while fast axis is blocked.

Package Dimensions



Ordering Information

DPMCIR-①①-②-③-④-⑤

①①: Wavelength	②: Type	③: Connector Type		④: Fiber Jacket	⑤: Fiber Length
06 - 1064 nm	1 - Type A	1 - FC/UPC	4 - SC/APC	B - 250 μm Bare Fiber	Q - 0.75 m
SS - Specify	2 - Type B	2 - FC/APC	N - None	L - 900 μm Loose Tube	S - Specify
		3 - SC/UPC	S - Specify	S - Specify	