



4- port Polarization Maintaining Optical (DPMCIR Series)

Rev 11

The 2 x 2 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 component provides high isolation, low insertion loss, high extinction ratio, and excellent environment stability.

Specifications

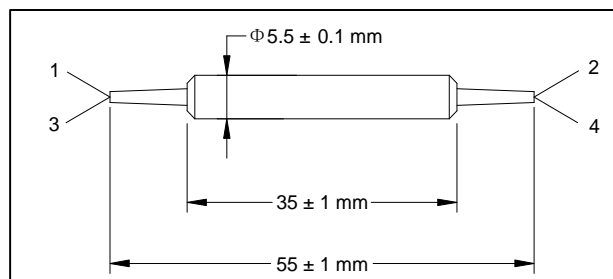
Parameter	Unit	Type A	Type B
Center Wavelength (λ_c)	nm	1310 or 1550	
Operating Wavelength Range	nm	$\lambda_c \pm 30$	$\lambda_c \pm 20$
Typ. Insertion Loss, λ_c , 23 °C,	dB	0.8	0.7
Max. Insertion Loss, all temperature, all wavelength range	dB	1.1	1.0
Peak Isolation	dB	52	40
Typ. Isolation, λ_c , 23 °C	dB	50	30
Min. Isolation, all wavelength range, 23 °C	dB	40	22
Min. Extinction Ratio	dB	20	20
Min. Crosstalk (1 → 3, 2 → 4)	dB	50	
Min. Return Loss	dB	55	
Max. Optical Power (Continuous Wave)	mW	300	
Max. Tensile Load	N	5	
Operating Temperature	°C	-5 to +70	
Storage Temperature	°C	-40 to +85	

*IL is 0.3 dB higher, RL is 5 dB lower, and ER is 2 dB lower for each connector added. Connector key is aligned to slow axis.

*The routing path: Type A: 1 → 2, 2 → 3, 3 → 4; Type B: 1 → 2, 2 → 3, 3 → 4, 4 → 1.

*The optical path is aligned to slow axis and 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

31 - 1310 nm

1 - Type A

1 - FC/UPC

B - 250 μ m bare fiber

Q - 0.75 m

55 - 1550 nm

2 - Type B

2 - FC/APC

L - 900 μ m loose tube

S - Specify

SS - Specify

3 - SC/UPC

S - Specify

4 - SC/APC

N - None

S - Specify