



4-Port Polarization Maintaining Optical Circulator (DPMCIR Series)

Rev 11

Description

The 2 × 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 optical circulator provides high isolation, low insertion loss, high extinction ratio, and excellent environmental stability.

Key Features

- High Isolation
- Low Insertion Loss

Applications

- Fiber Lasers
- Fiber Optic Instruments

Specifications

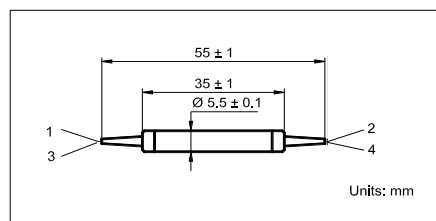
Parameter	Unit	Value	
Type	-	Type A	Type B
Center Wavelength (λ_c)	nm	1310 or 1550	
Operating Wavelength Range	nm	$\lambda_c \pm 30$	$\lambda_c \pm 20$
Typ. Insertion Loss, λ_c	dB	0.8	0.7
Max. Insertion Loss, All Temperature, All Wavelength Range	dB	1.1	1.0
Peak Isolation	dB	52	40
Typ. Isolation, λ_c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

¹IL 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.

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

³The optical path is aligned to slow axis and fast axis is blocked.

Package Dimensions



Ordering Information

DPMCIR-①①-②-③-④-⑤

①①: Wavelength

31 - 1310 nm

55 - 1550 nm

SS - Specify

②: Type

1 - Type A

2 - Type B

③: Connector Type

1 - FC/UPC

2 - FC/APC

3 - SC/UPC

4 - SC/APC

N - None

S - Specify

④: Fiber Jacket

B - 250 µm Bare Fiber

L - 900 µm Loose Tube

S - Specify

⑤: Fiber Length

Q - 0.75 m

S - Specify