

4-Port Polarization Maintaining Circulator (DPMCIR Series)

Description

Rev 11

The 2 × 2 Polarization Maintaining 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

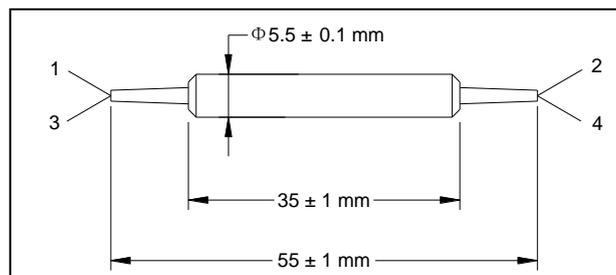
Parameter	Unit	Type A	Type B
Center Wavelength (λ_c)	nm	1310, 1550	
Operating Wavelength Range	dB	$\lambda_c \pm 30$	$\lambda_c \pm 20$
Typ. Insertion Loss, λ_c , 23 °C	dB	0.8	0.7
Max. Insertion Loss, all temperature, all wavelength range	dB	1.1	1.0
Peak Isolation	dB	52	40
Typ. Isolation, λ_c , 23 °C	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

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	②: Type	③: Connector Type	④: Fiber Jacket	⑤: Fiber Length
31 - 1310 nm	1 - Type A	1 - FC/UPC	B - 250 μm Bare Fiber	Q - 0.75 m
55 - 1550 nm	2 - Type B	2 - FC/APC	L - 900 μm Loose Tube	S - Specify
SS - Specify		3 - SC/UPC	S - Specify	
		4 - SC/APC		
		N - None		
		S - Specify		