4-Port Polarization Maintaining Circulator (GK-DPMCIR Series)

Description

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.

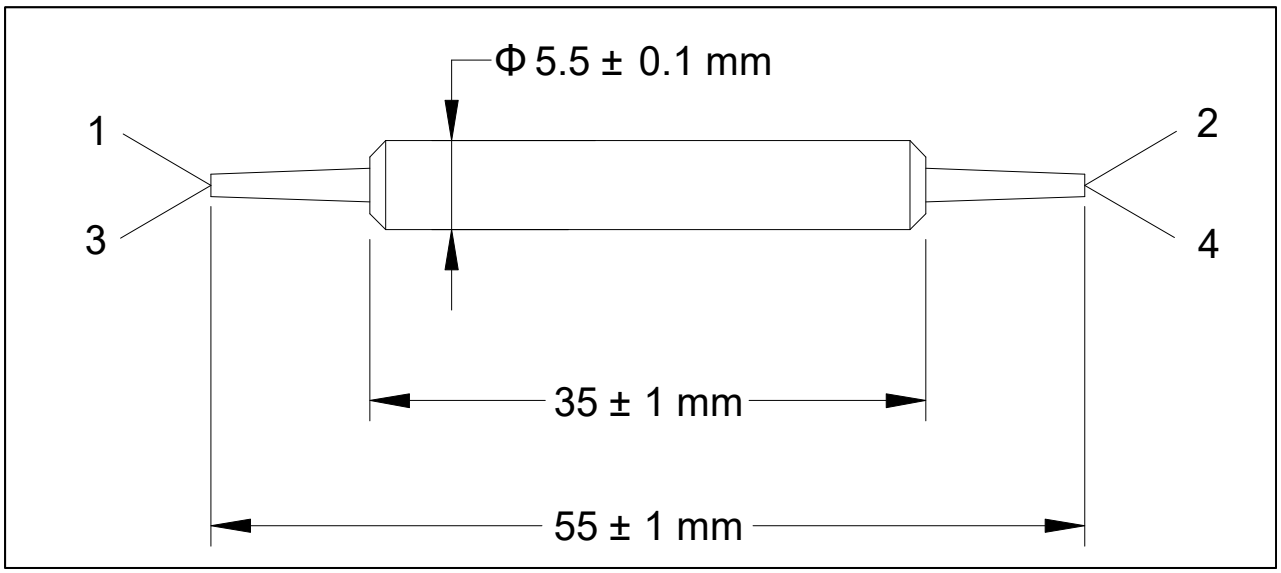
Specifications

Parameter	Unit	Type A Type B
Center Wavelength (λc)	nm	2000
Operating Wavelength Range	dB	λc ± 30 λc ± 20
Typ. Insertion Loss (for Type1), λc, 23 ℃	dB	1.3 1.2
Max. Insertion Loss (for Type1), - 5 to + 70 ℃, all wavelength	dB	1.6 1.5
rangeTyp. Insertion Loss (for Type2), λc, 23 ℃	dB	1.5 1.4
Max. Insertion Loss (for Type2), - 5 to + 70℃, all wavelength range	dB	1.8 1.7
Peak Isolation	dB	52 40
Typ. Isolation, λc, 23 ℃	dB	50 30
Min. Isolation, all wavelength range, 23 ℃	dB	40 20
Min. Extinction Ratio	dB	18 18
Min. Crosstalk (1 → 3, 2 → 4)	dB	50
Min. Return Loss	dB	55
Max. Optical Power (Continuous Wave)	mW	300
Fiber Type	-	Type1: PM 1550 Panda Fiber for all Ports Type2: PM 1950 Panda Fiber for all Ports
Max. Tensile Load	N	5
Operating Temperature	℃	- 5 to + 70
Storage Temperature	℃	- 40 to + 85

[1]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.

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

Package Dimensions



Ordering Information

GK-DPMCIR-①-②-③-④-⑤-⑥

①: Wavelength

2000 - 2000 nm

SS - Specify

②: Type

1 - Type A

2 - Type B

③: Connector Type

1 - FC/UPC 4 - SC/APC

2 - FC/APC N - None

3 - SC/UPC 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

⑥: Fiber Type

1 - Type1: PM 1550

2 - Type2: PM 1950