Polarization Maintaining Optical Circulator (PMCIR Series)

Spec Review No.: SR12570D Date: Jan. 24, 2017

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

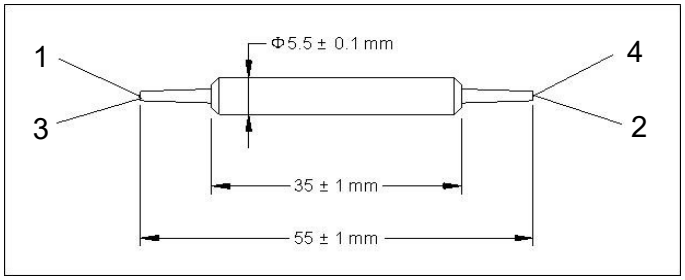
Specifications

Parameter	Unit	Type A
Center Wavelength (λc)	nm	1550
Operating Wavelength Range	nm	± 20
Max. Insertion Loss (1 → 2, 2 → 3)	dB	0.9
Tap Insertion Loss Range (1 → 4, for 1% port)	dB	20 ~ 26
Peak Isolation	dB	50
Typ. Isolation, λc, 23 ℃	dB	38
Min. Isolation, 23 ℃	dB	35
Min. Extinction Ratio	dB	20
Min. Crosstalk	dB	50
Min. Return Loss	dB	50
Max. Average Optical Power	W	0.3 … 5
Max. Peak Power for ns pulse	kW	10
Max. Tensile Load	N	5
Operating Temperature	℃	-5 to + 70
Storage Temperature	℃	-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.

**Optical Power is 1W only for each connector added. The optical path is aligned to slow axis and fast axis is blocked.

Package Dimensions



Ordering Information

PMCIRT-①①-②-③-④-⑤-⑥-C

①①: Wavelength
55 - 1550 nm
S - Specify

③: Connector Type
1 - FC/UPC
2 - FC/APC
3 - SC/UPC
4 - SC/APC
N - None
S - Specify

②: Type
1 - Type A

⑥: Working Axis
F - Fast axis blocked

PMCIRT-①①-②-③-④-⑤-P

④: Fiber Type
B - 250 μm bare fiber
L - 900 μm loose tube
S - Specify

⑤: Fiber Length
Q - 0.75 m
S - Specify