



Polarization Maintaining Optical Circulator (PM CIR Series)

Rev 11

Description

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. This PM Optical Circulator provides high isolation, low insertion loss, high extinction ratio, and excellent environmental stability.

Key Features

- High Isolation
- Low Insertion Loss
- High Extinction Ratio

Applications

- Fiber Sensing
- Raman Amplifier
- EDFA

Specifications

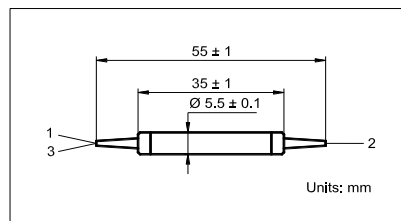
Parameter	Unit	Value	
Type	-	Type A	Type B
Center Wavelength (λ_c)	nm	1310 or 1550	
Operating Wavelength Range	nm	$\lambda_c \pm 30$	$\lambda_c \pm 20$
Typ. Insertion Loss, λ_c	dB	0.7	0.6
Max. Insertion Loss	dB	0.9	0.8
Peak Isolation	dB	52	40
Typ. Isolation, λ_c	dB	46	30
Min. Isolation	dB	40	20
Min. Extinction Ratio	dB	22	20
Min. Crosstalk	dB	50	
Min. Return Loss	dB	50	
Max. Optical Power (Continuous Wave)	mW	300	
Max. Tensile Load	N	5	
Fiber Type	-	PMF	
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 optical path is aligned to slow axis and fast axis is blocked.

³All of above value are tested at room temperature @ 23 °C, unless other specified.

Package Dimensions



Ordering Information

PM CIR-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	4 - SC/APC	B - 250 μm Bare Fiber	Q - 0.75 m
55 - 1550 nm	2 - Type B	2 - FC/APC	N - None	L - 900 μm Loose Tube	S - Specify
SS - Specify		3 - SC/UPC	S - Specify	S - Specify	