Advanced Fiber Resources (Hong Kong), Ltd.

Polarization Maintaining Optical Circulator (PMCIR Series)

Rev 11

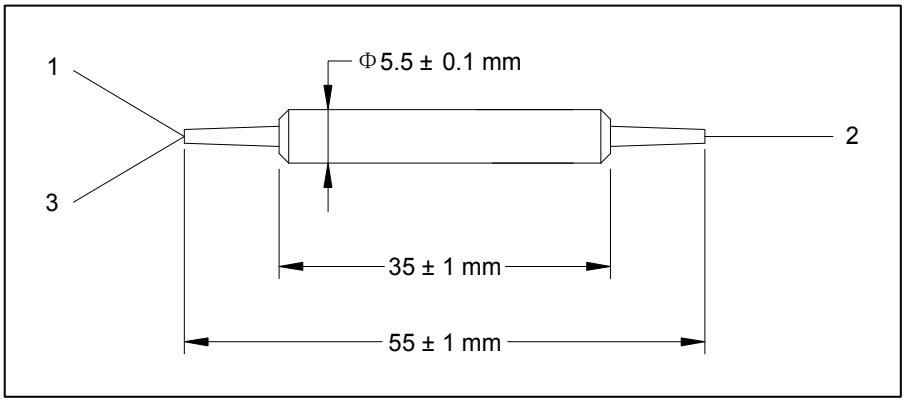
The Polarization Maintaining Optical Circulator is a compact high performance lightwave component that routes incoming signals from Port 1 to Port 2, and incoming Port 2 signals to Port 3. The component provides high isolation, low insertion loss, high extinction ratio, and excellent environment stability.

Specifications

Parameter	Unit	Type A	Type B
Center Wavelength (λc)	nm	1310 or 1550	
Operating Wavelength Range	nm	λc ± 30	λc ± 20
Typ. Insertion Loss, λc, 23 ℃	dB	0.7	0.6
Max. Insertion Loss	dB	0.9	0.8
Peak Isolation	dB	52	40
Typ. Isolation, λc, 23 ℃	dB	46	30
Min. Isolation, 23 ℃	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	
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.

Package Dimensions



Ordering Information

PMCIR-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 Panda 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		

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