



# Polarization-Maintaining Optical Circulator (3 & 4 port)

ACP's polarization maintaining optical circulator utilizes proprietary designs and metal bonding micro optics packaging. It provides low insertion loss, broad band high isolation, high extinction ratio, excellent temperature stability and epoxy free optical path. It can be used for wavelength add/drop, dispersion compensation, and EDFA applications.

## FEATURES

- Low Insertion Loss
- Wide Band, High Isolation
- High Extinction Ratio
- Compact In-line Package
- High Stability and Reliability
- Epoxy Free Optical Path

## APPLICATION

- Optical Amplifier
- Metro Area Network
- Wavelength Add/Drop
- Dispersion Compensation
- Bi-directional Communication

## PERFORMANCE SPECIFICATIONS

Parameter	Specifications	
	3	4
Number of Ports	3	4
Operating Wavelength	1310 or 1550nm	1310 or 1550nm
Bandwidth	± 20nm	± 20nm
Grade	P   A	P
Configuration	P1 - P2 and P2- P3	P1 - P2, P2 - P3 and P3 - P4
Typical Peak Isolation	40dB	40dB
Minimum Isolation*	≥ 25dB	≥ 30dB
Insertion Loss (Typ.)	0.60dB   0.80dB	1.0dB
Insertion Loss (Max)	≤ 0.80dB   ≤ 1.0dB	≤ 1.3dB
Return Loss	≥ 55dB   ≥ 55dB	≥ 55dB
Extinction Ratio*	≥ 20dB   ≥ 20dB	≥ 16dB
Channel Crosstalk	≥ 50dB   ≥ 50dB	≥ 50dB
Optical Power	≤ 500mW	≤ 300mW
Operating Temperature	0 to +70°C	
Storage Temperature	- 40 to +85°C	
Package Dimensions	A=Φ5.5xL63 (Both axes working) Φ5.5xL35 (Slow or fast axis working) M=Φ5.5xL50 (Both axes working)	

Note:

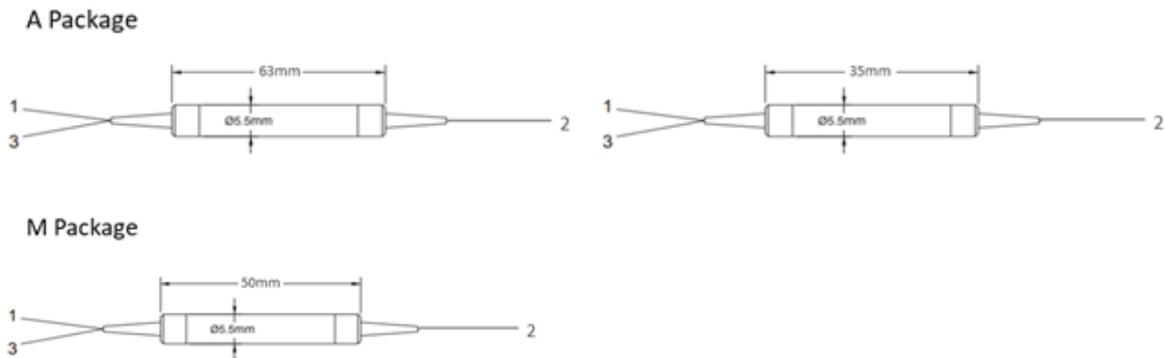
\*Extinction ratio is guaranteed from 10 ~ 50°C.

1. The PM fiber and the connector key are aligned to the slow axis.
2. ER value applies to fiber ≤ 0.75m. Increased fiber length will decrease ER.
3. For each connector, IL will be 0.3dB higher, RL 5dB lower, and ER 2dB lower.

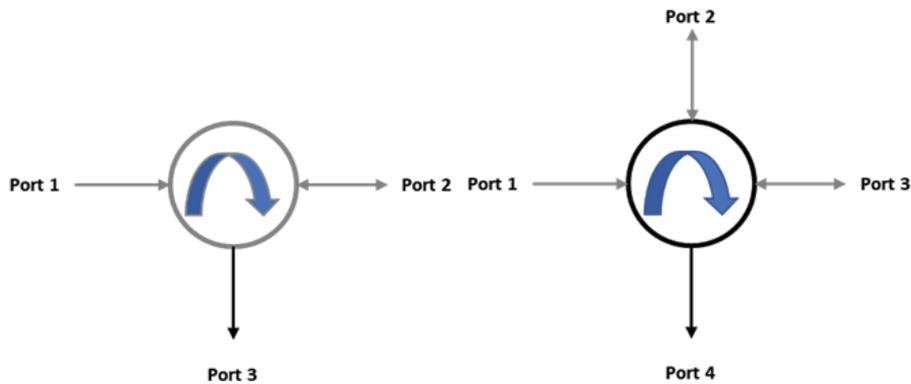
All values referenced are without connector.

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### MECHANICAL DIMENSIONS



### PORT CONFIGURATIONS



### ORDERING INFORMATION

PMOC	Port	Grade	Operating Wavelength	Package	Fiber Type	Pigtail Style	Fiber Length	In Connector	Out Connector	Working axis
3=3 Port	P=P Grade	31=1310nm	A=A package	M=PM1310	1=Bare fiber	07=0.75m	0= None	0= None	S=Slow axis working	
4=4 Port	A=A Grade	55=1550nm	M=M package	N=PM1550	2=900um loose tube	10=1.0m	1= FC/APC	1= FC/APC	F=Fast axis working	
							2= FC/PC	2= FC/PC	B=Both axes working	
							3= SC/APC	3= SC/APC		
							4= SC/PC	4= SC/PC		
							5= ST	5= ST		
							6= LC/UPC	6= LC/UPC		
							7= LC/APC	7= LC/APC		