

## 4-PORT OPTICAL CIRCULATORS

### Features:

Smallest Package Size  
 Low Insertion Loss  
 Low PDL  
 Highly Stable&Reliable  
 Low Insertion Loss  
 High Channel Isolation  
 Epoxy-free Optical Path

### Applications:

Optical Amplification  
 Metropolitan Area Network  
 Dynamic Gain Equalization  
 Dispersion Compensation  
 Laboratory R&D



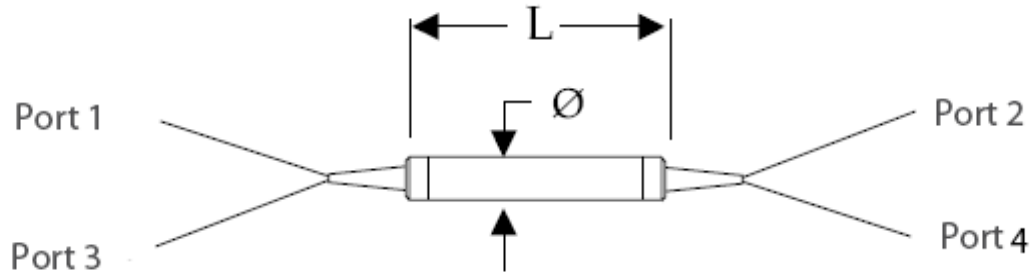
### Performance Specification

3PORT-CIR Series		Min	Typical	Max	Unit
Operating Wavelength Range	1310	1290~1330			nm
	C Band	1525~1570			
	L Band	1570~1610			
	C+L Band	1525~1610			nm
Insertion Loss(1→2, 2→3, 3→4@, SOP, exclude connectors)	1310, C or L	0.6		0.8	dB
	C+L Band	0.7		0.9	dB
Polarization Dependent Loss(PDL)	1310, C or L			0.06	dB
	C+L Band			0.1	dB
POLarization Mode Dispersion(PMD)	1310, C or L			0.15	ps
	C+L Band			0.18	ps
Insertion (2→1, 3→2, 4→3@, SOP)	1310, C or L	38			dB
	C+L Band	32			dB
Return Loss		50			dB
Directivity(1→3, 2→4)		50			dB
Chromatic Dispersion				3	ps/nm
Operating Power				500	mW
Operating Temperature		0 to ~+70			°C
Storage Temperature		-40 to ~+85			°C
Fiber Type		Corning SMF-28			
Color Code		Port1:black;Port2&3:clear			
Package Dimensions	250Um Bare Fiber	P1 ∅ 5.5x50 / ∅ 5.5x38			mm
	900Um loose tube	P2 ∅ 5.5x55.0			mm

\* Note:

- 1) The maximum IL is under all states of polarization and within the full operating temperature And wavelength ranges specified
- 2) All the parameters are excluding connectors

Mechanical Drawing/Package Dimensions (dimension in mm)



Ordering Information: CIR-①①-②-③-④-⑤-⑥

①①Wavelength	②Fiber type	③Fiber length	④Package dimension	⑤Connector
13=1310nm	1=250um bare fiber	1=1m	A=Package dimension A	0=None
CB=1550nm	2=900um loose tube	S=custom spec		1=FC/APC
LB=1590nm	S= custom spec			2=FC/PC
CL=1570nm			S=custom spec	3=SC/APC
				4=SC/PC
				5=ST
⑥ Port Configuration				6=LC
4=4 Ports				S=custom spec

\*The tolerance of fiber length is +/-0.1m. 1 meter is standard. The lead-time for special Fiber length will be longer