



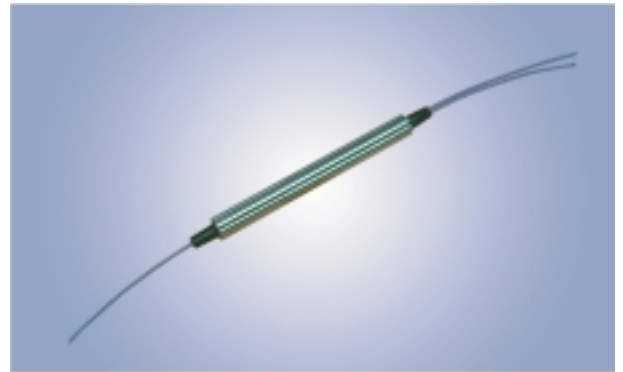
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Corporation Ltd

# Polarization Independent Optical Circulators

Fiber Optic Circulator is a non-reciprocal device that redirects light from port to port in one direction. The device is designed for use in WDM systems, optical amplifiers and sensor applications. The component features high power, high isolation, high return loss, and excellent environmental stability.

## Types

- 3 & 4 Ports
- High Power (300/1000mW)
- 1310nm/1550nm Window



## Applications

- WDM Systems
- Dispersion Compensation
- Sensor Applications
- Optical Amplifiers
- OTDR Applications

## Features

- Excellent Stability and Reliability
- High Isolation
- High Return Loss
- Low Insertion Loss
- Low Polarization Dependent Loss
- Low Polarization Mode Dispersion



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## SPECIFICATIONS

### Polarization Independent Optical Circulators (1310nm, 1550nm)

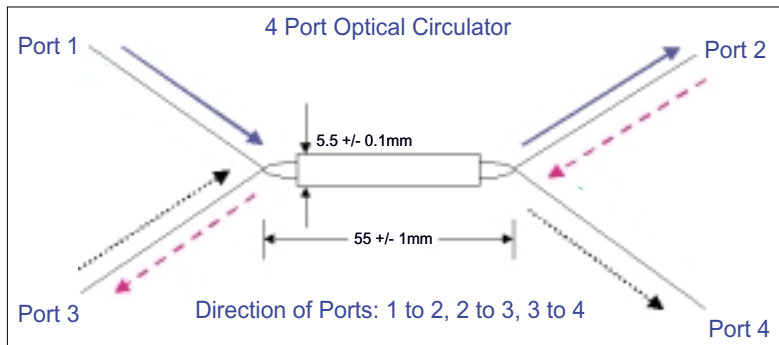
Parameter	3 ports	4 ports	Units
Wavelength Range	1310, 1550	1310, 1550	nm
Transmitting Direction	1->2, 2->3	1->2, 2->3, 3->4	--
Insertion Loss	< 0.8	< 0.8	dB
Channel Isolation	> 50	> 45	dB
PDL	< 0.1	< 0.15	dB
PMD	< 0.05	< 0.05	ps
TDL	0.15	0.15	dB
WDL	0.15	0.15	dB
Return Loss	> 50	> 50	dB
Cross Talk	> 50 (up to 60)	> 50 (up to 60)	dB
Handling Power	300, 1000	300, 1000	mW
Operating Temperature	0 to +70	0 to +70	°C
Storage Temperature	-40 to +85	-40 to +85	°C

\*Above specifications are for device without connectors.

### Polarization Independent Optical Circulators (C+L Band)

Parameter	3 ports	4 ports	Units
Wavelength Range	1525 - 1610	1525 - 1610	nm
Transmitting Direction	1->2, 2->3	1->2, 2->3, 3->4	--
Insertion Loss	< 0.9	< 1.2	dB
Channel Isolation	> 40	> 30	dB
PDL	< 0.15	< 0.2	dB
PMD	< 0.05	< 0.05	ps
TDL	0.2	0.2	dB
WDL	0.4	0.4	dB
Return Loss	> 50	> 50	dB
Cross Talk	> 50	> 50	dB
Handling Power	500	500	mW
Operating Temperature	0 to +70	0 to +70	°C
Storage Temperature	-40 to +85	-40 to +85	°C

\*Above specifications are for device without connectors.



## ORDERING CODES

OLCIR - I - [ ] - [ ] - [ ] - [ ] - [ ]

Port	Code
3 ports	3
4 ports	4

Handling Power	Code
300mW	300
1000mW	1000

Wavelength	Code
1310 nm	131
1550 nm	155
1525 - 1610nm	CL

Cable Diameter	Code
250 um	25
900 um	90

Connector Type	Code
No Connector	NC
FC/PC	FP
SC/PC	SP
FC/APC	FA
SC/APC	SA
LC/PC	LP
MU/PC	MP
Others	XX

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