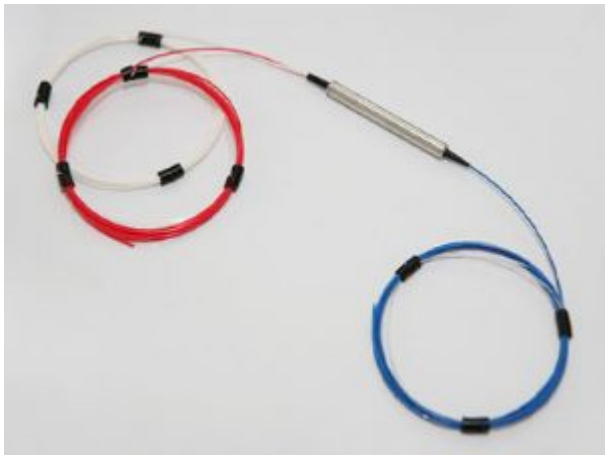
Polarization Insensitive Optical Circulator

Features

- High isolation & High Reture Loss
- Low insertion loss & PDL
- Optical Path Epoxy Free
- High Stability and reliability
- Epoxy-free on Optical Path



Applications

- LEDFA,DWDM and OTDR
- DWDM and OADM networks
- Bi-directional transmission system

Description

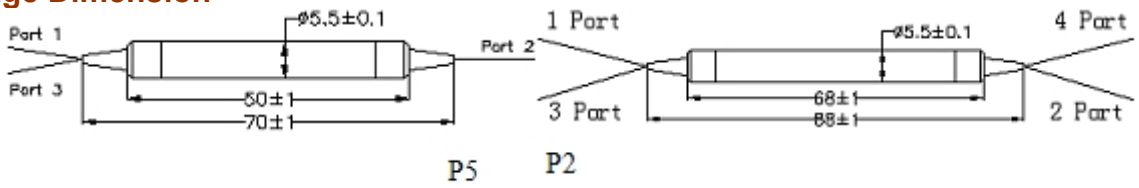
Gezhi Photonics' polarization insensitive optical circulator utilizes proprietary designs and metal bonding micro optics packaging. It provides low insertion loss, broad band high isolation, low PDL, excellent temperature stability and optical path epoxy free. It can be used for wavelength add/drop, dispersion compensation and EDFA application.

Technical Parameter

Parameter		3 Port		4 Port	
Operating wavelength (nm)		1310, 1480,1550, 1585 (+/-30)	C+L (1520~1620)	1310, 1480,1550,1585, (+/-30)	C+L (1520~1620)
Isolation (λc,23℃ all sop) (dB)		≥40	≥40	≥40	≥40
Isolation (Over all λ, T, sop) (dB)		≥35	≥30	≥35	≥30
Insertion Loss (λc,23℃ all sop) (dB)	Grade P	≤0.8	≤1.1	≤0.8	≤1.2
	Grade A	≤1.0	≤1.2	≤1.0	≤1.3
PDL (dB)		≤0.15		≤0.20	
Return loss (dB)		≥50			
PMD (ps)		≤0.1			
Directivity		≥50			
Power handling (mW)		≤300			
Fiber Type		SMF-28e			
Operating temperature (℃)		0 ~ +70			
Storage temperature (℃)		-40 ~ +85			
Package Dimensions (mm)	For bare fiber or 900um loose tube	φ5.5×L50(P2)		φ5.5×L68(P5)	φ5.5×L64(P8)
	For 3mm cable	L98XW14.5XH8.5(P6)	L90XW20XH9.5(P9)	L80xW12xH10(P7)	

* Insertion loss is not include connector loss

Package Dimension



Ordering information

GC	wavelength	Type	Grade	0	Package type	Pigtail Type	Length	Connector
	1310=1310 1480=1480 1550=1550 1585=1585 1570=1520~1620	3=3Port 4=4Port	P=P Grade A= A Grade		2=P2(for 3 ports) 5=P5(for 4 ports) 6=P6(for 3mm cable) 7=P7 8＝P8 (for 4 ports) 9=P9(for 3mm cable)	1=250um bare fiber 2=900um loose tube 3=3mm loose tube 4=2mm loose tube	H=0.5m 8=0.8m 1=1.0m 5=1.5m 2=2.0m A=1.1m B=1.2m C=0.2m	0=None 1=FC/UPC 2=FC/APC 3=SC/APC 4=SC/UPC 5=MU 6=LC/PC 7=LC/APC 8=E2000 APC 9=E2000 PC A=ST/PC B=SC/UPC for port1&3, SC/APC for port2 C=LC/UPC for port1&3, SC/UPC for port2