



Compact Polarization-Insensitive Optical Circulator (3 port)

ACP's 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.

FEATURES

- Low Insertion Loss
- Wide Band, High Isolation
- Low PDL
- 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
Number of Ports	3
Grade	P A
Operating Wavelength	1310 to 1550nm
Bandwidth	± 30nm
Channel Isolation	≥ 48dB (Peak) ≥ 40dB (Min.*)
Configuration	P1 - P2 and P2- P3
Insertion Loss (Typ.)	0.60dB 0.80dB
Insertion Loss (Max)	≤ 0.80dB ≤ 1.0dB
Channel Crosstalk	≥ 50dB
Polarization Dependent Loss	≤ 0.15dB
Polarization Mode Dispersion	≤ 0.10ps
Return Loss	≥ 50dB
Optical Power	≤ 300mW
Operating Temperature	0 to +70°C
Storage Temperature	- 40 to +85°C
Package Dimensions	N1= Φ5.5xL35 (250μm bare fiber); Φ5.5xL40 (900μm jacket fiber) N2= Φ5.5xL36 (250μm bare fiber); Φ5.5xL40 (900μm jacket fiber)

Note:

* Measured at 23°C

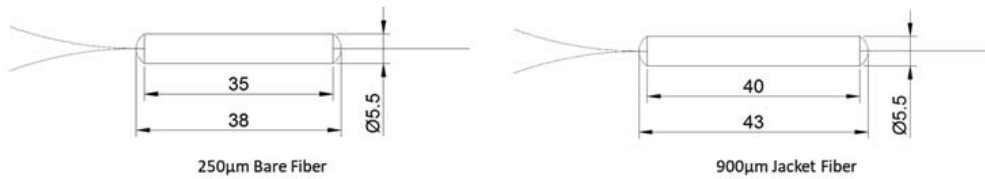
IL is 0.3 dB higher and RL is 5 dB lower for each connector added.

All values referenced are without connector.

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MECHANICAL DIMENSIONS

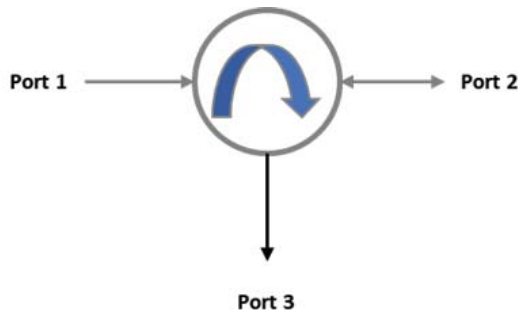
N1 Package



N2 Package



PORT CONFIGURATIONS



ORDERING INFORMATION

PIOC	Port	Grade	Operating Wavelength	Package	Fiber Type*	Pigtail Style	Fiber Length	In Connector	Out Connector
3=3 Port		P=P Grade	31=1310nm	N1=N1 package	2=SMF-28 Ultra (G.657.A1)	1=Bare fiber	05=0.5m	0=None	0=None
		A=A Grade	55=1550nm	N2=N2 package	3=ClearCurve ZBL(G.657.B3)	2=900um loose tube	10=1.0m	1=FC/APC	1=FC/APC
								2=FC/PC	2=FC/PC
								3=SC/APC	3=SC/APC
								4=SC/PC	4=SC/PC
								5=ST	5=ST
								20=2.0m	6=LC/UPC
							7=LC/APC	7=LC/APC	

*1=SMF-28(G.652) is available upon request.