

4Ports Optical Circulator

The four-port fiber-optic ring is a multi-port non-mutual-easy optical device, and light can only travel in one direction. If the signal is from port 1 input, it is output from port 2, and the signal from port 2 input, will be output from port 3, its output loss is very small, light from port 2 input, from port 1 output when the loss is very large, the same light from port 3 input, from port 3 output loss is also very large.

Features

- High Isolation.
- Low Insertion Loss
- Compact
- High stability and reliability

Application

- Fiber Lasers
- Fiber Sensing
- Fiber Amplifier
- The field of optical communication
- DWDM system



Performance Specifications

Parameters	Unit	Specifications	
		Grade P	Grade A
Directivity	-	Port 1 to Port 2 to Port 3 to Port 4	
Center Wavelength(λ_c)	nm	1310 or 1550	
Operating Wavelength Range	nm	$\lambda_c \pm 20$	
Typical Peak Isolation	dB	≥ 50	
Min Isolation @23°C, full wavelength	dB	≥ 38	
Typical Insertion Loss@23°C	dB	≤ 0.7	≤ 0.9
Insertion Loss	dB	≤ 0.9	≤ 1.1
Crosstalk	dB	≥ 50	
Return Loss	dB	≥ 50	
Polarization Mode Dispersion	ps	≤ 0.1	
Polarization Dependent Loss @23°C	dB	≤ 0.2	
Optical Average Power	mW	500 or Customize	
Tensile Load	N	≤ 5	
Operating Temperature	°C	-0~+70	
Storage Temperature	°C	-40~+85	
Fiber Type		SMF-28e or Customize	
Fiber Length	m	1.0 or Customize	
Connector		Customize	
Package size	mm	$\phi 5.5 \times L60$	

* The temperature measurement environment is at 23°C

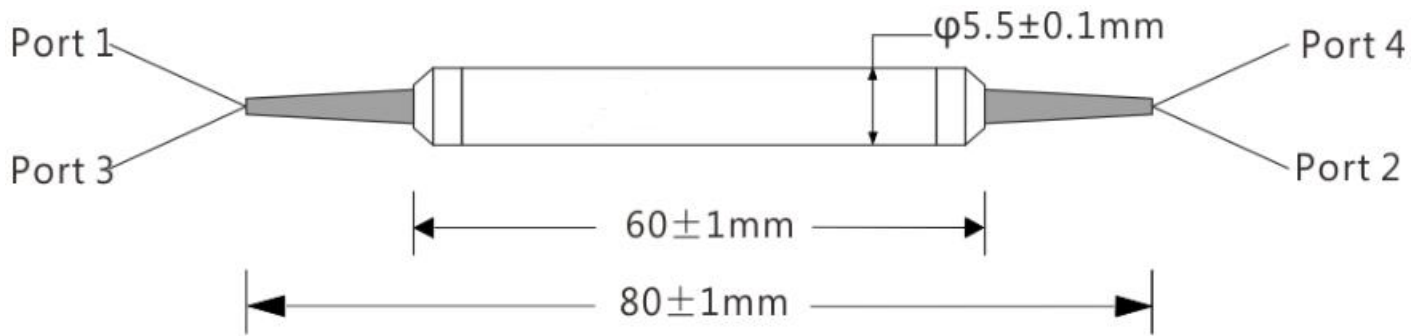
**If the connection head is increased, the insertion loss increases by 0.3dB and the return loss decreases by 5dB, which is reduced by 2dB for the protection product

Hirundo Optics Inc

Factory: 2nd Floor, Building 6, #16 Xinfa Road, Southern Cable Industrial Park, Rongli Ronggui Street, Shunde District, Foshan city, Guangdong 528305 China
Tel: 0757-26619220 Email: info@hirundo-link.com Website: <https://www.hirundo-link.com>

4Ports Optical Circulator

Mechanical Dimensions



Order information:

CIR (Circulator) PN: CIR-XXXXXXXXXX-XX (CIR+10 Code+2 Serial Number)

CIR	X	XXXX	X	X	X	X	X	XX						
	Port	Central Wavelength	Fiber Type	Fiber Jacket	Fiber Length	Connector	Grade							
3	3Port	0850	850	0	SMF	0	250um Bare Fiber	0	0.5m	0	none	P	P Grade	S N
4	4Port	0980	980	1	HI780	1	0.9mm Loose	1	1.0m	1	SC/UPC	A	A Grade	
		1060	1060	2	HI1060	S	Special	2	1.5m	2	SC/APC	S	Special	
		1310	1310	3	1310 PM			3	2.0m	3	FC/UPC			
		1550	1550	4	1550 PM			4	2.5m	4	FC/APC			
		1315	1310&1550	S	Special			5	3.0m	5	LC/UPC			
		1585	1585					6	3.5m	6	LC/APC			
		000S	Special					7	0.7m	7	ST/UPC			
								8	1.2m	8	E2000			
								9	2.7m	S	Special			
								S	Special					