

3Ports Optical Circulator



The three-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	Specifications		Unit
	Grade P	Grade A	
Directivity	Port 1 to Port 2 to Port 3		-
Center Wavelength(λ_c)	1310 or 1550		nm
Operating Wavelength Range	$\lambda_c \pm 30$		nm
Typical Peak Isolation	≥ 50		dB
Min Isolation @23°C, full wavelength	≥ 40		dB
Typical Insertion Loss@23°C	≤ 0.6	≤ 0.8	dB
Insertion Loss	≤ 0.8	≤ 1.0	dB
Crosstalk	≥ 50		dB
Return Loss	≥ 50		dB
Polarization Mode Dispersion	≤ 0.1		ps
Polarization Dependent Loss@23°C	≤ 0.1		dB
Optical Average Power	500 or Customize		mW
Tensile Load	≤ 5		N
Operating Temperature	$-0 \sim +70$		°C
Storage Temperature	$-40 \sim +85$		°C
Fiber Type	SMF-28e or Customize		
Fiber Length	1.0 or Customize		m
Connector	Customize		
Package size	$\phi 5.5 \times L50$		mm

* The temperature measurement environment is at 23°C

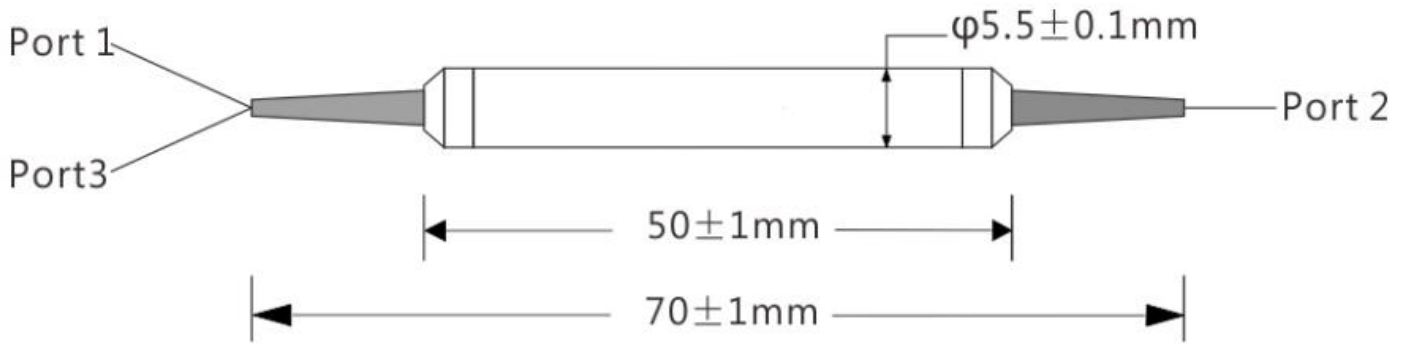
**If the connection head is increased, the insertion loss increases by 0.3dB and the return loss decreases by 5dB, which is reduced by 2dB for the protection product

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Mechanical Dimensions



Order information:

CIR (Circulator) PN: CIR-XXXXXXXX-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	
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	S
		1310	1310	3	1310 PM			3	2.0m	3	FC/UPC			N
		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					