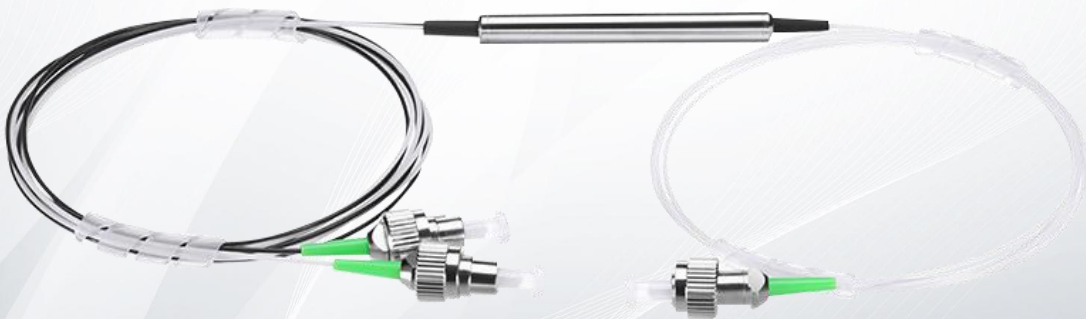


3 Ports Polarization Insensitive Optical Circulator

Data Center & Cloud Computing Infrastructure Solutions



Overview

The 3 Ports Optical Circulator allows light to travel in only one direction. As a device used in optical communication system, an optical circulator is built to pass light from one optical fiber to another.

The optical circulator is used to pass light from an unidirectional to a duplex fiber, it is widely used in advanced communication systems and fiber-optical sensor systems.

Features

- Compact size
- High Isolation & Return Loss
- Low Insertion Loss & PDL
- Optical Path Epoxy Free

Applications

- WDM system
- Fiber Sensor/Amplifier/Bragg Grating
- Chromatic Dispersion Compensation Devices

Technical Specification

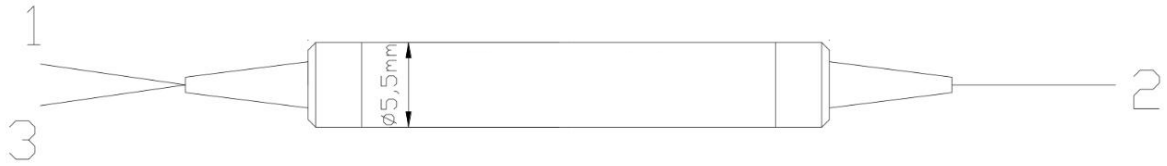
Parameters	Description	
Wavelength	1310nm; 1550nm	1460nm-1625nm; 1520nm-1620nm
Insertion Loss	≤ 0.8dB	≤ 1.1dB
Typ. Peak Isolation	55dB	55dB
Isolation @23°C	≥ 40dB	≥ 35dB
Return loss	≥ 50dB	
PDL	≤ 0.15dB	
PMD	≤ 0.1ps	
Directivity	≥ 50dB	
Power Handling	≤ 300mW	
Connector	None; LC/UPC; LC/APC; SC/UPC; SC/APC; FC/UPC; FC/APC	
Fiber Type	SMF-28e	
Cable Diameter	900μm; 2mm; 3mm	
Dimensions (900μm loose tube)	0.22"x1.97"/5.5x50mm (φ x L)	
Dimensions (2mm or 3mm loose tube)	0.37"x0.79"x3.54"/9.5x20x90mm (HxWxL)	
Operating Temperature	-5°C~ +70°C	
Storage Temperature	-40°C ~ +80°C	

Notes:

1. Above specifications are for devices without the connectors;
2. If the device is with connectors, an additional 0.3dB to the insertion loss will be added, and the return loss will be reduced by 5dB.

Product Structure

The optical circulator has three ports, and the movement occurs in the same direction as the light is traveling, from the first port to the second, or the second to the third port. All the incoming light beams can't go back to other ports, which means the device is non-reciprocal.



Ordering Information

ID	Description
#33364	Customized 3 Ports Polarization Insensitive Optical Circulator



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