

Polarization Insensitive 4-Port Fiber Optic Circulator (FCIR4 Series)

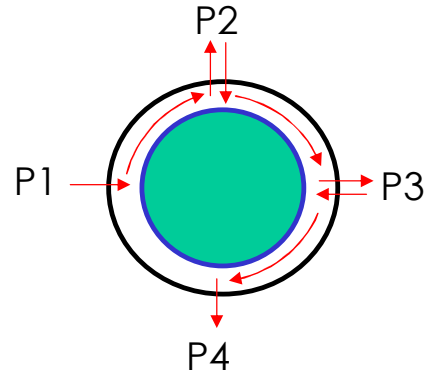
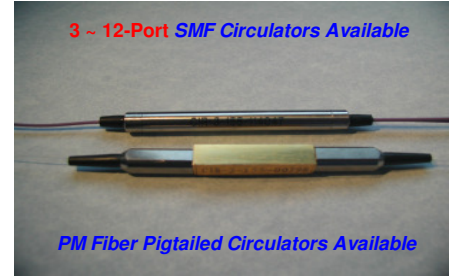


PHOTONIK's mini 4-port fiberoptic circulator module is a compact, high performance lightwave component that works to transmit the incoming signal from port 1 to port 2, and another incoming signal from port 2 to port 3 with very low insertion loss simultaneously. In the same principle, port 3 to port 4 go as well. The component provides high isolation, high return loss, low insertion loss, very low PDL, low PMD and excellent environmental stability. It is widely used in combination with fiber gratings or fiber sensor systems, and other reflective components in DWDM systems, high speed systems and bi-direction communication systems.

Specifications

Parameter	Unit	Values
Center Wavelength	nm	1310 or 1550
Operating Wavelength	nm	± 20nm
Typical Insertion loss	dB	0.45
Maximum Insertion loss	dB	0.55
Isolation	dB	≥50
Cross talk	dB	≥50
Return loss	dB	≥55
PDL	dB	≤0.10
PMD	ps	≤0.10
Max. Optical Power	mW	300
Max. Tensile Load	N	5
Fiber Type		Corning SMF-28
Operation Temperature	°C	-5 to +70
Storage Temperature	°C	-40 to +85
Package Dimensions	mm	≤ Dia 8.0 x 70mm

* For devices with connectors, insertion loss will be 0.3dB higher, RL will be 5dB lower.



Standard Design

Ordering Information

FCIR4-①①-②-③-④-⑤

①① : Wavelength

31 - 1310

55 - 1550

SS - Specify

② : Connector type

1 - FC/UPC

2 - ST/UPC

3 - LC/UPC

4 - FC/APC

5 - SC/APC

6 - SC/UPC

S - Specify

N - None

③ : Fibre Type

B - 250µm bare fiber

L - 900µm loose tube

T - 900µm tight buffer fiber

④ : Fibre Length

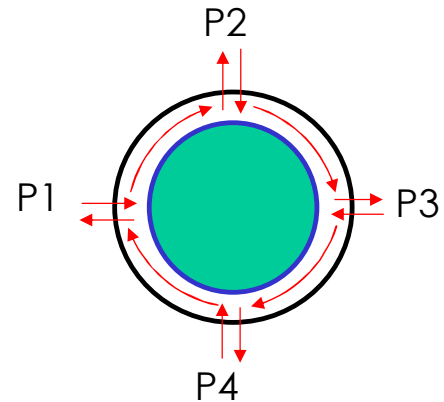
1 - 1.0 meter

S - Specify

⑤ : Config Type

Q - Standard design

R - Reciprocal design



Reciprocal Design

Note: Custom designs can be made per requirements from customers.

Contact Information:

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