Polarization Insensitive Mini Fiber Optic Circulator (FCIR Series)

Rev 11D

Description

The Mini Fiber Optic Circulator is a compact, high performance lightwave component that routes incoming signals from Port 1 to Port 2, and incoming Port 2 signals to Port 3. The optical circulator provides high isolation, low insertion loss, low PDL, low PMD and excellent environmental stability. It is widely used in combination with fiber gratings and other reflective components in DWDM systems, high speed systems and bi-direction communication systems.

Key Features

- High Isolation
- Low Insertion Loss
- Compact Size

Applications

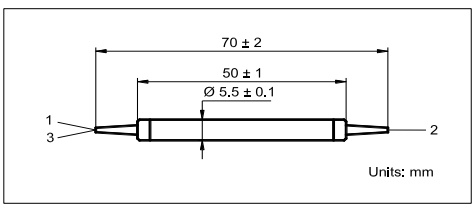
- Denser Channel Plans
- Access/Enterprise Networks
- Fiber Sensing

Specifications

Parameter	Unit	Value
Center Wavelength (λc)	nm	1310 or 1550
Operating Wavelength Range	nm	λc ± 20
Typ. Insertion Loss	dB	0.7
Max. Insertion Loss	dB	0.8
Min. Isolation, 23 ℃	dB	45
Min. Crosstalk	dB	50
Min. Return Loss	dB	55
Max. Polarization Dependent Loss	dB	0.1
Max. Polarization Mode Dispersion	ps	0.1
Max. Optical Power (Continuous Wave)	mW	300
Max. Tensile Load	N	5
Fiber Type	-	SMF-28 Fiber
Operating Temperature	℃	- 5 to + 70
Storage Temperature	℃	- 40 to + 85
Package Dimensions	mm	5.5 × 50

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

Package Dimensions



Ordering Information

FCIR-①①-②-③-④-⑤

①①: Wavelength	②: Connector Type		③: Fiber Jacket	④: Fiber Length	⑤: Package Length
31 - 1310 nm	1 - FC/UPC	4 - SC/APC	B - 250 μm Bare Fiber	1 - 1.0 m	1 - 50 mm
55 - 1550 nm	2 - FC/APC	N - None	L - 900 μm Loose Tube	S - Specify	S - Specify
SS - Specify	3 - SC/UPC	S - Specify	S - Specify		