



passive components

Fiber Optic Circulator

Description

Renka® SmartCONNECT™ polarization independent optical circulators are passive, non-reciprocal devices that are used to route light from port 1 to port 2, and from port 2 to port 3. Based on the faraday effect, these components offer low insertion loss and polarization dependent loss, while providing high isolation.

Renka circulators are designed and tested to Bellcore performance and reliability industry standards.



Applications

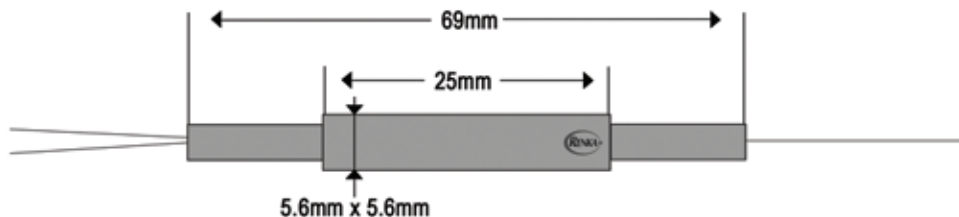
- WDM Networks
- Fiber Amplifier Systems
- Bi-directional Transmission Systems
- Test and Sensing Systems

Benefits

- High Isolation
- Low Crosstalk
- Low Insertion Loss
- High Stability

Package Dimensions

Light/Medium Duty



Fiber Optic Circulator Specifications

	UNIT	
Operating Wave/length	nm	1310 or 1550
Transmitting Direction Port		1 to 2, 2 to 3
Insertion Loss	dB	≤0.9
Return Loss	dB	≥50
Isolation	dB	≥45
Polarization Dependent Loss	dB	≤0.15
Polarization Mode Dispersion	ps	≤0.1
Directivity (1-3)	dB	≥50
Operating Temperature	°C	0 to +60
Storage Temperature	°C	-40 to +85

Ordering Information

CIR□□-□-□□

Wavelength

3: 1310
5: 1550

Package Type

L: Light Duty
M: Medium Duty
H: Heavy Duty

Lead Length

1: 1 meter
2: 2 meters
C: Custom

Connector Type

00: None
SU: SC/UPC
SA: SC/APC
FU: FC/UPC
FA: FC/APC
TU: ST/UPC