

RC Fiber Polarization Insensitive Isolator (RCI Series)

Description

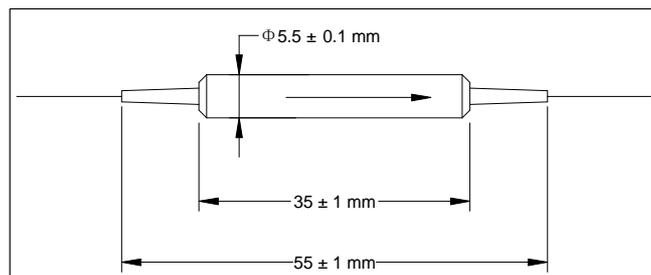
Rev 11

The RC Fiber Polarization Insensitive Isolator is designed and manufactured to Telcordial standard. The unique manufacturing process and optical path epoxy-free design enhance the device high power handling capability. The device is characterized with high performance, high reliability and low cost. It has been widely used in EDFAs, DWDM systems, Sensors, compact optical circuits and other fiberoptic communication equipments to suppress back reflection and back scattering.

Specifications

Parameter	Unit	Single Stage		Dual Stage	
		Grade P	Grade A	Grade P	Grade A
Center Wavelength (λ_c)	nm	1550			
Typ. Peak Isolation	dB	42	40	58	55
Min. Isolation, $\lambda_c \pm 10$ nm, 23 °C, all polarization states	dB	30	29	46	45
Typ. Insertion Loss, λ_c , 23 °C, all polarization states	dB	0.4	0.5	0.55	0.7
Max. Insertion Loss, $\lambda_c \pm 20$ nm, all temperature, all polarization states	dB	0.6	0.65	0.75	0.9
Min. Return Loss (Input/Output)	dB	55/55	55/55	55/55	55/55
Max. Polarization Dependent Loss, 23 °C	dB	0.05	0.1	0.05	0.1
Max. Polarization Mode Dispersion	ps	0.20	0.25	0.05	0.07
Max. Optical Power (Continuous Wave)	mW	300			
Max. Tensile Load	N	5			
Fiber Type	-	RC SMF-28 (MFD 10.5 μ m @ 1550 nm)			
Operating Temperature	°C	- 5 to + 70			
Storage Temperature	°C	- 40 to + 85			

Package Dimensions



Ordering Information

RCI-①-②②-③-④-⑤-⑥

①: Stage	②②: Wavelength	③: Grade
1 - Single Stage	55 - 1550 nm	P - Premium
2 - Dual Stage	SS - Specify	A - A Grade
④: Connector Type	⑤: Fiber Type	⑥: Fiber Length
N - None	B - 170 μ m Bare Fiber	1 - 1 m
	L - 900 μ m Loose Tube	S - Specify
	S - Specify	