



Mini RC Fiber Isolator (MRCI Series)

Rev 11B

Description

The Mini Polarization Insensitive Isolator series is characterized with very compact package, low insertion loss, high isolation, high return loss and excellent environmental stability and reliability. This optical isolator is specifically designed to help engineers cope with smaller module designs or more components that need to fit into a module/linecard for highly integrated system requirements.

Key Features

- Compact Package
- Low Insertion Loss
- High Isolation

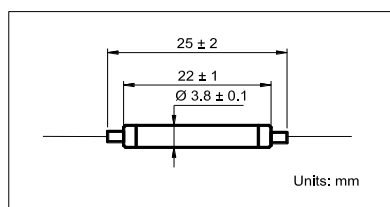
Applications

- Optical Equipment
- Fiber Optic Instruments

Specifications

Parameter	Unit	Value			
Stage	-	Single Stage		Dual Stage	
Grade	-	Grade P	Grade A	Grade P	Grade A
Center Wavelength (λ_c)	nm	1310, 1480 or 1550			
Typ. Peak Isolation	dB	42	40	55	52
Min. Isolation, $\lambda_c \pm 10$ nm, All Polarization States, 23 °C	dB	28	25	40	38
Typ. Insertion Loss, $\lambda_c \pm 10$ nm, All Polarization States, 23 °C	dB	0.5	0.6	0.6	0.7
Max. Insertion Loss, $\lambda_c \pm 20$ nm, Operating Temperature All Polarization States	dB	0.7	0.8	0.8	1.0
Min. Return Loss (Input/Output)	dB	50/50	50/50	50/50	50/50
Max. Polarization Dependent Loss, 23 °C	dB	0.10	0.15	0.10	0.15
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 (MFD 10.35 μ m) Fiber			
Operating Temperature	°C	- 5 to + 70			
Storage Temperature	°C	- 40 to + 85			

Package Dimensions



Ordering Information

MRCI-①-②②-③-④-⑤-⑥-⑦, RC SMF

①: Stage

②②: Wavelength

③: Grade

④: PMD

1 - Single Stage

55 - 1550 nm

P - Premium

2 - Refer to Above Spec

2 - Dual Stage

SS - Specify

A - A Grade

⑤: Connector Type

N - None

⑥: Fiber Jacket

B - 165 μ m Bare Fiber

L - 900 μ m Loose Tube

S - Specify

⑦: Fiber Length

1 - 1.0 m

S - Specify