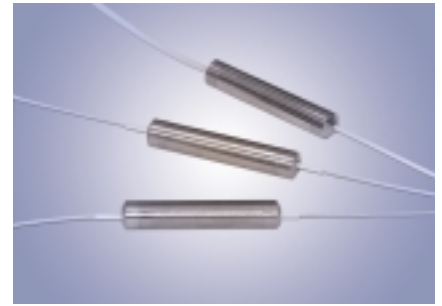




# Polarization Independent Isolators

(Wavelength: 1310nm, 1480nm or 1550nm)

Fiber Optic Isolator allows light to travel through a fiber in one direction only. It minimizes back reflection and back scattering in the reverse direction for any state of polarization. The device has an epoxy-free optical path and provides high isolation with low polarization dependent loss over the operating wavelength range.



## Applications

- DWDM Systems
- Fiber Optic Sensors
- EDFA
- CATV
- Laser Diode Package

## Features

- High Isolation
- Low PDL
- Environmentally Stable

## SPECIFICATIONS

High Power Polarization Independent Isolators (1310nm, 1480nm or 1550nm)

Parameter	Single stage	Dual stage	Units
Center Wavelength	1310, 1480 or 1550		nm
Typ. Peak Isolation	42	58	dB
Min. Isolation at 23°C; +/-15nm, all polarization states	32	46	dB
Typ. Insertion Loss at 23°C; +/-20nm, all polarization states	0.35	0.4	dB
Max. Insertion Loss, -5 to 70°C, +/-20nm, all polarization states	0.5	0.55	dB
Min. Return Loss (Input/Output)	60/55	60/55	dB
Max. PDL at 23°C	0.05	0.05	dB
Max. PMD	0.2	0.05	ps
Max. Optical Power (Continuous Wave)	1 or 3		W
Max. Tensile Load	5		N
Fiber Type	Corning SMF-28		--
Operation Temperature	-5 to +70		°C
Storage Temperature	-40 to +85		°C

\*Low PMD version is available. PMD <0.05ps.

\*Above specification are for device without connector.

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

## ORDERING CODES

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Type and Wavelength	Code
Single Stage	1310nm S131
	1480nm S148
	1550nm S155
Dual Stage	1310nm D131
	1480nm D148
	1550nm D155

Fiber Diameter	Code
250 μm	25
900 μm	90

Handling Power	Code
3W	3
others	XX

Connector Type	Code
No Connector	NC
FC/UPC	FU
SC/UPC	SU
FC/APC	FA
SC/APC	SA
LC/UPC	LU
ST/UPC	ST
Others	XX