

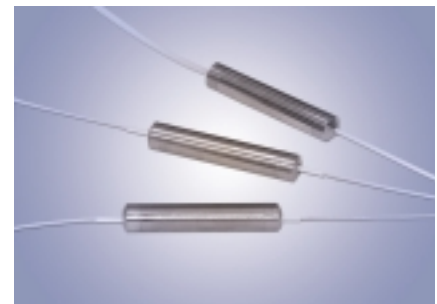


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# Polarization Independent Isolators

(Wavelength: 1080nm)

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 insertion loss over a wide wavelength range. It can be used in high power applications.



## Types

- Polarization Independent Isolators
  - Single Stage / Dual Stage
- 1080nm Central Wavelength

## Applications

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

## Features

- High Power (up to 3000 mW)
- High Isolation
- Low Insertion Loss
- Low Polarization Dependent Loss
- Wide Bandwidth
- Environmentally Stable



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## SPECIFICATIONS

### Polarization Independent Isolators (1080nm)

Parameter	Single Stage	Dual Stage	Units
Center Wavelength	1080		nm
Operating Wavelength Range	+/- 5		nm
Isolation	40(Typ), 30(Min)	55(Typ), 45(Min)	dB
Insertion Loss, all polarization states	1.5(Typ), 2.0(Max)	2.4(Typ), 3.4(Max)	dB
Min. Return Loss (Input/Output)	55/50		dB
Max. Polarization Dependent Loss (PDL)	0.15		dB
Max. Optical Power (CW)	300		mW
Max. Tensile Load	5		N
Fiber Type	HI 1060		--
Operating Temperature	-5 to +50		°C
Storage Temperature	-40 to +85		°C
Dimensions	Ø5.5 x 55		mm

\*Above specifications are for device without connectors.

### High Power Polarization Independent Isolators (1080nm)

Parameter	Single Stage		Units
Center Wavelength	1080		nm
Isolation	35(Typ), 32(Min)	25(Typ), 22(Min)	dB
Insertion Loss, all polarization states	1.2(Typ), 1.4(Max)	0.8(Typ), 1.2(Max)	dB
Min. Return Loss (Input/Output)	50/50		dB
Max. Polarization Dependent Loss (PDL)	0.15		dB
Max. Optical Power (CW)	500	3000	mW
Max. Tensile Load	5		N
Fiber Type	HI 1060		--
Operating Temperature	0 to +50		°C
Storage Temperature	-20 to +75		°C
Dimensions	Ø7.0 x 60	Ø28 x 110 x 45	mm

\*Above specifications are for device without connectors.

## ORDERING CODES

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Type and Wavelength	Code
1080 nm	
Single Stage	S108
Dual Stage	D108

Handling Power	Code
300mW	300
500mW	500
3000mW	3000

Fiber Diameter	Code
250 µm	25
900 µm	90
3 mm	3

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

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