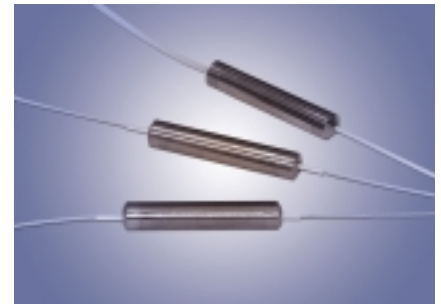




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Broadband Optical Isolators

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

- Broadband Isolators (1460 ~ 1620nm)
- Broadband Isolators (1280 ~ 1440nm)

Applications

- DWDM systems
- Fiber optic sensors
- EDFAs
- CATV
- Laser diode package

Features

- High power (up to 1000 mW)
- High isolation
- Low insertion loss
- Low polarization dependent loss
- Low polarization mode dispersion
- Wide bandwidth
- Environmentally stable



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SPECIFICATIONS

Broadband Polarization Independent Isolators (1460~1620nm)

Parameter		Single Stage	Dual Stage	Units
Wavelength Range		1460 to 1620		nm
Insertion Loss		0.5 (Typ), 0.7 (Max)	0.6 (Typ), 0.8 (Max)	dB
Isolation		42 (Typ), 20 (Min)	50 (Typ), 35 (Min)	dB
Polarization Dependent Loss (PDL)	Max	0.07		dB
Polarization Mode Dispersion (PMD)	Max	0.2	0.05	ps
Return Loss (Input/Output)	Min	60/55		dB
Optical Power		300 (1W is also available)		mW
Tensile Load		5		N
Operating Temperature		-5 to +70		°C
Storage Temperature		-40 to +85		°C
Dimension		Ø 5.5 x 55		mm

*Above specifications are for device without connectors.

Broadband Polarization Independent Isolators (1280~1440nm)

Parameter		Dual Stage	Units
Wavelength Range		1280 to 1440	nm
Insertion Loss		0.8 (Typ), 1.0 (Max)	dB
Isolation		50 (Typ), 30 (Min)	dB
Polarization Dependent Loss (PDL)	Max	0.15	dB
Polarization Mode Dispersion (PMD)	Max	0.4	ps
Return Loss (Input/Output)	Min	60/55	dB
Optical Power		300	mW
Tensile Load		5	N
Operating Temperature		-5 to +70	°C
Storage Temperature		-40 to +85	°C
Dimension		Ø 5.5 x 55	mm

*Above specifications are for device without connectors.

ORDERING CODES

OLISO - [] - [] - [] - [] Isolators

Type and Wavelength	Code	Handling Power	Code	Fiber Diameter	Code	Connector Type	Code
1460~1620	Single Stage	300mW	300	250 µm	25	No Connector	NC
	Dual Stage	1000mW	1000	900 µm	90	FC/PC	FP
1280~1440	Dual Stage					SC/PC	SP
						FC/APC	FA
						SC/APC	SA
						LC/PC	LP
						MU/PC	MP
						Others	XX

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