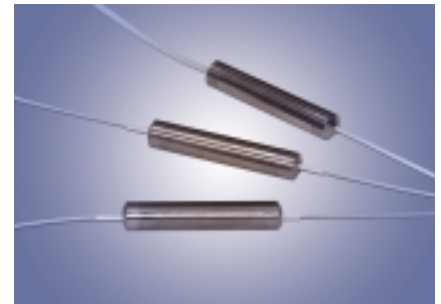




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Broadband & GFF Optical Isolators

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)
- Gain Flattening Filter (GFF) Isolators

Applications

- DWDM Systems
- Fiber Optic Sensors
- EDFA
- 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

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.

Gain Flattening Filter (GFF) Isolators

Parameter		Single Stage	Units
Wavelength Range		S: 1460~1530, C: 1530~1570, L:1570~1620	nm
Insertion Loss		GFF target profile dependent	
Isolation	Min	30	dB
Polarization Dependent Loss (PDL)	Max	0.1	dB
Polarization Mode Dispersion (PMD)	Max	0.2	ps
Return Loss	Min	55	dB
Error Function		+/- 0.5	dB
Optical Power		300 (1W is also available)	
Operating Temperature		-10 to +65	
Storage Temperature		-30 to +85	
Dimension		Ø 5.5 x 33.5	

*Above specifications are for device without connectors.

ORDERING CODES

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

Type and Wavelength	Code	Handling Power	Code	Fiber Diameter	Code	Connector Type	Code
Broadband	Single Stage	300mW	300	250 µm	25	No Connector	NC
	Dual Stage					BD15	FC/PC
GFF	S-Band	1000mW	1000	900 µm	90	SC/PC	SP
	C-Band					FC/APC	FA
	L-Band					SC/APC	SA
						LC/PC	LP
						MU/PC	MP
						Others	XX

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