



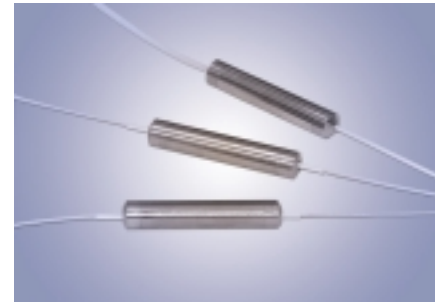
Opto-Link
Corporation Ltd

Polarization Independent 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

- Polarization Independent Isolators
 - Single Stage / Dual Stage



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
- Low Polarization Mode Dispersion
- Wide Bandwidth
- Environmentally Stable



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SPECIFICATIONS

Polarization Independent Isolators (1310nm & 1550nm)

Parameter		Single Stage	Dual Stage	Units
Wavelength		1310, 1480, 1550		nm
Insertion Loss	Typ	0.35	0.4	dB
	Max	0.5	0.55	dB
Isolation	Max	42	58	dB
	Min (23°C) CWL: ±15nm	32	46	dB
Polarization Dependent Loss (PDL)	Max	0.05	0.05	dB
Polarization Mode Dispersion (PMD)	Max	0.20	0.05	ps
Min. Return Loss (Input/Output)		60/55	60/55	dB
Optical Power	Max	300 (1W is also available)		mW
Tensile Load	Max	5		N
Operating Temperature		-5 to +70		°C
Storage Temperature		-40 to +85		°C

*Above specifications are for device without connectors.

Polarization Independent Isolators (1064nm & 1080nm)

Parameter	Single Stage	Dual Stage	High Power	Units
Center Wavelength	1064, 1080		1064	nm
Typ. Peak Isolation	40	55	30	dB
Min. Isolation at 23°C; C.W. +/- 10nm, all polarization states	30	45	25	dB
Insertion Loss at C.W.; all polarization states	1.5(Typ), 2.0(Max)	2.4(Typ), 3.4(Max)	0.8(Typ), 1.2(Max)	dB
Min. Return Loss (Input/Output)	55/50	55/50	50/50	dB
Max. PDL	0.15 (at 23°C)	0.15 (at 23°C)	0.1	dB
Max. Optical Power	300		3000	mW
Max. Tensile Load	5			N
Fiber Type	HI 1060 Fiber			
Operating Temperature	-5 to +50		0 to +60	°C
Storage Temperature	-40 to +85		-20 to +75	°C

*Above specifications are for device without connectors.

ORDERING CODES

OLISO - I - [] - [] - [] - []

Type and Wavelength	Code
Single Stage	1064 nm S106
	1310 nm S131
	1480 nm S148
	1550 nm S155
	1064 nm D106
Dual Stage	1310 nm D131
	1480 nm D148
	1550 nm D155

Handling Power	Code
300mW	300
1000mW	1000
3000mW	3000

Fiber Diameter	Code
250 µm	25
900 µm	90

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

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