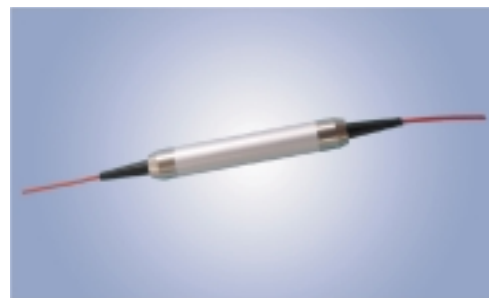




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## Polarization Maintaining Isolators

The Polarization Maintaining (PM) Optical 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 return loss, high extinction ratio, high isolation with low insertion loss over a wide wavelength range and excellent environmental stability and reliability.



### Types

- Polarization Maintaining Isolators
  - Single Stage / Dual Stage
- 1064/1310/1480/1550nm 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
- High Extinction Ratio
- High Return Loss
- Wide Bandwidth
- Environmentally Stable



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## SPECIFICATIONS

### Polarization Maintaining Isolators (1310nm & 1480nm & 1550nm)

Parameter	Single Stage	Dual Stage	Units
Center Wavelength	1310 , 1480, 1550		nm
Min. Extinction Ratio	20	20	dB
Isolation	42(Typ), 32(Min)	58(Typ), 46(Min)	dB
Insertion Loss at 23°C; C.W. +/-15nm, all polarization states	0.4(Typ), 0.55(Max), 0.6(Max for 1W)	0.5(Typ), 0.65(Max)	dB
Min. Return Loss (Input/Output)	55/50	55/50	dB
Max. Optical Power	300 (1000mW is also available)		mW
Max. Tensile Load	5		N
Fiber Type	PM Panda Fiber or Specify		
Operating Temperature	-5 to +70		°C
Storage Temperature	-40 to +85		°C

\*Above specifications are for device without connectors.

### Polarization Maintaining Isolators (1064nm)

Parameter	Single Stage	Dual Stage	High Power	Units
Center Wavelength	1064			nm
Typ. Peak Isolation	38	55	30	dB
Min. Isolation at 23°C; C.W., all polarization states	35	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
Min. Extinction Ratio	20	20	20	dB
Max. Optical Power	300		3000	mW
Max. Tensile Load	5			N
Fiber Type	PM 980 Panda Fiber or Specify			
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 - P - [ ] - [ ] - [ ] - [ ] Isolators

Type and Wavelength	Code	Handling Power	Code	Fiber Diameter	Code	Connector Type	Code	
Single Stage	1064 nm	S106	300mW	300	250 μm	25	No Connector	NC
	1310 nm	S131	1000mW	1000	900 μm	90	FC/UPC	FU
	1480 nm	S148	3000mW	3000	3 mm	3	SC/UPC	SU
	1550 nm	S155					FC/APC	FA
Dual Stage	1064 nm	D106					SC/APC	SA
	1310 nm	D131					Others	XX
	1480 nm	D148						
	1550 nm	D155						

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