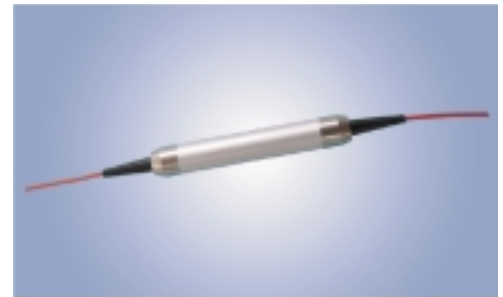




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Polarization Maintaining Isolators

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
- 1587nm Central Wavelength

Applications

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

Features

- High Power
- High Isolation
- Low Insertion Loss
- High Extinction Ratio
- High Return Loss
- Wide Bandwidth
- Environmentally Stable



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SPECIFICATIONS

Polarization Maintaining Isolators (1587nm)

Parameter	Single Stage	Dual Stage	Units
Center Wavelength	1587+/-30		nm
Min. Extinction Ratio	20	20	dB
Typ. Peak Isolation	42	58	dB
Min. Isolation at 23°C; C.W.+/-30nm, all polarization states	20	42	dB
Insertion Loss; C.W.+/-30nm, all polarization states	0.5(Typ), 0.6(Max)	0.6(Typ), 0.7(Max)	dB
Min. Return Loss (Input/Output)	55/50	55/50	dB
Max. Optical Power	300		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.

*PM fiber and connector key aligned to slow axis.

ORDERING CODES

OLISO - P - [] - [] - [] - []

Type and Wavelength	Code	Handling Power	Code	Fiber Diameter	Code	Connector Type	Code
Single Stage	1587nm	S158	300mW	250 μm	25	No Connector	NC
Dual Stage		D158		900 μm	90	FC/UPC	FU
						SC/UPC	SU
						FC/APC	FA
						SC/APC	SA
						Others	XX

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