



Polarization Maintaining Isolators

(with Built-In Polarizer)

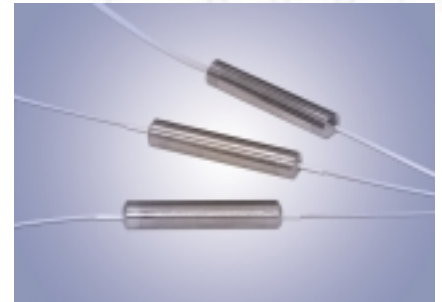
The Polarization Maintaining (PM) Optical Isolator allows light to travel through a fiber in one direction only. It minimizes back reflection and back scattering in the reverse direction for any state of polarization. The device has an epoxy-free optical path and provides high return loss, high extinction ratio, high isolation with low insertion loss over a wide wavelength range and excellent environmental stability and reliability.

Applications

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

Features

- High Isolation
- Low Insertion Loss
- High Extinction Ratio
- High Return Loss
- Environmentally Stable



SPECIFICATIONS

Polarization Maintaining Isolators (with Built-In Polarizer)

Parameter	Single Stage	Dual Stage	Units
Center Wavelength	1310, 1480 or 1550		nm
Min. Isolation	32	46	dB
Typ. Peak Isolation	42	58	dB
Insertion Loss	Typ. 0.45, Max. 0.6	Typ. 0.6, Max. 0.75	dB
Min. Return Loss (Input/Output)	55/50		dB
Min. Extinction Ratio	25		dB
Max. Optical Power	300		mW
Max. Tensile Load	5		N
Fiber Type	PM Panda Fiber		
Operating Temperature	-5 to +70		°C
Storage Temperature	-40 to +85		°C

*Above specifications are for device without connectors.

#The fast axis is blocked; the PM fiber and connector key are aligned to the slow axis.

ORDERING CODES

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

Type and Wavelength	Code	Handling Power	Code	Fiber Diameter	Code	Connector Type	Code
Single Stage	1310 nm	300mW	300	250 μm	25	No Connector	NC
	1480 nm					FC/UPC	FU
	1550 nm					SC/UPC	SU
Dual Stage	1310 nm	300mW	300	250 μm	25	FC/APC	FA
	1480 nm					SC/APC	SA
	1550 nm					Others	XX