



Opto-Link
Corporation Ltd

Polarization Maintaining Isolators

(Wavelength: 1080nm)

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
- 1080nm 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



Opto-Link
Corporation Ltd

SPECIFICATIONS

Polarization Maintaining Isolators (1080nm)

| Parameter | Single Stage | Dual Stage | Units |
|---|-------------------------------|--------------------|-------|
| Center Wavelength | 1080 | | nm |
| Min. Extinction Ratio | 20 | 20 | dB |
| Isolation | 35(Typ), 32(Min) | 52(Typ), 42(Min) | dB |
| Insertion Loss, all polarization states | 1.5(Typ), 2.0(Max) | 2.4(Typ), 3.4(Max) | dB |
| Min. Return Loss (Input/Output) | 50/50 | | dB |
| Max. Optical Power (CW) | 300 | | mW |
| Max. Tensile Load | 5 | | N |
| Fiber Type | PM 980 Panda Fiber or Specify | | -- |
| Operating Temperature | 0 to +50 | | °C |
| Storage Temperature | -40 to +85 | | °C |
| Dimensions | Ø5.5 x 55 | | mm |

*Above specifications are for device without connectors.

High Power Polarization Maintaining Isolators (1080nm)

| Parameter | Single Stage | | Units |
|---|-------------------------------|--------------------|-------|
| Center Wavelength | 1080 | | nm |
| Min. Extinction Ratio | 20 | 18 | dB |
| Isolation | 35(Typ), 32(Min) | 25(Typ), 22(Min) | dB |
| Insertion Loss, all polarization states | 1.2(Typ), 1.4(Max) | 0.8(Typ), 1.2(Max) | dB |
| Min. Return Loss (Input/Output) | 50/50 | | dB |
| Max. Optical Power (CW) | 500 | 3000 | mW |
| Max. Tensile Load | 5 | | N |
| Fiber Type | PM 980 Panda Fiber or Specify | | -- |
| Operating Temperature | 0 to +50 | | °C |
| Storage Temperature | -20 to +75 | | °C |
| Dimensions | Ø7.0 x 60 | Ø28 x 110 x 45 | mm |

*Above specifications are for device without connectors.

ORDERING CODES

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

| Type and Wavelength | Code |
|---------------------|-------------------|
| 1080 nm | Single Stage S108 |
| | Dual Stage D108 |

| Handling Power | Code |
|----------------|------|
| 300mW | 300 |
| 500mW | 500 |
| 3000mW | 3000 |

| Fiber Diameter | Code |
|----------------|------|
| 250 µm | 25 |
| 900 µm | 90 |
| 3 mm | 3 |

| Connector Type | Code |
|----------------|------|
| No Connector | NC |
| FC/UPC | FU |
| SC/UPC | SU |
| FC/APC | FA |
| SC/APC | SA |
| Others | XX |

■ Opto-Link Corporation Ltd. reserves the right to make changes to the products described herein without notice.

COPYRIGHT © 2002-2007 Opto-Link Corporation Ltd.

Tel: +852 2480-6106 Fax: +852 2480-1621 Email: contact@optolinkcorp.com Website: www.optolinkcorp.com