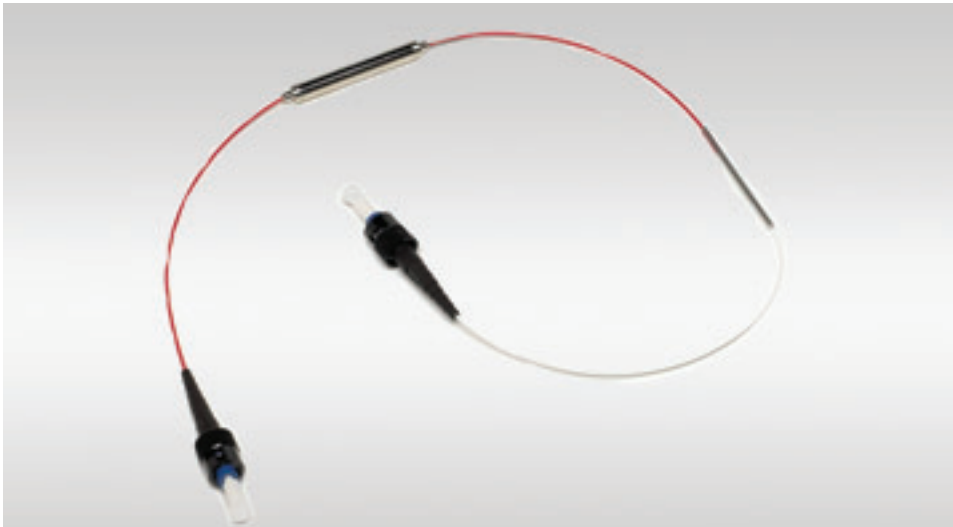


MPS-2050

## Dual Stage Optical Isolator



**Prevents back reflections along a transmission path in optical networks and components by allowing light to pass in only one direction**

The MPS-2050 Dual Stage Optical Isolator is a singlemode, polarization-independent isolator that can be connected or spliced into an optical transmission system. Offered in a Premium or Value grade, the MPS-2050 Dual Stage Optical Isolators are used to prevent back reflections along a transmission path in optical networks and components by allowing light to pass in only one direction. Connectors and other optical components present in an optical network can cause diverse back reflections. The back reflections are generated from discontinuities between the optical interface of the connectors and components. Back reflections are known to have a destabilizing effect on the laser source oscillation and the operation of the optical fiber amplifiers, thus resulting in degraded system performance. Optical isolators are indispensable devices for eliminating the adverse effects of back reflections in highspeed and analog optical networks and systems. The MPS-2050 Dual Stage Optical Isolator can be supplied with or without connectors and with bare fiber, 900 $\mu$ m buffered, 2mm or 3mm jacketed fiber.

**Information:** Call us toll-free at 888-868-8967 or email [info@b2bphotonics.com](mailto:info@b2bphotonics.com)

### Applications

- Fiber Optic Amplifiers
- Optical Sensors
- High Speed Data Networks
- CATV Systems
- Telecommunications
- RF Optical Links

### Features

- High Isolation
- Serialized & Individual Test Records
- Low Insertion Loss
- Low Polarization Sensitivity
- Environmental Stability and Reliability
- Epoxy Free Optical Path

MPS-2050

## Dual Stage Optical Isolator

### Specifications

Parameter	Premium	Value
Operating Wavelength:	1310 nm, 1550 nm	1310 nm, 1550 nm
Bandwidth:	± 20 nm	± 20 nm
Isolation in Band (at 23° C):	> 46 dB	> 43 dB
Isolation in Band (0° C - 70° C):	> 34 dB	> 32 dB
Max Insertion Loss in Band (0° C - 70° C):	0.8 dB	0.9 dB
Return Loss (Input/Output):	> 65/60 dB	> 60/55 dB
PDL:	< 0.10 dB	< 0.15 dB
PMD:	< 0.10 ps	< 0.10 ps
Maximum Power Handling:	300 mW	300 mW
Operating Temperature:	0° C to +70° C	0° C to +70° C
Storage Temperature:	-40° C to +85° C	-40° C to +85° C
Package Dimension:	5.45 mm (0) x 35 mm (L)	5.45 mm (0) x 35 mm (L)

### Part Number Generator

