

Microwave Photonic Systems, Inc. 888-868-8967

MPS-2000 Single Stage Optical Isolator

- High Isolation
- Low Insertion Loss
- Low PDL
- Environmentally Stable
- Epoxy Free Optical Path



Description:

The MPS-2000 Single 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-2000 Single 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 high-speed and analog optical networks and systems. The MPS-2000 Single Stage Optical Isolator can be supplied with or without connectors and with bare fiber, 900 μ m buffered, 2mm or 3mm jacketed fiber.

Specifications:

Parameter	Premium	Value
Operating Wavelength	1310 nm, 1550 nm	1310 nm, 1550 nm
Bandwidth	\pm 15 nm	\pm 15 nm
Isolation in Band (at 23°C)	> 32 dB	> 30 dB
Isolation in Band (0°C - 70°C)	> 22 dB	> 21 dB
Max Insertion Loss in Band (0°C - 70°C)	0.6 dB	0.7 dB
Return Loss (Input/Output)	> 65/60 dB	> 60/55 dB
PDL	< 0.05 dB	< 0.1 dB
PMD	< 0.25 ps	< 0.25 ps
Maximum Power Handling	300 mW	300 mW
Operating Temperature	0°C - +70°C	0°C - +70°C
Storage Temperature	-40°C - +85°C	-40°C - +85°C
Package Dimension	5.45 mm (Φ) x 35 mm (L)	5.45 mm (Φ) x 35 mm (L)

Applications:

Fiber Optic Amplifiers

Optical Sensors

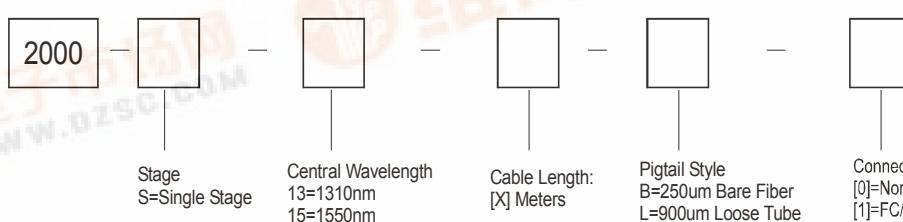
High Speed Data Networks

CATV Systems

Telecommunications

RF Optical Links

Part Number Generator:



SS OPTICAL ISOLATER

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