

1310/1550 Single Mode Single Stage Optical Isolator

Product Description

The OISM Series 1310/1550 single stage optical Isolator is a passive device that guides light at 1310/1550 nm in the normal direction while minimizing back reflection and back scattering in the reverse direction for any state of polarization. Employing Agiltron's proven advanced micro optics design, it features low insertion loss, extremely high isolation, compact structure, and high stability. These Telcordia qualified components have excellent characteristics, making them an ideal choice for application in fiber amplifier systems, pump laser diodes and optical fiber sensors.



Features

- Low Insertion Loss
- High Isolation
- Low PDL
- High Reliability
- Low Cost

Performance Specifications

| OISM Single Stage | | Specification | Unit |
|--|--------|---|------|
| Operation Wavelength (λ_o) | 1310 | 1310 \pm 15 | nm |
| | C Band | 1550 \pm 15 | |
| | L Band | 1585 \pm 15 | |
| Typical Insertion Loss (λ_c , 23°C, no connector) | | \leq 0.3 | dB |
| Maximum Insertion Loss (Over λ_o , 23°C, no connector) | | \leq 0.5 | dB |
| Minimum Isolation (Over λ_o , 23°C) | | \geq 30 | dB |
| Typical Peak Isolation (λ_c , 23°C) | | \geq 41 | dB |
| Polarization Dependant Loss | | \leq 0.1 | dB |
| Polarization Mode Dispersion * | | \leq 0.2 | ps |
| Return Loss (Minimum, Input/Output) | | \geq 60 | dB |
| Operating Temperature | | -5 ~ +70 | °C |
| Storage Temperature | | -40 ~ +85 | °C |
| Optical Power Handling | | \leq 400 | mW |
| Package Dimensions | | \varnothing 5.5 x L34 or \varnothing 3.0 x L30 | mm |
| * Special order for PMD \leq 0.05ps with compensator | | | |

Applications

- Optical Fiber Amplifier
- Pump Laser Source
- Fiber Optic Sensor
- Instrumentation

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Ordering Information

| OISM- | 10 | | | | | | | |
|-----------------|---|-------------------------|-------------------------------------|-----------------------|---|--|--|--|
| Type | Wavelength | Grade | Package | Fiber Type | | Fiber Length | Connector | |
| 10=Single stage | 3=1310 C=C Band L=L Band 0=Special | 1=Standard 0=Special | 1=∅5.5x34 2=∅3.0x30 0=Special | SMF-28=1 Special=0 | Bare Fiber=1 900µm Loose Tube=3 Special=0 | 1=0.25m 2=0.5m 3=1.0m 0=Special | 1=None 2=FC/PC 3=FC/APC 4=SC/PC 5=SC/APC 6=ST/PC 7=LC 0=Special | |