

1310/1550 Single Mode Dual Stage Optical Isolator

DATASHEET



The OISM Series 1310/1550 dual 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

Applications

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

Specifications

Parameter	Min	Typical	Max	Unit
Operation Wavelength (λ_o)	1310		1310 \pm 15	nm
	C Band		1550 \pm 15	nm
	L Band		1585 \pm 15	nm
Typical Insertion Loss (λ_c , 23°C, no connector)	0.4		0.45	dB
Maximum Insertion Loss (Over λ_o , 23°C, no connector)	0.5		0.6	dB
Minimum Isolation (Over λ_o , 23°C)	40		45	dB
Typical Peak Isolation (λ_c , 23°C)	50		55	dB
Polarization Dependent Loss			0.1	dB
Polarization Mode Dispersion			0.05	ps
Return Loss (Minimum, Input/Output)	55		60	dB
Operating Temperature	-5		70	°C
Storage Temperature	-40		+85	°C
Optical Power Handling			\leq 400	mW
Package Dimensions	Ø5.5 x L34, Ø3.0 x L30, Ø3.0 x L25			mm

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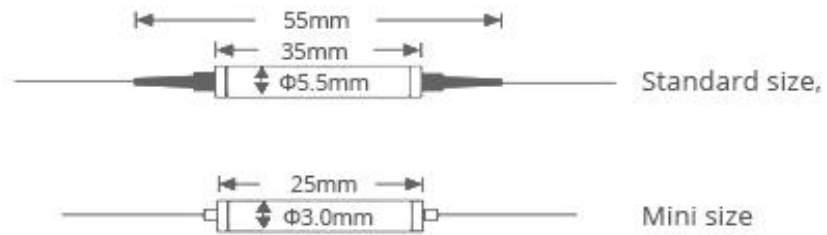
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Mechanical Dimension



*Product dimensions may change without notice. This is sometimes required for non-standard specifications.

Ordering Information

Prefix	Type	Wavelength	Grade	Package	Fiber Type	Fiber Cover	Fiber Length	Connector
OISM-	Dual stage =20	1310 = 3 C Band = C L Band = L Special = 0	Standard = 1 Special = 0	$\Phi 5.5 \times 35 = 1$ $\Phi 3.0 \times 30 = 2$ $\Phi 3.0 \times 25 = 3$ Special = 0	SMF-28=1 Special=0	Bare Fiber=1 900 μm Loose Tube=3 Special=0	0.25m = 1 0.5m = 2 1.0m = 3 Special = 0	None = 1 FC/PC = 2 FC/APC = 3 SC/PC = 4 SC/APC = 5 ST/PC = 6 LC = 7 Special = 0

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