

1310/1550 Single Mode Three Stage Optical Isolator

(patant pending)

Product Description

The OISM Series 1310/1550 three 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.



Performance Specifications

OISM Dual Stage	Specification	Unit
Operation Wavelength (λ_o)	1310	1310 \pm 15
	C Band	1550 \pm 15
	L Band	1585 \pm 15
Typical Insertion Loss (λ_c , 23°C, no connector)	\leq 0.6	dB
Maximum Insertion Loss (Over λ_o , 23°C, no connector)	\leq 0.8	dB
Minimum Isolation (Over λ_o , 23°C)	\geq 55	dB
Typical Peak Isolation (λ_c , 23°C)	\geq 70	dB
Polarization Dependant Loss	\leq 0.15	dB
Polarization Mode Dispersion	\leq 0.05	ps
Return Loss (Minimum, Input/Output)	\geq 55	dB
Operating Temperature	-5 ~ +70	°C
Storage Temperature	-40 ~ +85	°C
Optical Power Handling	\leq 400	mW
Package Dimensions	\varnothing 5.5 x L40	mm

Features

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

Applications

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

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Ordering Information

OISM-	30							
Type	Wavelength	Grade	Package	Fiber Type	Fiber Length	Connector		
30=Three stage	3=1310 C=C Band L=L Band 0=Special	1=Standard 0=Special	1=Ø5.5x40 0=Special	SMF-28=1 Special=0 Bare Fiber=1 900 m 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		

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