

1310/1550 Single Mode Dual Stage Optical Isolator

Product Description

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

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 0.45	dB
Maximum Insertion Loss (Over λ_o , 23°C, no connector)	\leq 0.6	dB
Minimum Isolation (Over λ_o , 23°C)	\geq 45	dB
Typical Peak Isolation (λ_c , 23°C)	\geq 55	dB
Polarization Dependant Loss	\leq 0.1	dB
Polarization Mode Dispersion	\leq 0.05	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

Applications

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

1310/1550 Single Mode Dual Stage Optical Isolator

Ordering Information

OISM-	20	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Type	Wavelength	Grade	Package	Fiber Type		Fiber Length	Connector	
20=Dual stage	3=1310 C=C Band L=L Band 0=Special	1=Standard 0=Special	1=Ø5.5x34 2=Ø3.0x30 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	