

# 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 ( $\lambda_o$ )	1310	1310 $\pm$ 15	nm
	C Band	1550 $\pm$ 15	
	L Band	1585 $\pm$ 15	
Typical Insertion Loss ( $\lambda_c$ , 23°C, no connector)		$\leq$ 0.3	dB
Maximum Insertion Loss (Over $\lambda_o$ , 23°C, no connector)		$\leq$ 0.5	dB
Minimum Isolation (Over $\lambda_o$ , 23°C)		$\geq$ 30	dB
Typical Peak Isolation ( $\lambda_c$ , 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	<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
	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	1=SMF-28 125/250 0=Special	1=Bare Fiber 2=Tight Buffer 3=900µm Loose Tube 4=3mm Cable	1=0.25m 2=0.5m 3=1.0m 4=1.5m 5=2.0m 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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