

1310/1550 Multimode Single Stage Optical Isolator

Product Description

The OIMM 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

OIMM Single Stage		Specification		Unit
Operation Wavelength (λ_o)	1310	1310 \pm 15		nm
	C+L Band	1535 ~ 1620		
Mode Category		1-3	4-5	
Typical Insertion Loss (λ_c , 23°C, no connector)*		\leq 0.5	\leq 0.4	dB
Maximum Insertion Loss (Over λ_o , 23°C, no connector)*		\leq 0.8	\leq 0.7	dB
Minimum Isolation (Over λ_o , 23°C)*		\geq 20	\geq 22	dB
Typical Peak Isolation (λ_c , 23°C)*		\geq 25	\geq 27	dB
Return Loss (Minimum, Input/Output)*		\geq 37	\geq 40	dB
Operating Temperature		-5 ~ +70		°C
Storage Temperature		-40 ~ +85		°C
Optical Power Handling		\leq 400		mW
Fiber type		62.5/125/250		
Package Dimensions		\varnothing 5.5 x L34		mm

Note(*):

Our device is designed and optimized for certain laser launch condition which is characterized as CPR value. In general, if application exceeds the specified CPR value, optical performance will become worsen.

Applications

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

15 Presidential Way , Woburn, MA 01801 Tel: (781) 935-1200 Fax: (781) 935-2040

www.agiltron.com

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Ordering Information

OIMM-	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=Cat1 2=Cat2 3=Cat3 4=Cat4 5=Cat5 0=Special	1=Ø5.5x30 0=Special	1=62.5/125/250 0=Special	1=Bare Fiber 3=900µm Loose Tube 0=Special	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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