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

Applications

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

Performance Specifications

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

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Revision: 060-11

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Ordering Information

OIMM-	10							
	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=∅5.5x30 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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