

**BUY NOW** 

# 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 ( $\lambda_o$ )	1310	1310 $\pm$ 15	nm
	C+L Band	1535 - 1620	
Mode Category		1-3   4-5	
Typical Insertion Loss ( $\lambda_c$ , 23°C, no connector)*		$\leq$ 0.5   $\leq$ 0.4	dB
Maximum Insertion Loss (Over $\lambda_o$ , 23°C, no connector)*		$\leq$ 0.8   $\leq$ 0.7	dB
Minimum Isolation (Over $\lambda_o$ , 23°C)*		$\geq$ 20   $\geq$ 22	dB
Typical Peak Isolation ( $\lambda_c$ , 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

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[www.agiltron.com](http://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=∅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

\*Product dimensions may change without notice. This is sometimes required for non-standard specifications.