

1310/1550 Twin Single Mode Single Stage Optical Isolator

(patents pending)

Product Description

The OITS Series 1310/1550 Twin Single Stage Optical Isolator integrates two independent isolators into one standard isolator package. Each isolator 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

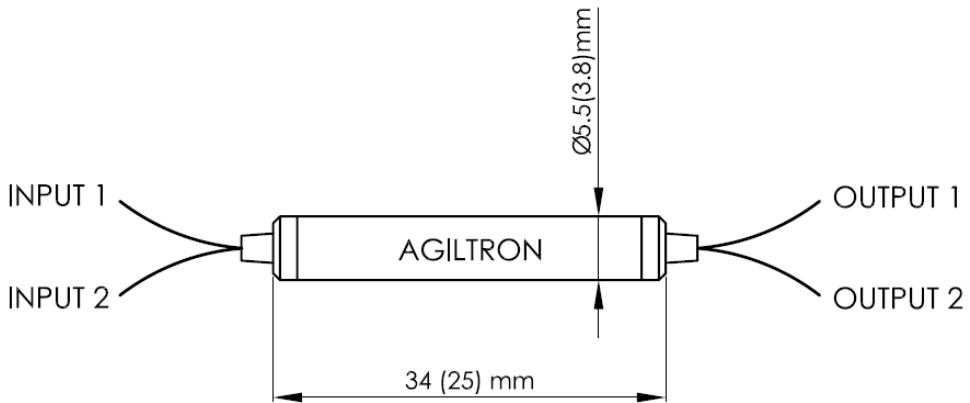
Optical Parameters (each channel)		Specification	Unit
Operation Wavelength (λ_o)	1310	1310 \pm 15	nm
	C Band	1550 \pm 15	
	L Band	1585 \pm 15	
Typical Insertion Loss (Over λ_o , 23°C)		0.5	dB
Maximum Insertion Loss (Over λ_o & T_o)		0.65	dB
Minimum Isolation (Over λ_o , 23°C)		30	dB
Typical Peak Isolation (λ_c , 23°C)		42	dB
Minimum Directivity (λ_c , 23°C)		55	dB
Minimum Crosstalk (Over λ_o , 23°C)		50	dB
Polarization Dependant Loss (Over λ_o & T_o)		\leq 0.15	dB
Polarization Mode Dispersion (Over λ_o & T_o)		\leq 0.2	ps
Minimum Return Loss (Over λ_o & T_o , Input/Output)		55/55	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 3.8 x L25	mm

Applications

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

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Mechanical Dimensions (Unit:mm)



Ordering Information

OITS-	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		
Single stage=10	1310=3 C Band=C L Band=L Special=0	Standard=1 Special=0	$\varnothing 5.5 \times 34=1$ $\varnothing 3.8 \times 25=2$ Special=0	SMF-28=1 Special=0	Bare Fiber=1 900um Loose Tube=3 Special=0	0.25m=1 0.5m=2 1.0m=3 Special=0	None=1 FC/PC=2 FC/APC=3 SC/PC=4 SC/APC=5 ST/PC=6 LC=7 Special=0	