

1310/1550 Mini High-Power Single Mode Optical Isolator (10W)

Product Description

The OISM Series optical Isolator is a passive device that passes light in the normal direction while blocks light in the reverse direction for any state of polarization. Employing Agiltron's advanced all glass micro optics design, it features ultra-low insertion loss, high power handling (up to 10W CW), high isolation, ultra-mini structure, and high stability. The device is RoHS compliant and Telcordia qualified, an ideal choice for applications in fiber amplifiers, pump lasers and optical fiber sensors.



Performance Specifications

OISM Mini Dual Stage		Specification	Unit
Operation Wavelength (λ_o)	1310	1310 $\pm$ 15	nm
	C Band	1550 $\pm$ 15	
	L Band	1585 $\pm$ 15	
Typical Insertion Loss (λ_c , 23°C, no connector)		$\leq$ 0.45	dB
Maximum Insertion Loss (Over λ_o , 23°C, no connector)		$\leq$ 0.50	dB
Minimum Isolation (Over λ_o , 23°C)		$\geq$ 45	dB
Typical Peak Isolation (λ_c , 23°C)		$\geq$ 55	dB
Polarization Dependant Loss		$\leq$ 0.1	dB
Polarization Mode Dispersion		$\leq$ 0.05	ps
Return Loss (Minimum, Input/Output)		$\geq$ 55	dB
Operating Temperature		-5 ~ +70	°C
Storage Temperature		-40 ~ +85	°C
Optical Power Handling*		$\leq$ 10	W
Package Dimensions		$\varnothing$ 3.0x30 **	mm

* Continuous operation, for pulse operation call.

** Heat sink is required

Features

- Low Insertion Loss
- High Power Handling
- Compact
- High Reliability
- Low Cost
- RoHS Compliant
- Low Cost

Applications

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

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Ordering Information

OISM-			1	5				
	Type	Wavelength	Grade	Package	Fiber Type	Fiber Length	Connector	
	20=Dual stage	3=1310 C=C Band L=L Band 0=Special	10 W	5=Ø3x30	SMF-28=1 Special=0	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.

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