

1310/1550 Single Stage Polarization Maintaining Optical Isolator

Product Description

1310/1550 polarization maintaining single stage optical isolator is a passive device that maintaining polarization while guiding light at 1310/1550 nm in the normal direction, and 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, high power handling, extremely high isolation, high extinction ratio, compact package and high stability. These Telcordia qualified components have excellent cha ideal choice for application in fiber amplifier systems, optical fiber sensors and instrumentation.



Performance Specifications

OIPM Single Stage		Specification	Unit
Operation Wavelength (λ_o)	1310	1310 \pm 15	nm
	S Band	1465 ~ 1495	
	C Band	1535 ~ 1565	
	L Band	1570 ~ 1605	
Typical Insertion Loss (Over λ_o , 0-70°C, no connector)		\leq 0.5	dB
Maximum Insertion Loss (Over λ_o , 0-70°C, no connector)		\leq 0.65	dB
Minimum Extinction Ratio (Over λ_o , 0-70°C, no connector)		\geq 20	dB
Typical Extinction Ratio (λ_c , 23°C, no connector)		\geq 25	dB
Minimum Channel Isolation (Over λ_o , 0-70°C)		\geq 32	dB
Typical Channel Isolation (λ_c , 23°C)		\geq 42	dB
Minimum Return Loss (Input/Output, no connector)		\geq 50	dB
Polarization Alignment		Slow Axis	
Operating Temperature		0 ~ +70	°C
Storage Temperature		-40 ~ +85	°C
Optical Power Handling		\leq 500	mW
Package Dimensions		\varnothing 5.5 x L34	mm

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Features

- Low Insertion Loss
- High Extinction Ratio
- High Isolation
- Compact Package
- High Reliability & Stability
- Cost Effective

Applications

- Optical Fiber Amplifier
- Metropolitan Area Network
- Fiber Optic Sensor
- Instrumentation

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Ordering Information

OIPM-	10							
Type	Wavelength	Grade	Package	Fiber Type		Fiber Length	Connector	
10=Polarization maintaining single stage	3=1310 C=C Band L=L Band S=S Band 0=Special	1=Standard 0=Special	1=∅5.5x34 0=Special	A=Panda 400µm B=Panda 250µm 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	