

## 2 Micron Fiber Isolator

Polarization Insensitive: AP-ISO-2000PI

Polarization Maintaining: AP-ISO-2000PM

An isolator is typically used to block light traveling in the backward direction, preventing instability and damage to a laser system caused by back reflection.

### Features:

- Mid-IR wavelength region
- Low insertion loss
- High isolation
- Excellent stability and reliability
- Small package



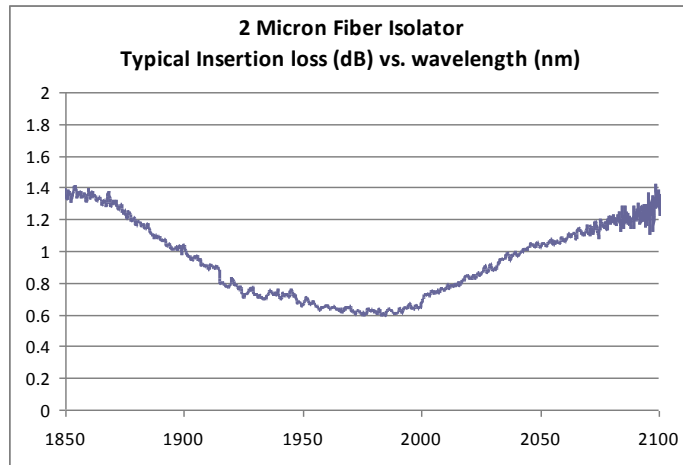
### Product Characteristics:

Parameters	Unit	Specification	
		AP-ISO-2000PI	AP-ISO-2000PM
Operating Wavelength	nm	1980	1980
Max. Average Power	W	2	2
Max. Peak Power (pulsed version)	kW	10	10
Min. Isolation (dual stage, at 25°C)	dB	35 (at ±50 nm)	35 (at ±50 nm)
Max. Insertion Loss (dual stage, -5°C to 70°C)	dB	1.5 (at ±20 nm)	1.5 (at ±20 nm)
Min. Return Loss (Input/Output)	dB	50	50
Max. Polarization Dependent Loss	dB	0.2	N/A
Max. Polarization Mode Dispersion	ps	0.3	N/A
Min. Polarization Extinction Ratio	dB	N/A	18
Operating Temperature	°C	-5 to +70	
Storage Temperature	°C	-40 to +85	
Max. Tensile Load	N	5	
Package Dimensions	mm	ø5.5 x 35 (55 fiber to fiber)	
Fiber Pigtail		SMF-28e Fiber 250 μm Bare Fiber Fiber Length 1.0 m	Panda PM 1550 Fiber 250 μm Bare Fiber Fiber Length 1.0 m

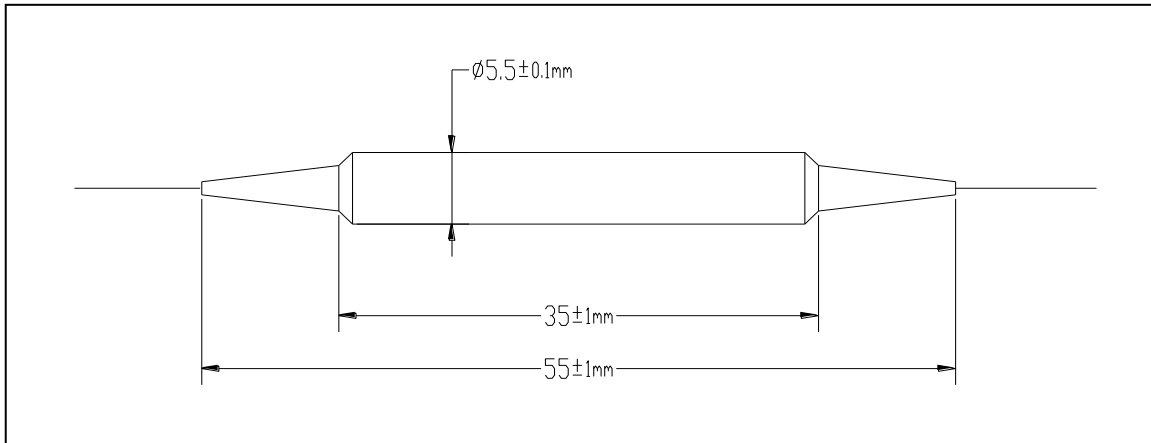
*Note: Above specifications are for device without connectors. For device with connectors, Max. Average Power Specification is 1W, Insertion Loss is 0.3 dB higher and Return Loss is 5 dB lower for each connector.*

*Specifications subject to change without notice*

## Typical Insertion Loss Spectrum:



## Mechanical Outline:



## Ordering Information:

### 2 Micron Polarization Insensitive Fiber Isolator

AP-ISO-2000PI	-	2	-	xx	-	B	-	1	-	N	-	x
		No. of stages: 2 = dual stage		Max. power 02 = 2W		Fiber pigtail: B = 250µm bare fiber		Fiber length: 1 = 1m		Connector: N = no connector		Operation Mode: C = CW P = Pulsed

### 2 Micron Polarization Maintaining Fiber Isolator

AP-ISO-2000PM	-	2	-	xx	-	B	-	1	-	N	-	x
		No. of stages: 2 = dual stage		Max. power 02 = 2W		Fiber pigtail: B = 250µm bare fiber		Fiber length: 1 = 1m		Connector: N = no connector		Operation Mode: C = CW P = Pulsed

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