

1550nm Fiber Isolator

Polarization Insensitive: AP-ISO-1550PI

Polarization Maintaining: AP-ISO-1550PM

An isolator is typically used to block light traveling in the backward direction. The design of epoxy-free optical path provides the device with high power handling capability.

Features:

- Low insertion loss
- High isolation
- High power
- High extinction ratio (PM version)
- Excellent stability and reliability

**High
power up
to 10W!**

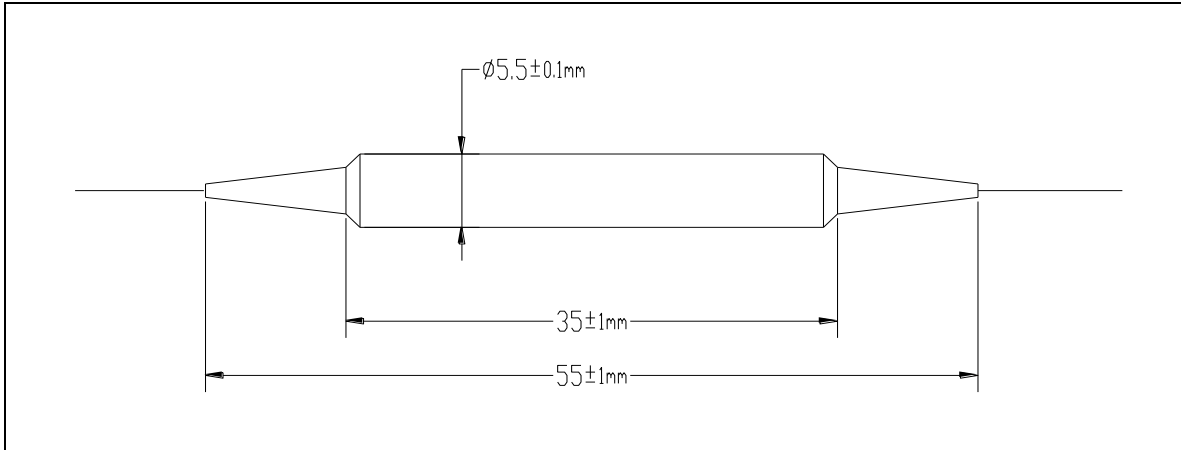


Product Characteristics:

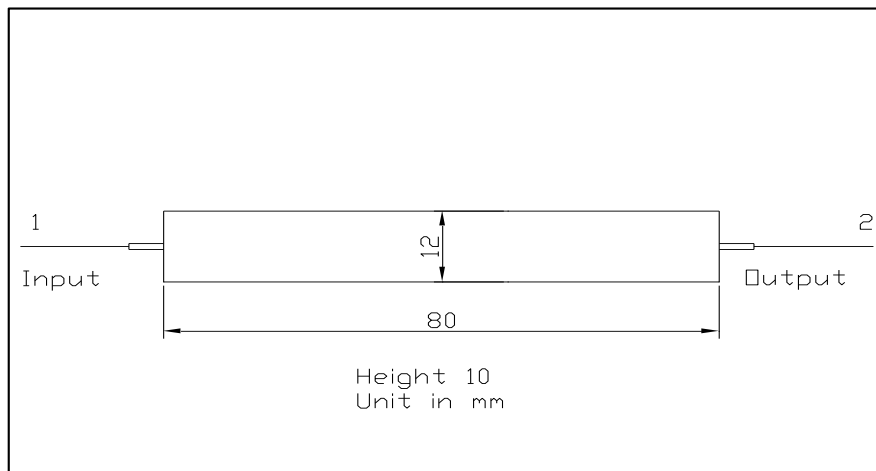
Parameters	Unit	Specification	
		AP-ISO-1550PI	AP-ISO-1550PM
Center Wavelength	nm	1550	1550
Operating Wavelength	nm	+/-20	+/-20
Max. Optical Power (CW)	W	1, 5, 10	1, 5, 10
Typical Peak Isolation (dual stage)	dB	58	58
Min. Isolation at 23°C (dual stage)	dB	48	48
Typical Insertion Loss at 23°C	dB	0.4	0.5
Max. Insertion Loss at -5°C to 70°C	dB	0.55	0.65
Min. Return Loss (Input/Output)	dB	55/50	55/50
Max. PDL at 23°C	dB	0.05	N/A
Max. PMD	ps	0.05	N/A
Min. Extinction Ratio	dB	N/A	22
Package Dimensions	mm	∅5.5 x 35 (for 1-5 W) 12 x 10 x 80 (for 10 W)	12 x 10 x 80 (for 1-5 W) 12 x 10 x 80 (for 10 W)
Operating Temperature	°C	-5 to +70	
Storage Temperature	°C	-40 to +85	
Max. Tensile Load	N	5	
Fiber Type		SMF-28e Fiber 250 μm Bare Fiber	PM Panda Fiber 250 μm Bare Fiber
Fiber Length	m	1.0	
Fiber Termination		None (no connectors)	

Specifications subject to change without notice

Mechanical Outline:



Package $\phi 5.5 \times 35$ mm



Package 12 x 10 x 80 mm

Ordering Information:

1550nm Polarization Insensitive Fiber Isolator

AP-ISO-1550PI	-	2	-	xx	-	B	-	1	-	N
		No. of stages: 2 = dual stage		Max. Power 01 = 1W 05 = 5W 10 = 10W		Fiber pigtail: B = 250 μ m bare fiber SMF-28 single mode fiber		Fiber length: 1 = 1m		Connector: N = no connector

1550nm Polarization Maintaining Fiber Isolator

AP-ISO-1550PM	-	2	-	xx	-	B	-	1	-	N	-	S
		No. of stages: 2 = dual stage		Max. Power 01 = 1W 05 = 5W 10 = 10W		Fiber pigtail: B = 250 μ m bare fiber Panda PM 1550 fiber		Fiber length: 1 = 1m		Connector: N = no connector		Axis alignment: S = slow axis working B = both axes working

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