

50W 1 Micron High Power Fiber Isolator

(All-Fiber Structure, No Free Space Element)
AP-aISO

This world's first all-fiber isolator utilizes AdValue Photonics' proprietary fiber technology, eliminating all free-space elements and containing no open optical surfaces. Its design is inherently reliable and ideal for high power fiber laser applications.

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

Applications:

- Fiber laser systems
- Fiber amplifier systems

World's First All-Fiber Isolator!



Features:

- High power
- All-fiber construction with no free-space element
- Extraordinary reliability
- Integrated backward power monitoring port



Multi-Channel Option

Optical Characteristics:

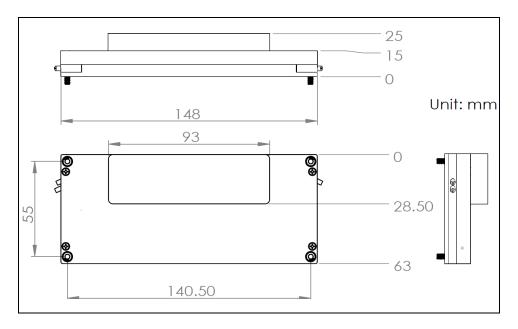
Parameter	Specification						
	Polarization Maintaining (PM)						
Operating Wavelength	1064, 1030 nm						
Optical Power (CW)	>50 W						
Backward Power Handling	>50 W						
Isolation	>20 dB						
Insertion Loss	1.5 dB						
Min. Return Loss	50 dB						
Input/Output Fiber	Panda PM fiber 10/125 μ m, 0.08 NA, 3 mm jacket, fiber length > 0.5 m						
Multi-Channel Option	1-Channel, 2-Channel, or 3-Channel						

(For special requirement, please contact AdValue Photonics for options.)

General Characteristics:

Parameter	Specification
Maximum Tensile Load	5 N
Operating Temperature	20 to 45 °C
Storage Temperature	-10 to +70 °C
Operating Humidity	0 to 85%
Storage Humidity	0 to 85%
Package Dimensions	148W x 63D x 25H mm

Mechanical Outline:



Ordering Information:

Part Number:	AP-aISO	-	xxxx	-	xx	-	ХХ	
			Standard Wavelength: 1064 = 1064 nm Custom Wavelength: xxxx = xxxx nm		Optical Power: 50 = 50 W xx = xx W		Polarization: PM = polarization maintaining	

Units: mm