

5W 1550nm Single-mode Dual Stage Fiber Isolator Isolation 45dB



● Product Description

Idealphotonics' fiber isolator products can maintain excellent return optical isolation performance under any polarization state. It has low loss, high isolation, high return loss, low polarization-dependent loss, low polarization mode dispersion, wide operating band and operating temperature range, and no glue in the optical path. These properties provide the possibility for low-cost solutions for communication networks.



This series of products can be used in erbium-doped amplifiers, wavelength division multiplexing systems, fiber optic equipment and lasers.

● Product features

Wide operating wavelength range & wide operating temperature range 、
Low insertion loss & high isolation 、 Polarization dependent loss and small
polarization mode dispersion、 Optical path without glue、 High reliability
and stability

● Part Number

MP-ISO-F-1550-5-D-SA-1

● Application area

Fiber Amplifier、 WDM & DWDM system、 Fiber equipment、 Fiber laser

● Core parameters

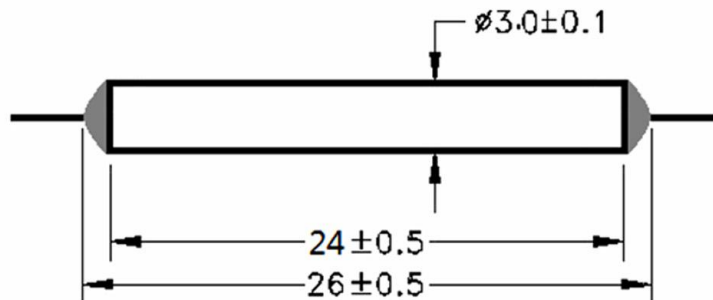
Wavelength	Operating Power	Single/Dual Stage
1550nm	5W	Dual Stage

● Dimension Drawing

Standard size fiber isolators



Mini fiber isolators



● General Parameters

Parameter	Unit	1*1	
Type		<5W High Power In-Line Optical Isolator (HPI)	5W-10W High Power In-Line Optical Isolator (HPI)
Operating Wavelength	nm	1310/1550/1590	
Operating Bandwidth	nm	±20	



Single/Dual Polarity		Single Stage	Dual Stage	Single Stage	Dual Stage
Insertion Loss	dB	<0.45	<0.60	<0.50	<0.60
Isolation (A+/-15nm)	dB	29.00	46.00	28.00	45.00
PDL	dB	<0.10	<0.10	<0.10	<0.10
Max PMD	dB	0.05/0.20	0.05	0.05/0.20	0.05
Return Loss	dB	55.00			
Operating Temperature	Deg.	-5-75			
Storage Temperature	Deg.	-40-85			
Fiber Length	m	1.00±0.10			
Fiber Type		G657A1 or Customized			
Operating Power	W	<5W	5W-10W		
Dimensions	mm	5.5x36	60x12x8		

*.All indicators are without connectors and are only valid at the above wavelengths, polarization states and temperatures.

**..Indicators are subject to change without prior notice.



Ordering Information

MP-ISO- W□□□□-SS-S○-P▽-☆-△-XX

W□□□□: Wavelength

1310: 1310nm

1550: 1550nm

2000: 2004nm

S○: Single/Dual stage

11: Single stage

22: Dual stage

P▽: Handling Power

1: 1w

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10: 10w

☆ : Pigtail Length

05: 0.5m

1: 1m

10: 10m

△: Loose Tube

B: Bare Fiber

9: 900um Loose Tube

20: 2mm Loose Tube

30: 2mm Loose Tube



XX: Fiber and Connector Type

SA=SMF-28E+ FC/APC

SP=SM--28e+ FC/PC

PA=PM1550 Fiber+ FC/APC

PP=PM 1550Fiber+ FC/PC