

1550nm Single-Mode Single-Stage Fiber Isolator (FCAPC)



- **Product Description**

IdealPhotonics' optical isolator products maintain excellent back-reflection isolation performance under any polarization state. They feature low insertion loss, high isolation, high return loss, low polarization-dependent loss (PDL), low polarization mode dispersion (PMD), a wide operating wavelength and temperature range, and an epoxy-free optical path. These characteristics make them a cost-effective solution for

communication networks. This series of products is suitable for erbium-doped amplifiers, wavelength division multiplexing (WDM) systems, fiber optic equipment, and lasers.

● Product features

Wide operating wavelength range & wide operating temperature range 、
Low insertion loss & high isolation 、 Low polarization-dependent loss and
polarization mode dispersion 、 Epoxy-free optical path 、 Extremely high
reliability and stability

● Part Number

MP-ISO-F-1550-A-S-SA-1

● Application area

Fiber amplifiers 、 WDM & DWDM systems 、 Fiber optic equipment 、 Fiber
lasers

● Core parameters

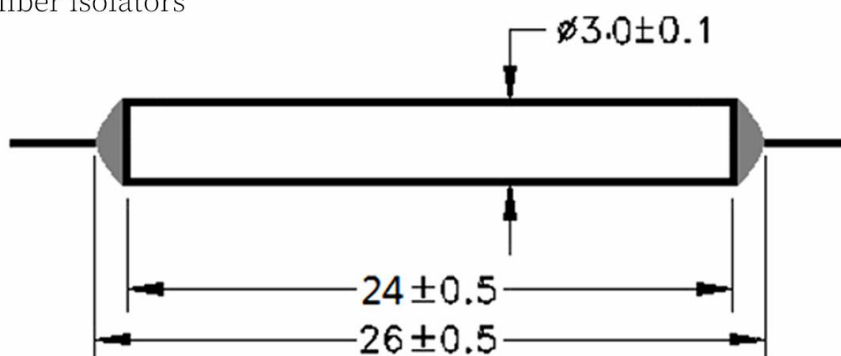
Central wavelength	Isolation	Fiber pigtail connector type
1550nm	>28dB	FC/APC

● Dimension Drawing

Standard size fiber isolators



Mini fiber isolators



● General Parameters

Parameters

Parameter	Unit	Value	Remark
Central wavelength (nm)	nm	1550 or 1310	1030/1053/1064/ etc. (Wavelength can be customized)

Operating bandwidth	nm	± 15	
Insertion loss	dB	≤ 0.6	1550nm,30mw,DFB
Isolation	dB	≥ 28 single stage	@25 Celsius
		≥ 46 dB dual stage	
Isolation	dB	≥ 20	Full temperature: -40-+75°C
Polarization-dependent loss	dB	≤ 0.1 dB	
Fiber type	N/A	SMF-28E+/PM 1550 ect.(SM or PM)	1030/1053/1064nm optional Hi1060(other fiber types optional)
Polarization film dispersion	Ps	< 0.25	
Polarization dispersion	Ps	< 0.05	
Return loss (incoming/ outgoing)	dB	$> 60/55$ dB	
Maximum operating power	mW	500	
Operating temperature	°C	-5-70°C	
Storage temperature	°C	-40-85°C	

Test light source		1550nm benchtop light source/ 1060nm DFB	
Pakeage size(mm)		As shown below	

Note:

*.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-F-W-A-S/D-XX-PL

F: fiber coupling

W□□□□: Wavelength

0980:980nm

0850:850nm

1064:1064nm

1310:1310nm

1550:1550nm

A: 500mW

Isolation Class:

S for Single-Stage, D for Dual-Stage

XX: Fiber and Connector Type

SA=SMF-28E+ FC/APC

SP=SMF-28E+ FC/PC

SN= Bare fiber, no connector

PA=PM Fiber+ FC/APC

PP=PM Fiber+ FC/PC

Pigtail Length:

05:0.5m

1: 1m

10:10m