

# 1550nm Polarization-Maintaining Single-Stage Fiber Isolator Mini



- **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-PA-1-mini

- **Application area**

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

- **Core parameters**

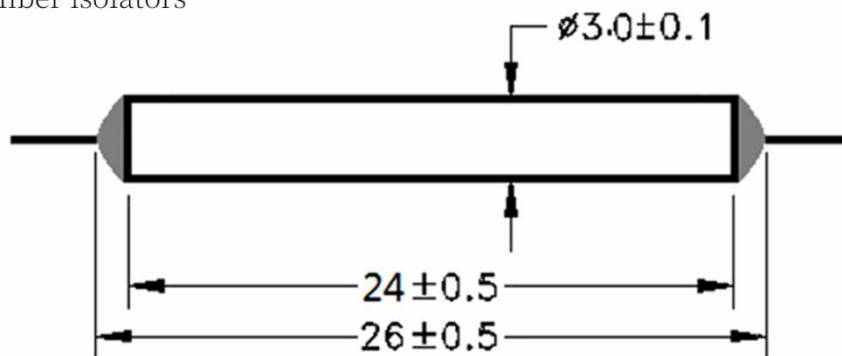
Central wavelength	Isolation	Fiber pigtail connector type
1550nm	>28dB	FC/APC

## ● 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



<b>Isolation</b>	<b>dB</b>	<b>≥28 single stage</b>	<b>@25 Celsius</b>
		<b>≥46 dB dual stage</b>	
<b>Isolation</b>	<b>dB</b>	<b>≥20</b>	<b>Full temperature: -40+75°C</b>
<b>Polarization-dependent loss</b>	<b>dB</b>	<b>≤0.1dB</b>	
<b>Fiber type</b>	<b>N/A</b>	<b>SMF-28E+/PM 1550 ect.(SM or PM)</b>	<b>1030/1053/1064nm optional Hi1060(other fiber types optional)</b>
<b>Polarization film dispersion</b>	<b>Ps</b>	<b>&lt;0.25</b>	
<b>Polarization dispersion</b>	<b>Ps</b>	<b>&lt;0.05</b>	
<b>Return loss (incoming/ outgoing)</b>	<b>dB</b>	<b>&gt;60/55dB</b>	
<b>Maximum operating power</b>	<b>mW</b>	<b>500</b>	
<b>Operating temperature</b>	<b>°C</b>	<b>-5-70°C</b>	
<b>Storage temperature</b>	<b>°C</b>	<b>-40-85°C</b>	
<b>Test light source</b>		<b>1550nm benchtop light source/ 1060nm DFB</b>	



Pakeage size(mm)		As shown below	
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**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**

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**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**