

## 5050 2000nm 1x2 single mode Fiber Coupler



- **Product Description**

MP-FBC-W2000 series single-mode fiber coupler is a coupler for mid-infrared band splitting developed and produced by our single-mode fiber fused taper machine IPCS-5000-SMT. It has excellent performance and can cover the entire communication band (1900-2220nm). At the same time, we can provide customers with more cost-effective narrow-band couplers with a central wavelength of 1950nm, 2004nm, 2050nm, and 2327nm with a bandwidth of  $\pm 20$  nm. The maximum power of our coupler with connector or bare fiber is 500 mW. We have 50:50, 75:25, 90:10 or 99:1 coupling ratio

couplers for customers. Our 2x2 couplers are based on the fused taper process, so they are bidirectional, and any port can be used as the input

- **Product features**

Mid-infrared (MIR) band optimization 、 High power handling 、 Precise splitting ratio control、 Low insertion loss、 Environmental stability

- **Part Number**

MP-FBC-2000-A-1-50/50-SA

- **Application area**

Visible light communication、 Power monitoring、 Optical splitter、 Test equipment

- **Core parameters**

Central wavelength	Coupling ratio	Port Structure
2000nm	50:50	1X2

- **General Parameters**

Parameters

Parameter of MP-FBC-W2000	
Central wavelength	1900-2400nm



<b>Bandwidth</b>	$\pm 20\text{nm}$
<b>Insertion loss</b>	$< 3.8\text{dB}$
<b>Return loss</b>	$> 55\text{dB}$
<b>Fiber type</b>	SM1950
<b>Operating power</b>	500mw
<b>Connector</b>	FC/APC or FC/PC
<b>Operating temperature</b>	-10-+70°C
<b>Storage temperature</b>	-45-+85°C
<b>PDL</b>	$\leq 0.15 \text{ dB}$
<b>Uniformity</b>	$\leq 1.0 \text{ dB}$
<b>Dimension</b>	
<b>Package size</b>	3.0mm ( $\Phi$ ) x 60.0mm (L)
<b>Pigtail length</b>	1m
<b>Whether charging is working</b>	No

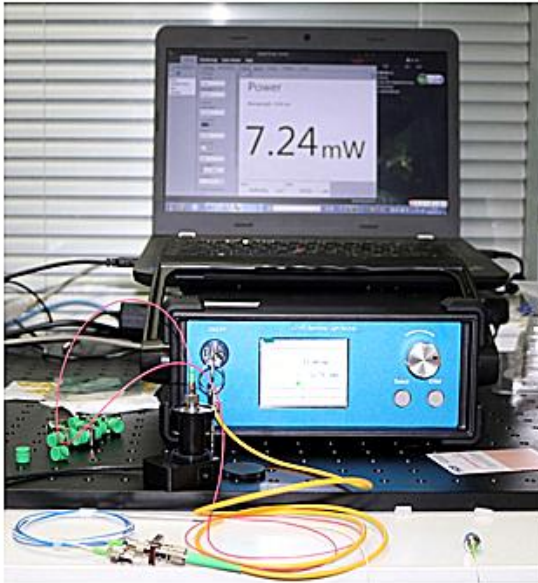
**Note:**

1. All test results do not include joints
2. We can accept customization for better parameters or other requirements

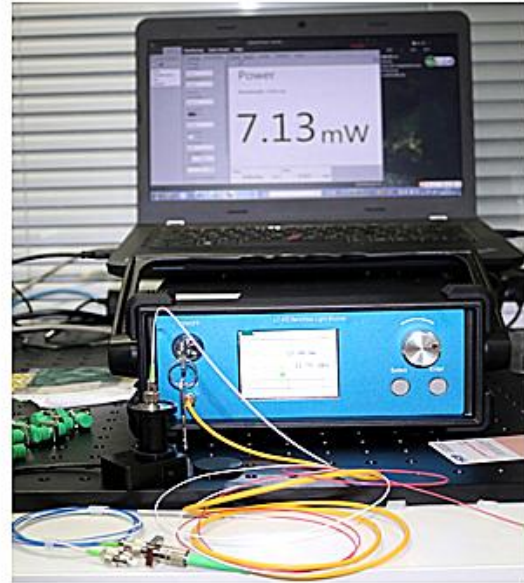
**Single point data test 2X2, 50:50, full-band  
single-mode fiber coupler (broadband SLD center  
wavelength 1950nm, spectrum width: 125nm 15mw  
single-mode SLD laser test as an example)**



MP-FBC-W2000Red port@ 1950nm



MP-FBC-W2000White port@ 1950nm



## Ordering information

MP-FBC - W□□□□-A-S○-CR▽-XX

W□□□□: Wavelength

1310:1310nm

1392:1392nm

1512:1512nm

1532:1532nm

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1550:1550nm

1650-1650nm

1216:1260-1620nm



**1742:1742nm**

**1950:1950nm**

**2004:2004nm**

**A: 500mW**

**S○: Port Structure**

**1:1x2**

**2:2x2**

**CR▽:**

**01/99: 1:99**

**10/90: 10:90**

**25/75:25:75**

**50/50: 50:50**

**XX: Fiber and Connector Type**

**SA=SMF-28E+ FC/APC**

**SP=SMF-28E+ FC/PC**

**PA=PM Fiber+ FC/APC**

**PP=PM Fiber+ FC/PC**