

## 01:99 1x2 Full Band Single Mode Fiber Coupler



### ● Product Description

The single-mode fiber coupler is a coupler for near-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 (1260-1620nm). At the same time, we can provide customers with more cost-effective narrowband couplers with a central wavelength of 1310nm, 1392nm, 1480nm, 1512nm, 1550nm, 1650nm, 1742nm with a bandwidth of  $\pm 20$ nm. The maximum power of our coupler with connector or bare fiber is 500mW. 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

Fused fiber couplers for 1260-1620nm、 50:50, 75:25, 90:10, or 99:1 coupling ratios、 Bidirectional coupling (either end can be used as input)、 2.0 mm narrow key FC/PC or FC/APC connectors、 Each broadband coupler comes with its own test report

## ● Part Number

MP-FBC-1550-A-1-001/999-SA

## ● Application area

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

## ● Core parameters

Wavelength	Port Structure	Coupling Ratio
1260-1620nm	1x2	01:99

## ● General Parameters

### Main Parameters:

Central wavelength	1260-1620nm
Bandwidth	360 nm
Insertion loss	<3.8dB
Return loss	>55dB
Fiber type	SMF-28E
Operating power	500mw
Connector	FC/APC or FC/PC
Operating temperature	-10+70°C
Storage temperature	-45+85°C
PDL	≤ 0.15 dB
Uniformity	≤ 1.0 dB
<b>Dimension information</b>	
Package size	3.0mm (Φ) x 60.0mm (L)
Pigtail length	1m
Operate whether charging	No

### Note:

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



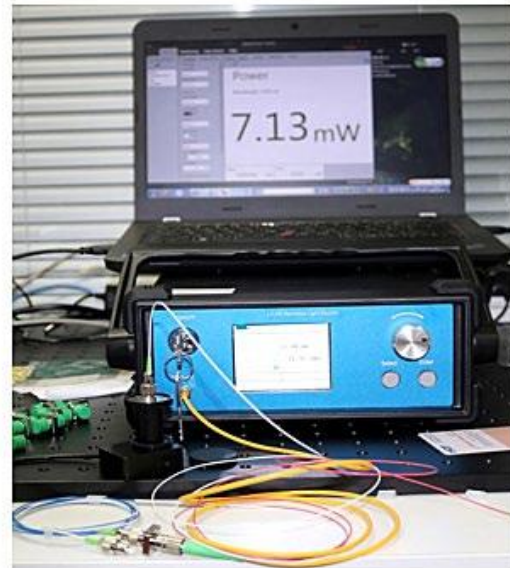
# Single point data test 2X2, 50:50, full-band single-mode fiber coupler

(Broadband SLD center wavelength 1550nm, spectrum width: 125nm 15mw single-mode SLD laser test as an example)

red port@1550nm



white port@1550nm



MP-FBC - W□□□□-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**

**SO: Port Structure**

**12:1x2**

**22:2x2**

**CR▽:**

**0199: 1:99**

**1090: 10:90**

**2575:25:75**

**5050: 50:50**

**☆ : 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=SMF-28E+ FC/PC**

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

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