

1550nm narrow linewidth frequency stabilized laser module 2kHz-5kHz single mode



● 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 ± 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-1-10/90-SA

- **Application area**

Visible light communication、 Power monitoring、 Optical splitting、 Test instrumentation
Fiber optic sensor

- **Core parameters**

Central wavelength	Coupling ratio	Port Structure
2000nm	10:90	1X2

- **General Parameters**

Parameters

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



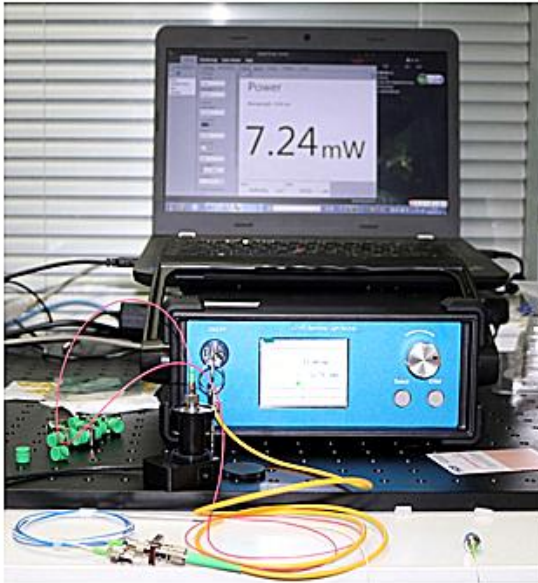
Bandwidth	$\pm 20\text{nm}$
Insertion loss	$< 3.8\text{dB}$
Return loss	$> 55\text{dB}$
Fiber type	SM1950
Operating power	500mw
Connector	FC/APC or FC/PC
Operating temperature	-10-+70°C
Storage temperature	-45-+85°C
PDL	$\leq 0.15 \text{ dB}$
Uniformity	$\leq 1.0 \text{ dB}$
Dimension	
Package size	3.0mm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

Note:

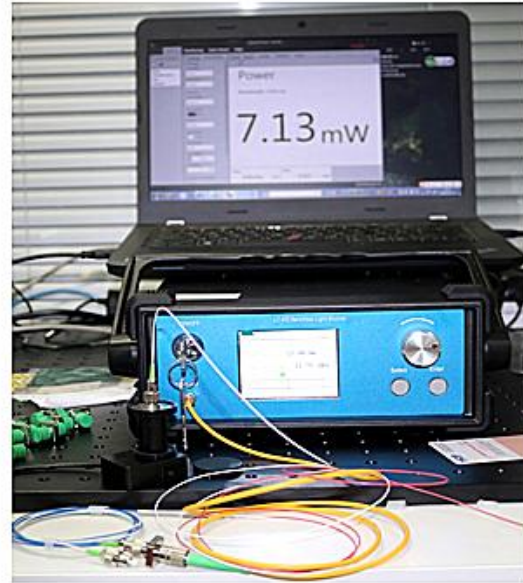
1. All test results do not include joints
2. We can accept customization for better parameters or other requirements

**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

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