

50:50 1x2 850nm single mode Fiber Coupler



● Product Description

MP-FBC-W8492 VISW series single-mode fiber couplers are developed and produced based on our single-mode fiber fused taper machine IPCS-5000-SMT. They are used for white light band splitting. They have excellent performance and can cover the entire white light band (840-920nm). At the same time, we can provide customers with more cost-effective narrowband couplers with a central wavelength of 840nm (OCT application field), 880nm, and 915nm (LiDAR application field). The bandwidth is ± 20 nm. The maximum power of our couplers with connectors



or bare fibers is 500mW. We have a variety of coupling ratios of 50:50, 75:25, 90:10 or 99:1 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 840-920nm、 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-850-A-1-50/50-SA

● Application area

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

● Core parameters

Central Wavelength	Coupling Ratio
850nm	50: 50



● General Parameters

Parameters

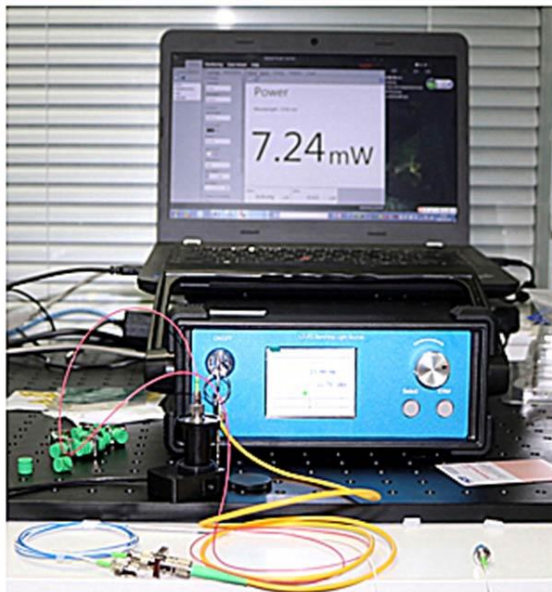
MP-FBC-W8492 parameter	
Central wavelength	840-920nm
Bandwidth	80 nm
Insertion loss	<3.8dB
Return loss	> 55dB
Fiber type	SW780
Operating power	500mw
Connector	FC/ APC or FC/ PC
Operating temperature	-10 -+70 °C
Storage temperature	-45 -+85 °C
PDL	≤0.15 dB
Uniformity	≤1.0 dB
Dimension	
Package size	3.0mm (Φ) x 60.0mm (L)
Pigtail length	1m
Is charging working	No

Note: 1. All test results do not include connectors.

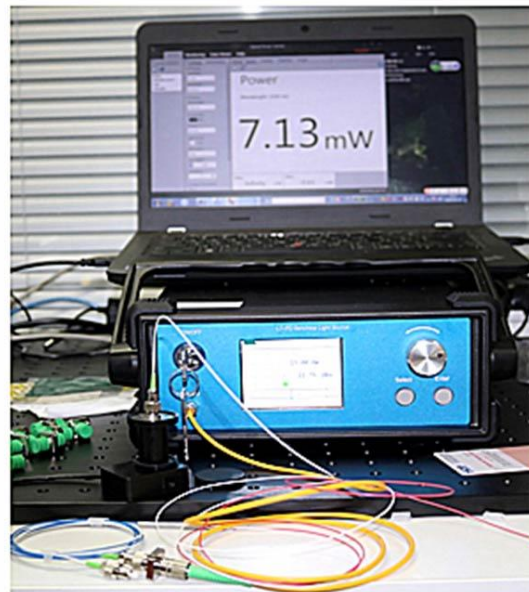
2. We can accept customization for better parameters or other requirements

Single point data test 2X2, 50:50, full-band single-mode fiber coupler (broadband SLD center wavelength 910nm, spectrum width: 45nm 15mw single-mode SLD laser test as an example)

MP-FBC-W8591 red port@910nm



MP-FBC-W1216 white port@910nm



Ordering information

MP-FBC - W□□□□-S○-CR▽-☆-△-XX

W□□□□: Wavelength

850: 850nm

915: 915nm



S ○ : 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=SW780+ FC/APC

SP=SW780+ FC/PC

PA=PM850+ FC/APC

PP=PM850+ FC/PC