

10:90 $840 \pm 15\text{nm}$ 1x2 single mode Fiber Coupler



● Product Description

The MP-FBC VISIBLE series single-mode fiber couplers are developed and produced based on our single-mode fiber fusion taper machine IPCS-5000-SMT. They are used for visible light band splitting. They have excellent performance. We can provide customers with narrowband couplers with central wavelengths of 405nm, 488nm, 532nm, 633nm, and 650nm. The bandwidth is ± 20 nm. The Max. power of our couplers with connectors or bare fibers 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 fusion taper process, so they are bidirectional, and any port can be used as the input

● Product features

Fusion fiber optic coupler, used for 405nm, 488nm, 532nm, 633nm 、
 Coupling ratios: 50:50, 75:25, 90:10, or 99:1、 Bidirectional coupling (either end can be used as the input) 、 2.0mm narrow-key FC/PC or FC/APC connectors、 Each broadband coupler is accompanied by its own test report

● Part Number

MP-FBC-840-A-1-10/90-SA

● Application area

Visible light communication、 Power monitoring、 Optical power splitting、
 Testing instruments

● Core parameters

Central Wavelength	Coupling Ratio
840nm	10:90

● General Parameters

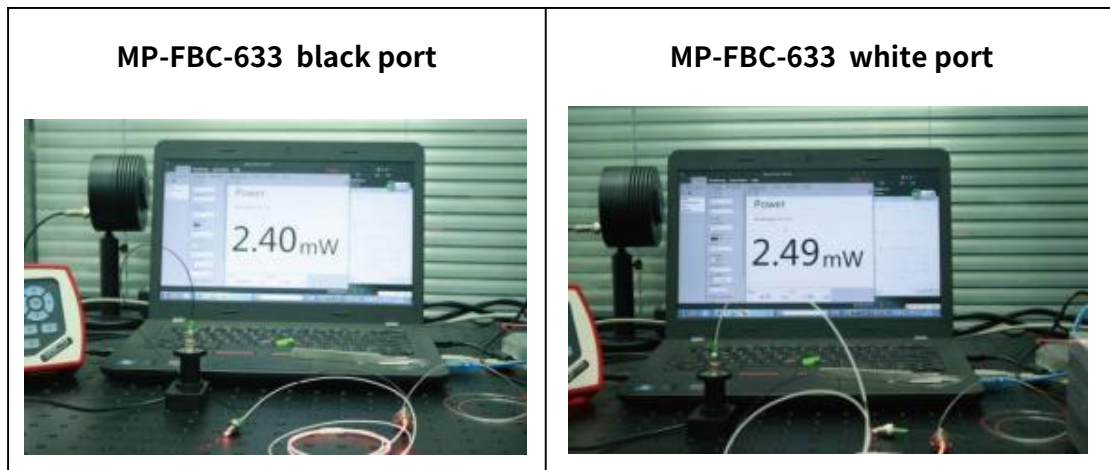
Technical Parameters

MP-FBC-840 Parameters	
Spectral	
Central Wavelength	840 nm
Bandwidth	±15 nm
Insertion Loss	<3.7 dB
Return Loss	> 55dB
Fiber Type	630-HP/S M600
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 Information	
Package Size	3.0mm (Φ) x 60.0mm (L)
Pigtail Length	1m
Rechargeable	No

Note:

1. All test results do not include connectors.
2. Better parameters or other requirements can be customized.

Single-point data testing 1X2, 50:50 (633nm, 5mW single-mode fiber optic coupler laser testing as an example)



Ordering Info

MP-FBC-W□□□□-S○-CR▽-☆-△-XX

W□□□□: Wavelength

0405: 405nm

0488: 488nm

0532: 532nm

0633: 633nm

0650: 650nm

S○: Port Structure

12: 1x2

22: 2x2



13: 1x3

33: 3x3

CR▽: Coupling Ratio

0199: 1:99

1090: 10:90

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 = PMFiber + FC/APC

PP = PMFiber + FC/PC