

# 1:99 650nm 1x2 Single-mode Fiber Optic Coupler

## Coupler



### ● Product Description

The MP-FBC VISIBLE series single-mode fiber optic coupler is developed and produced based on our single-mode fiber fusion splice machine IPCS-5000-SMT. It is designed for light splitting in the visible wavelength range with excellent performance. We can offer couplers with central wavelengths of 405nm, 488nm, 532nm, 633nm, and 650nm, with a narrow bandwidth of  $\pm 20\text{nm}$ . Our couplers have a maximum power rating of 500mW when used with connectors or bare fiber. We offer various coupling

ratios such as 50:50, 75:25, 90:10, or 99:1 for customer selection. Our 2x2 couplers, based on the fusion splicing process, are bidirectional, meaning 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-650-A-1-01/99-SA

## ● Application area

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

## ● Core parameters

Central Wavelength	Coupling Ratio
650nm	1:99



## ● General Parameters

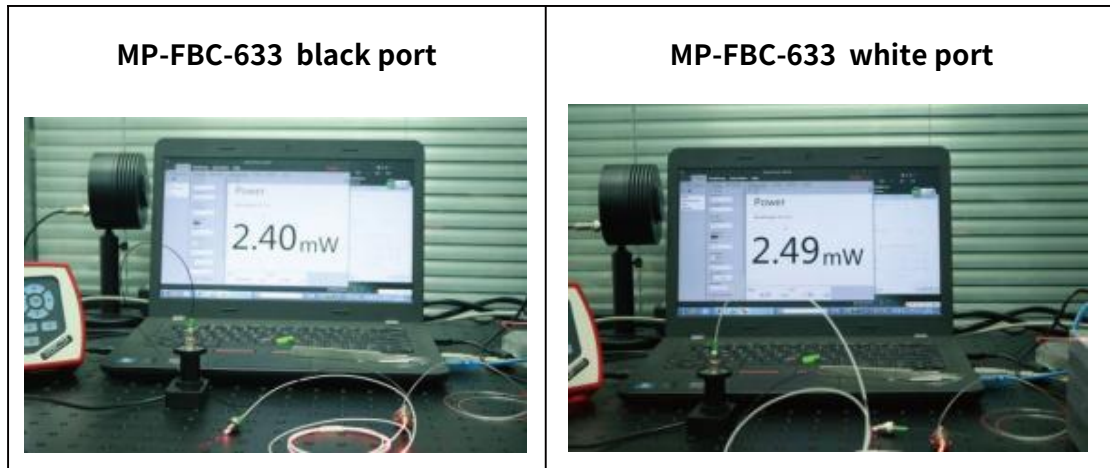
### Technical Parameters

MP-FBC-650 Parameters	
Spectral	
Central Wavelength	650 nm
Bandwidth	±20 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**