

## 25:25:25:25 1X4 Full Band Fused Taper Single Mode Fiber Coupler Module 1310-1550nm



### ● Product Description

The single-mode fiber coupler is a coupler for near-infrared band splitting developed and produced based on 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 narrow-band couplers with a central wavelength of 1310nm, 1392nm, 1480nm, 1512nm, 1550nm, 1650nm, 1742nm with a bandwidth of  $\pm 20$ nm. The Max. 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 all work in both directions, and any port can be used as the input en.

## ● Product features

Fused Fiber Coupler 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-1315-A-14-SA-M

## ● Application area

Visible light communication、 Power Monitoring、 Optical splitting、 Test Equipment

## ● Core parameters

Wavelength	Port Structure	Coupling Ratio
1310-1550nm	1x4	25:25:25:25

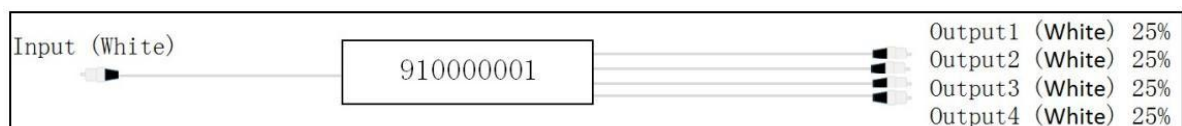
## ● General Parameters

### Model parameters

parameter	unit	1*4
Working wavelength	nm	1310~1550nm
CR	%	25/25/25/25
Max. optical power ( Common)	W	2.00
Max. Insertion Loss	dB	≤7.80
EL	dB	≤0.50
PDL	dB	≤0.30
RL	dB	≥45.00
Dir	dB	≥50.00
Fiber length	m	2.00~2.15
Operating temperature	°C	-5~+85
Storage temperature	°C	-40~+85
Fiber Type	-	Corning SMF 28 Ultra
Connector Type		FC/APC
Loose tube type		Hytrel 7237
Loose tube diameter	um	900
Package size	mm	4.00*65

Note: These parameters do not include connectors. Add 0.30 dB to IL .

## Schematic diagram





## Model and ordering

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: 3mm 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