

10:90 2x2 full-band high-power single-mode Fiber Coupler



● Product Description

MP-FBC-W1216 NIR 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 1310nm, 1392nm, 1480nm, 1512nm, 1550nm, 1650nm and 1742nm. The bandwidth is ± 20 nm. The Max. power of our couplers with connectors or bare fibers is 10W. 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

Fused fiber couplers 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、 Small size, high power handling

● Part Number

MP-FBC-1216-C-2-10/90-SA

● Application area

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

● Core parameters

Operating Wavelength	Coupling Ratio	Product Structure
1260-1620nm	10:90	2×2



● General Parameters

Parameters

Product structure	Unit	1×2	2×2
Product type	Full-band high-power fiber couple		
Operating wavelength	nm	1260-1620	
Operating bandwidth	nm	360	
Max. Insertion loss	50/50	%	3.80/3.80
	40/60	%	5.10/3.10
	20/80	%	8.30/1.60
	10/90	%	11.50/1.05
	5/95	%	14.60/0.80
	2/98	%	18.80/0.70
	1/99	%	22.50/0.65
PDL	dB	≤0.15	
Return loss	dB	≥50.00	
Direction	dB	≥55.00	
Operating temperature	Deg.	-5~75	
Storage temperature	Deg.	-40~85	
Fiber length	m	1.00±0.10	
Fiber type		G657A1/Customized	
Max. Operating power	W	10W	
Package dimension	mm	3×54	75×12×8

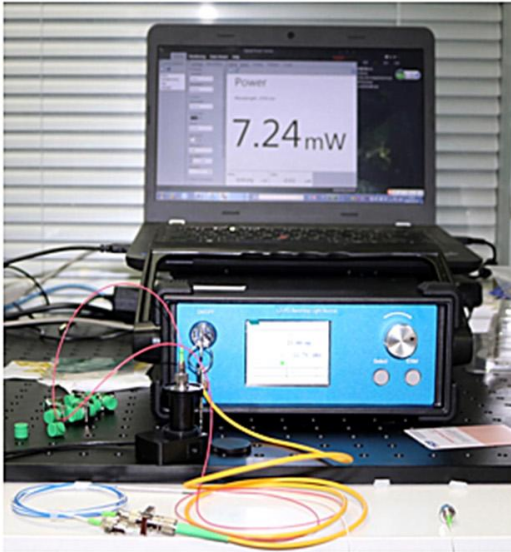
Note: 1. All test results do not include connectors.

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

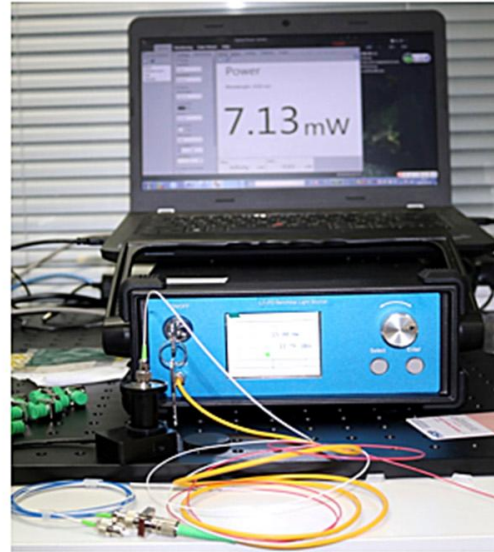


Single point data test 2X2, 50:50 full-band single-mode fiber couple (broadband SLD central wavelength 1550nm, spectral width: 125nm 15mw, single mode SLD laser test as an example)

MP-FBC-W1216 redport@1550nm



MP-FBC-W1216 whiteport@1550nm



Ordering information

MP-FBC- W□□□□-S○-CR▽-☆-△-XX-□□

W□□□□: Wavelength

1310:1310nm

1392:1392nm

1512:1512nm

1532:1532nm

1550:1550nm



1216:1260-1620nm

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: 2mm 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

□□: Package

T:Tube 3x54mm

M: Module 75x12x8mm