

01:99 1x2 Full Band Single Mode Fiber Coupler



● Product Description

NIR-FBC-W1216 NIR series single-mode fiber coupler is a coupler for near-infrared band splitting developed and produced by 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 narrowband couplers with a central wavelength of 1310nm, 1392nm, 1480nm, 1512nm, 1550nm, 1650nm, 1742nm with a bandwidth of ± 20 nm. The maximum 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 are bidirectional, and any port can be used as the input.

● Part Number

NIR-FBC-W1550-S1-001999-1-9-SA

● 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

● Application area

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

Parameters

Main Parameters:

NIR-FBC-W1216	
Central wavelength	1260-1620nm
Bandwidth	360 nm
Insertion loss	<3.8dB
Return loss	>55dB
Fiber type	SMF-28E
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
Operate whether charging	No

- Note: 1. All test results do not include joints
 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 1550nm, spectrum width: 125nm 15mw
 single-mode SLD laser test as an example)

NIR-FBC-W1216 red port@1550nm



NIR-FBC-W1216 white port@1550nm



NIR-FBC - W□□□□-S○-CR▽-☆-△-XX W□□□□:

Wavelength□□□□

1310:1310nm

1392:1392nm

1512:1512nm

1532:1532nm

1550:1550nm

1650-1650nm

1216:1260-1620nm

1742:1742nm

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=SMF-28E+ FC/APC

SP=SMF-28E+ FC/PC

PA=PM Fiber+ FC/APC

PP=PM Fiber+ FC/PC