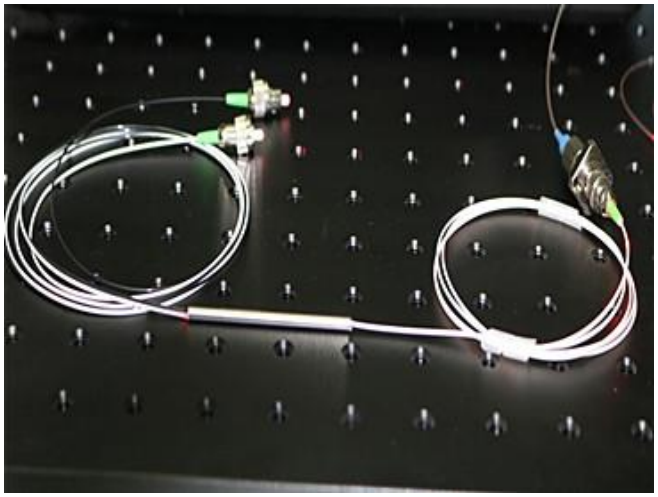
440nm 1x2 High Power Large Core Multimode Fiber Coupler



Product Description

The large core fiber couplers. are used for visible light band splitting. They have excellent performance. Unlike multimode fibers (50/125, 62.5/125) widely used in fiber optic communication systems, large core fibers are usually used to transmit larger laser powers and special working bands. At the same time, due to the large core diameter and high numerical aperture of the fiber, the uniformity and stability of large core fiber splitting are affected by many factors (such as laser mode, laser injection method, etc.).

With the accumulation of many years of high-energy laser transmission experimental foundation and the research on the reliability of military devices, we can provide fiber splitters with core diameters of 125um to 1500um, as well as large core fiber splitters working at all wavelengths. The products have extremely high resistance to high-power laser shock and high environmental reliability. Since its establishment, the company has continuously invested in research and development to optimize and improve the melting process of special large core fiber splitters and product packaging processes. We have made breakthroughs in product miniaturization, multi-core optical fiber one-time melting molding, laser mode sensitivity removal, etc. We have provided large-core optical fiber splitter products exclusively to many domestic and foreign customers.

- ## Product features

Fused Fiber Coupler for 405nm 440nm 488nm 532nm 633nm、 50:50, 75:25, 90:10 or 99:1 coupling ratios 、 2.0 mm narrow key FC/PC or FC/APC connectors、Each splitter comes with its own test report、Operating power: 10W

- ## Part Number

MP-FBC-440-C-1-50/50-M400A

Application area

Visible light communication、 Power monitoring、 Optical splitting、 Test instrument

Core parameters

Peak Wavelength	Splitting Ratio
440nm	50：50

General Parameters

Parameters

Central wavelength	440nm
Bandwidth	±80 nm
Insertion loss	＜3.7dB
Return loss	＞55dB
Fiber type	200/230 NA0.37 or 400/440 NA0.22 or 600/630 NA0.22 or 105/125 NA0.22
Structures that can be made	1X2,1X3,1X4……1X16
Operating power	10w
Connector	SMA905
Operating	-10-+150℃

temperature	
Storage temperature	-45-+85℃
PDL	⩽ 0.15 dB
Uniformity	⩽ 1.0 dB
Dimension	mm
Dimension	
Package dimension	Φ6.0*60 stainless steel pipe
Pigtail length	1m
Whether charging works	No

Note:

1. All test results do not include connectors

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

Single point data test 1X2,50:50 (440nm, 5mw single mode fiber coupled laser test as an example)

633nm black port

633nm whiteport

Ordering information

MP-VIS-MFC-W□□□□ -S○-CR▽ -☆-△ -XX

W□□□□: Wavelength

0405:405nm

0440-440nm

0488:488nm

0532:532nm

0633:633nm

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0650:650nm

S○ : Port Structure

12: 1x2

22:2x2

13: 1x3

33:3x3

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116: 1X16

CR▽ :

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

MM4A=MM400/ 440+ SMA905

MM6A=MM600/ 630+ SMA905

MM2FA=MM200/ 220+ FC/APC

MM1FA=MM105/ 125+ FC/APC