

2.0μm Mode Field Adaptor– Backward

Key Features

- Low Insertion Loss
- High Power Handling
- Custom Configurations Available

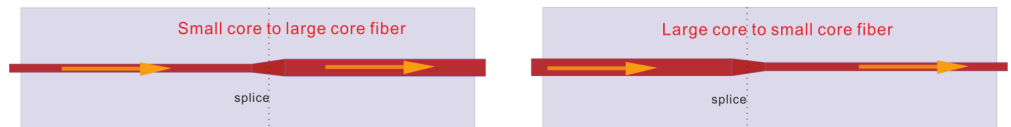
Applications

- Fiber Lasers
- Fiber Amplifiers

Mode field is different in fibers with different core diameter and NA. Splicing loss is large between two fibers with different mode field. In order to reduce splicing loss, mode field must be similar. MFA can optimize splice loss significantly, usually <0.5dB, even <0.3dB between different fibers.

Mode Field Adaptors is designed to makes two fibers to keep mode field diameter matched with low fundamental mode signal loss and minimal degradation of beam quality (M2). These devices can also be used to absorb residual pump light in the reverse direction, preventing damage to the seed or isolator.

Define small MFD fiber to large MFD fiber is F-Forward, large MFD to small MFD is B-Backward. Custom Mode Field Adaptors can be designed to meet a wide range of fiber types.



For more Info

Please contact us at:

Tel: +86-755-23736280

Fax: +86-755-26746512

E-mail: sales@dkphotonics.com

<https://www.dkphotonics.com>

Add.:

4F, Bldg. 18, Qinghu Industrial Park,

Dahe Road, Longhua Dis.,

Shenzhen, China 518109

Package Information

| Package Type | P1 | P2 | P3 |
|-----------------|---------|---------|---------|
| Dimensions (mm) | Φ4.0x60 | 65x12x7 | 80x12x8 |

* Due to ongoing design improvements, the package size is subject to change. We will choose the appropriate package size according to different stripping power and fiber cladding. Please contact DK Photonics for confirmation.

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General Configuration

| Working Wave-length(nm) | Signal Input Fiber | Signal Output Fiber | Signal Insertion Loss (dB) | Max. Power Handling |
|-------------------------|-------------------------|-------------------------|----------------------------|---------------------|
| 1950~2050 | 10/130μm, NA0.15/0.46 | SM1950 | ≤0.5 | 20W |
| 1950~2050 | 25/250μm, NA0.09/0.46 | 10/130μm, NA0.15/0.46 | ≤0.7 | 50W |
| 1950~2050 | PM10/130μm, NA0.15/0.46 | PM1950 | ≤0.5 | 20W |
| 1950~2050 | PM25/250μm, NA0.09/0.46 | PM10/130μm, NA0.15/0.46 | ≤0.7 | 50W |

Remark:

1. Other configuration and higher power handling can be customized.
2. All MFA default with bare fiber, 0.8m length of pigtail, please contacts us for special request.
3. The signal loss means the fundamental mode signal loss.
4. ER≥18dB for PM fiber MFA.

Order information P/N: MFA (PMMFA)-A-B-C-D-E-F

When you inquire, please provide the correct P/N number according to our ordering information, and attach the appropriate description would be better. If need any connector, we do not recommend choosing a 250μm bare fiber pigtail.

| A | B | C | D | E | F |
|--------------------|---------------------------|---------------------------------------|------------------|-------------------|--|
| Working Wavelength | Direction | Power Handling | Input Fiber Type | Output Fiber Type | Fiber length |
| 2000:2000nm | F: Forward B: Backward | 05:5W 25:25W 50:50W XX:Other | XXX (fiber code) | XXX (fiber code) | 08:0.8m(default) 10:1.0m 20:2.0m |

Part Number Example: PMMFA-2000-B-10-P10/130/15D-P19-08

Description: 2000nm PM Mode Field Adaptor, Backward, Max. 10W power handling, PM 10/130μm, 0.15/046NA input signal fiber, PM1950 output fiber, 0.8m fiber length.

Ordering Information for Custom Parts

If you need to customize other specifications, please provide detailed description for your requirement.