

## 1.5 $\mu$ m Mode Field Adaptor– Backward

### Key Features

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

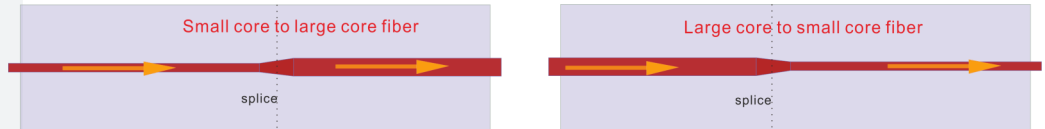
Mode field is different in fibers with different core diameter and NA. Splicing loss is large between two fibers with different mode field. In order to reduce splicing loss, mode field must be similar. MFA can optimize splice loss significantly, usually <0.5dB, even <0.3dB between different fibers.

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.

### Applications

- Fiber Lasers
- Fiber Amplifiers



## For more Info

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### Package Information

Package Type	P1	P2	P3
Dimensions (mm)	$\Phi$ 4.0x60	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.

## 1.5μm Mode Field Adaptor– Backward

### General Configuration

Working Wavelength (nm)	Signal Input Fiber	Signal Output Fiber	Signal Insertion Loss (dB)	Max. Power Handling
1530~1570	SM-GDF-1550	SMF-28	≤0.5	20W
1530~1570	12/130μm, NA0.20/0.46	SM-GDF-1550	≤0.5	20W
1530~1570	25/300μm, NA0.09/0.46	12/130μm, NA0.20/0.46	≤0.7	20W
1530~1570	PM-GDF-1550	PM1550-XP	≤0.5	30W
1530~1570	PM 12/130μm, NA0.20/0.46	PM-GDF-1550	≤0.5	30W
1530~1570	PM 25/300μm, NA0.09/0.46	PM 12/130μm, NA0.20/0.46	≤0.7	30W

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
15:1550nm	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-15-B-P15D-P15X-08

**Description:** 1550nm PM Mode Field Adaptor, Backward, Max. 10W power handling, PM-GDF-1550 input signal fiber, PM1550-XP 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.