

MULTIMODE COMPONENTS

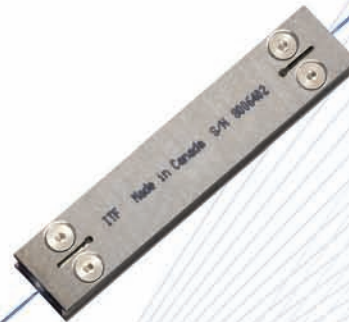
Mode Field Adaptor

ITF Labs' Mode Field Adaptor feature exceptional optical characteristics.

These devices expand the mode field of a single mode fiber to match the size of the LP01 mode on the multimode output fiber.

This ensures maximum power transmission and minimum degradation of the signal quality (m^2). These devices can also be used to absorb residual pump light in the reverse direction, preventing damage in your seed or to the isolator.

These devices are qualified in both low and high dissipation version for high power applications like fiber lasers and amplifiers. Custom Mode Field Adaptors can be designed to meet a wide range of fiber types.



For more information on this or other products and their availability, please contact our customer service at

514.748.4848 (Int'l) /
1.888.922.1044 (Canada & USA only)
or via e-mail at info@itflabs.com

KEY FEATURES

- High Power Transfer Efficiency
- Preservation of Modal Content
- Wide Optical Wavelength Band
- Custom Configurations Available
- RoHS Compliant

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SPECIFICATIONS

STANDARD CONFIGURATIONS

Product Code	MFA100S1080	MFA100S1090	MFA100S2021	MFA100S7021
Optical Specifications				
Operating Wavelength	1530-1575 nm	1530-1575 nm	1040-1080 nm	1040-1080 nm
Input Fiber core/clad diameter NA	SMF-28	SMF-28	HI 1060	10 µm/125 µm 0.08
Output Fiber core/clad diameter NA	20 µm/125 µm 0.11	20 µm/200 µm 0.11/0.46	20 µm/400 µm 0.06/0.46	20 µm/400 µm 0.06/0.46
Maximum Absorbed Power ¹	1 W	1 W	10 W	10 W
LP01 Maximum Insertion Loss	< 0.5 dB	< 0.5 dB	< 0.5 dB	< 0.5 dB
Optical Return Loss	45 dB	45 dB	45 dB	45 dB
Mechanical Specifications				
Dimensions	L: 50 mm ⊖: 3.0 mm	L: 65 mm ⊖: 3.0 mm	60 x 12 x 6.5 mm	60 x 12 x 6.5 mm
Fiber Pigtail Length				
Input	> 750 mm	> 750 mm	> 750 mm	> 750 mm
Output	> 500 mm	> 500 mm	> 500 mm	> 500 mm

¹The maximum absorbed power corresponds to the power from the insertion loss and the backward light.

ORDERING INFORMATION

For standard products, please use product codes specified above.
ITF Labs can also develop custom mode field adaptors to meet a wide range of technical requirements.



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