



Multimode Components



Key Features

High Power Transfer Efficiency

Preservation of Modal Content

Wide Optical Wavelength Band

Custom Configurations Available

RoHS Compliant

Applications

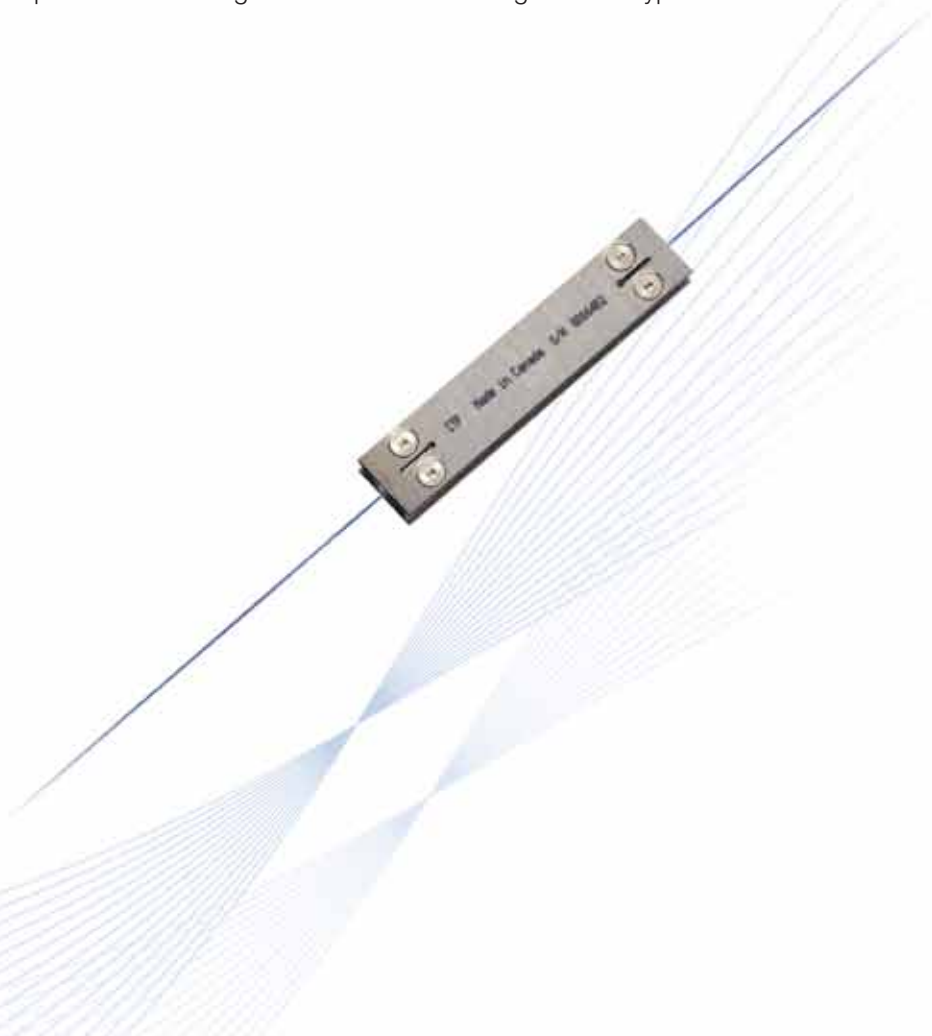
Fiber Lasers

Fiber Amplifiers

Mode Field Adaptor

ITF Labs' Mode Field Adaptors feature exceptional optical characteristics. These devices expand the mode field of a single mode fiber to match the size of the LP01 mode of 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 to the seed or isolator.

These devices are qualified in both low and high dissipation versions 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 info

Please contact us at:

North America: **514.748.4848**
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光技術をサポートする

株式会社オプトサイエンス

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Multimode Components

SPECIFICATIONS* STANDARD CONFIGURATIONS

Mode Field Adaptor

Product Code	MFA100S2101	MFA100S2021	MFA100S2041	MFA100S7101	MFA100S7021
Optical Specifications					
Operating Wavelengths	1040-1080 nm				
Input Fiber					
Core/clad diameter	HI 1060			10/125 µm	10/125 µm
NA				0.08/0.46	0.08
Output Fiber					
Core/clad diameter	25/250 µm	20/400 µm	25/300 µm	25/250 µm	20/400 µm
NA	0.06/0.46	0.06/0.46	0.06/0.46	0.06/0.46	0.06/0.46
Maximum Cladding Light Absorption (1)	10 W				
Maximum Transmitted Power (2)	100 W				
LP01 Maximum Insertion Loss	< 0.5 dB				
Mechanical Specifications					
Dimensions	60 x 12 x 6.5 mm				
Fiber Pigtail Length Input/Output (3)	A= 1000 mm B= 2000 mm C= 3000 mm				

- (1) Not designed to guide clad borne light
- (2) Higher power rating available on request
- (3) Pricing is dependant on fiber pigtail length

Revised Jan 2012

*Specifications subject to change without notice.

ORDERING INFORMATION

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

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3SPGroup
 Strategic Partner



Multimode Components



Key Features

High Power Transfer Efficiency

Preservation of Modal Content

Wavelength Insensitive

High PER

Custom Configurations Available

RoHS Compliant

Applications

PM Fiber Lasers

PM Fiber Amplifiers

PM Mode Field Adaptor

ITF Labs' PM Mode Field Adaptors feature exceptional optical characteristics. These devices expand the mode field of a PM single mode fiber to match the size of the LP01 mode of 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 to the seed or isolator.

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



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Multimode Components



PM Mode Field Adaptor

SPECIFICATIONS* STANDARD CONFIGURATIONS

Product Code	PFA100S2021	PFA100S6021	PFA100S2061	PFA100S6061	PFA100S2051
Optical Specifications					
Operating Wavelengths	1060 nm				
Input Fiber					
Core/clad diameter	PM Panda 980	PM 10/125 μm	PM Panda 980	PM 10/125 μm	PM Panda 980
NA		0.08		0.08	
Output Fiber					
Core/clad diameter	PM 20/400 μm		PM 25/250 μm		PM 25/250 μm
NA	0.06/0.46		0.11/0.46		0.06/0.46
Maximum Cladding Light Absorption (1)	10 W				
Maximum Transmitted Power (3)	100 W				
LP01 Maximum Insertion Loss	< 0.5 dB				
Polarization Extinction Ratio	> 15 dB				
Mechanical Specifications					
Dimensions	60 x 12 x 6.5 mm				
Fiber Pigtail Length Input/Output (2)	A= 1000 mm B= 2000 mm C= 3000 mm				

(1) Not designed to guide clad borne light
(2) Pricing is dependant on fiber pigtail length
(3) Higher power rating available on request

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