

MODE FIELD ADAPTER

Features:

- · High power handling capability
- · Spanning a wide optical spectral range
- · Adapts and conserves modal content
- · Custom design flexibility



Applications:

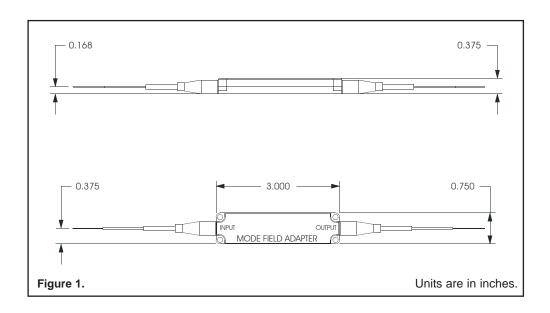
- High power fiber lasers
- High power pigtailed isolators
- · High Power fiber optic component manufacturing
- · Research and design



Product Description:

A mode field adapter is an essential device to efficiently transfer light for a standard singlemode fiber to the LP01 mode of large mode area (LMA) and low order mode multimode fibers. The performance is greatly superior to using a regular splice, as an ordinary splice will produce in a degraded quality output beam, with a poor M2 factor.

Mode field adapters also generate lower losses than ordinary splices, thus ensuring higher power transmission compared to regular splicing.



Ordering Information for Standard Parts:

Barcode	Part number	Description		
39991	MFA-6/125-20/125-0.11-0.08-S-LMA-XX-1-1	Mode field adapter from a 6/125 μm (NA=0.11) singlemode input fiber to a 20/125 LMA fiber with an NA of 0.08. The device is pigtailed with 1 meter long 900 micron loose tube cabled fibers with no connectors on either end.		
TBD	MFA-6/125-25/125-0.11-0.08-S-LMA-XX-1-1	Mode field adapter from a 6/125 µm (NA=0.11) singlemode input fiber adapted to a 25/125 LMA fiber with an NA of 0.08. The device is pigtailed with 1 meter long 900 micron loose tube cabled fibers with no connectors on either end.		
TBD	MFA-6/125-20/130-0.11-0.08-S-LMA-XX-1-1	Mode field adapter from a 6/125 μm (NA=0.11) singlemode input fiber to a 20/130 LMA fiber with an NA of 0.08. The device is pigtailed with 1 meter long 900 micron loose tube cabled fibers with no connectors on either end.		
TBD	MFA-6/125-25/250-0.11-0.06-S-LMA-XX-1-1	Mode field adapter from a 6/125 μm (NA=0.11) singlemode input fiber to a 25/250 LMA fiber with an NA of 0.06. The device is pigtailed with 1 meter long 900 micron loose tube cabled fibers with no connectors on either end.		

Standard Product Specifications:

Parameters	Unit	Value				
Wavelength	nm	1040-1080				
Input fiber (Core/Clad)	um/um	6/125				
Output fiber (Core/Clad)	um/um	20/125	25/125	30/125	25/250	
NA core (Output Fiber)		0.08	0.08	0.08	0.06	
NA clad (Output Fiber)		0.46	0.46	0.46	0.46	
Max power transmitted	W	> 50				
Max Insertion loss	dB	< 0.5				
Dimensions (L x W x H)	(mm x mm x mm)	76 x 19 x 10				

Custom Ordering Information:

OZ Optics welcomes the opportunity to provide custom designed products to meet your application needs. As with most manufacturers, customized products do take additional effort so please expect some differences in the pricing compared to our standard parts list. In particular, we will need additional time to prepare a comprehensive quotation, and lead times will be longer than normal. In certain cases non-recurring engineering (NRE) charges, lot charges, and/or a minimum order will be necessary. These points will be carefully explained in your quotation, so your decision will be as well informed as possible.

Description:

