



# Mode Field Adaptor (MFA) - Backward version

# Description

This  $1 \times 1$  Mode Field Adaptor is designed for high power fiber laser application.

It connects two different fibers with different NA and core diameter, as well as cladding, to keep mode field diameter matched with low fundamental mode signal loss and minimal degradation of beam quality (M2). Fiber types can be customized.

# Feathure

High Signal Transfer Efficiency Low Degradation of Beam Quality Wide Wavelength Range Applicable Customized Configurations Available

# Application

Fiber Laser

Fiber Sensor

#### **Specification**

Ite	Signal Input Fiber	Signal Output Fiber	Signal Insertion Loss
1	10/125 DCF or SCF,		=<0.
	15/125 DCF or SCF,		=<0.
	20/125 DCF or SCF,	HI1060 or 6/125 DCF, 0.14NA	=<0.
	20/400 DCF or SCF,		=<0.
2	15/125 DCF, 0.08NA		=<0.
	20/125 DCF, 0.08NA		=<0.
	25/250 DCF, 0.06NA	10/125 DCF, 0.08NA	=<0.
	30/250 DCF, 0.06NA		=<0.
3	10/125 PM DCF or SCF		=<0.
	20/125 PM DCF or SCF	SM98-PR-U25A (PM)**	=<0.

\* The signal loss means the fundamental mode signal loss; \*\*  $ER \ge 18 dB$  for PM fiber MFA.





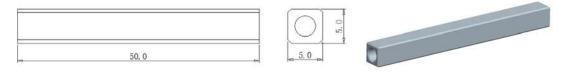
Ite	Parameters/Test	Min	Тур	Мах	Unit	Not
1	Output Beam M <sup>2</sup>			1.3	-	
2	Fiber Length	0.8			m	Each port
3	Operating Environment	-5		+70	°C	
4	Operating Humidity	5		95	%RH	Not recommended under
5	Storage Temperature	-40		+85	°C	
6	Package		C1,		-	Refer to drawing.

Note: For backward version, handling power depends on mode distribution in input fiber.

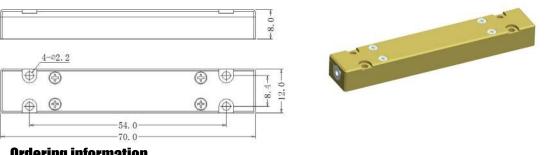
High order modes are forbidden.

# Package Dimensions

# C1: 50x5x5mm



# C4: 70x12x8mm



# **Ordering information**

MFA-1×1-B-Signal wavelength-Input signal fiber/Output signal fiber-Package-Fiber length

Input signal fiber/Output signal fiber: refer to fiber codes. Package: C1, C4