LIGHTEL

LASER COMPONENTS®

Mode Field Adapter

(PM or Non-PM)

Mode Field Adapters (MFA) can be used for high power fiber lasers and fiber amplifiers. These devices can be used to connect two fibers with different core diameters and numerical apertures (NA). Lightel's MFAs utilize mode field optimization technology to obtain high transfer efficiency and low beam degradation.

Features

- High Power
- High Transfer Efficiency
- Custom Configurations Available
- Stable and Reliable

Applications

- High Power Fiber Lasers
- Fiber Amplifiers

Specifications

Parameter	Specification					
Port Configuration	1x1					
Operating Wavelength	1030~1080nm or 1450~1600nm					
SMA Fiber	6/125	10/125	10/125	6/125	20/250	62.5/125
LMA Fiber	10/125	20/125	25/250	20/400	30/250	105/125
Signal IL for Forward use	0.3 dB	0.4 dB	0.5 dB	0.5 dB	0.2 dB	-
Signal IL for Reverse use	0.3 dB	0.5 dB	0.7 dB	0.7 dB	0.2 dB	2 dB
Total Power Handling	10W				50W	10W
Polarization Extinction Ratio	≥18dB for PM Fiber					
Return Loss	>45dB					
Pigtail	Standard 1m or custom					
Operating Temperature	0~75˚C					
Storage Temperature	-40~85˚C					

Note 1: Values are referenced without connectors.
Note 2: Other package dimensions and optical performances available by request.

Ordering Information

M F A – ___ – ___ – ___ – ___ – ___

Direction
F: Forward
R: Reverse

Pump Fiber
04: HI1060 NA:0.14
29: DCF-UN-10/125DC
30: 10/125DC NA:0.08/0.46
72: DCF-UN-8/105/125-14

Signal Fiber
41: LMA-GDF-20/130-M NA:0.08/0.46
47: Passive-25/250DC NA:0.07/0.46
49: LMA-GDF-20/400-M NA:0.06/0.46
72: DCF-UN-8/105/125-14

Package Size(mm)
1: D4.0xL60 SST
2: 50x5x5
3: 75x12x8

Special Code

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