



Multimode Components



KeyFeatures

High Power Transfer Efficiency

Wavelength Insensitive

Custom Configurations Available

RoHS Compliant

Applications

Fiber Lasers

HIGH POWER Pump Combiners For Direct Pumping Applications

ITF Labs' Multimode Pump Combiners feature exceptional optical characteristics. These devices can be used to combine the power from several multimode laser diodes, delivering the combined power for applications in industrial, military, medical and telecommunications markets.

ITF Labs' "all glass" Multimode Combiners offer efficient power transfer for high power applications like direct diode materials processing and pump cascading with a maximum conservation of brightness. The Multimode Combiners can be designed to meet a wide range of power handling configurations, number of input fibers and adaptation to different fiber types.



For moreInfo

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Multimode Components

**HIGH POWER
Pump Combiners
For Direct Pumping
Applications**

SPECIFICATIONS* STANDARD CONFIGURATIONS

Product Code	MMC070110E1	MMC07012091	MMC13012091	MMC19012091*	MMC19012011	MMC190130J1*
Optical Specifications						
Pump Operating Wavelengths	800-1000 nm					
Number of Multimode Inputs	7		13		19	
Number of Signal Ports	0					
Number of Output Ports	1					
Pump Input Fiber						
Core/clad diameter	105/125 μm		105/125 μm		200/220 μm	
NA	0.15		0.22		0.22	
Output Fiber						
Core/clad diameter	220/242 μm		400/440 μm		600/660 μm	800/880 μm
NA	0.22		0.22		0.22	0.22
Power per Multimode Input	100 W		50 W		25W	
Total Power	700 W		650 W		475W	
Multimode Power Transfer						
Insertion Loss	0.5 dB		0.3 dB		0.5 dB	0.3 dB
Optical Return Loss - Pumps	45 dB					
Mechanical Specifications						
Dimensions	60 x 12 x 6.5 mm					
Fiber Pigtail Length Input/Output (1)	A= 1000 mm B= 2000 mm C= 3000 mm					

* Specified for NA=0.15 launch
(1) Pricing is dependant on fiber pigtail length

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*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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3SP Group
Strategic Partner