



Labs

MULTIMODE COMPONENTS

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 more information on this or other products and their availability, please contact our customer service at **514.748.4848** (Int'l) / **1.888.922.1044** (Canada & USA only) or via e-mail at info@itflabs.com

KEY FEATURES

- High Power Transfer Efficiency
- Wavelength Insensitive
- Custom Configurations Available
- RoHS Compliant

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SPECIFICATIONS

STANDARD CONFIGURATIONS

Product Code	MMC070110E1	MMC07012091	MMC13012091	MMC19012091*	MMC19012011	MMC190130J1*
Optical Specifications						
Pump Operating Wavelength	800-1000 nm					
Number of Multimode Inputs	7	7	13	19	19	19
Number of Signal Ports	0					
Number of Output Ports	1					
Pump Input Fiber Core/clad diameter NA	105/125 μ m 0.15	105/125 μ m 0.22			200/220 μ m 0.22	
Output Fiber Core/clad diameter NA	220/242 μ m 0.22	400/440 μ m 0.22			600/660 μ m 0.22	800/880 μ m 0.22
Power per Multimode Input Total Power	100 W 700 W	50 W 650 W		25W 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.

ORDERING INFORMATION

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



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