



MULTIMODE COMPONENTS

(6+1) x 1 HIGH POWER Pump and Signal Combiners

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

ITF Labs' Multimode Combiners offer efficient power transfer for high power applications like fiber lasers and fiber amplifiers, 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
- Preservation of Modal Content
- Wavelength Insensitive
- Custom Configurations Available
- RoHS Compliant

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SPECIFICATIONS

STANDARD CONFIGURATIONS

Product Code	MMC061129D1	MMC06112621	MMC06113621
Optical Specifications			
Signal Operating Wavelengths	1030-1080 nm		
Pump Operating Wavelengths	800-1000 nm		
Number of Multimode Inputs	6		
Number of Signal Ports	1		
Number of DCF Ports	1		
Pump Input Fiber Core/clad diameter NA	105/125 μm 0.22		200/220 μm 0.22
Signal Input Fiber Core/clad diameter NA	25/250 μm 0.11/0.46	20/400 μm 0.06/0.46	20/400 μm 0.06/0.46
Output Fiber Core/clad diameter NA	25/250 μm 0.11/0.46	20/400 μm 0.06/0.46	20/400 μm 0.06/0.46
Power per Pump Input	25 W	100 W	100 W
Total Power	150 W	600 W	600 W
Maximum Pump Insertion Loss	< 0.75 dB	< 0.3 dB	< 0.3 dB
Maximum Signal Insertion Loss	< 0.5 dB		
Optical Return Loss	35 dB	45 dB	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		

¹Pricing is dependant on fiber pigtail length.

PATENTED

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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