



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	MMC061122D1	MMC061128D1	MMC061129D1	MMC06112621	MMC06113621
Optical Specifications					
Signal Operating Wavelengths	1040-1080 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 μ m 0.22				200/220 μ m 0.22
Signal Input Fiber Core/clad diameter NA	HI 1060 6/125 μ m 0.14	10/125 μ m 0.08	25/250 μ m 0.11/0.46	20/400 μ m 0.06/0.46	
Output Fiber Core/clad diameter NA	25/250 μ m 0.11/0.46			20/400 μ m 0.06/0.46	
Power per Pump Input	100 W		25 W	100 W	
Total Power	600 W		150 W	600 W	
Maximum Pump Insertion Loss	< 0.3 dB		< 0.75 dB	< 0.3 dB	
Maximum Signal Insertion Loss	< 0.5 dB				
Optical Return Loss	45 dB		35 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				

(1) Pricing 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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