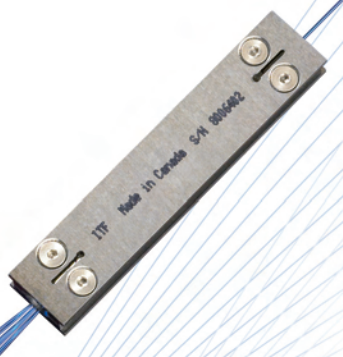
itf Labs

MULTIMODE COMPONENTS

(6+1) x 1 (Kw Class) 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.



BUILT-IN **MFA**

KEY FEATURES

- **High Power Transfer Efficiency**
- **Preservation of Modal Content**
- **Wavelength Insensitive**
- **Custom Configurations Available**
- **RoHS Compliant**

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

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SPECIFICATIONS

STANDARD CONFIGURATIONS

Product Code	MMC0611C3437	MMC0611C3553	PMC0611C3741
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	200/220 µm 0.22		
Signal Input Fiber Core/clad diameter NA	20/400 µm 0.06/0.46	10/125 µm 0.08/0.46	PM10/125 µm 0.08
Output Fiber Core/clad diameter NA	20/400 µm 0.06/0.46		PM20/400 µm 0.06/0.46
Power per Multimode Input Total Power	200 W 1200 W		
Maximum Pump Insertion Loss	< 0.1 dB		
Maximum Signal Insertion Loss	< 0.5 dB		
Optical Return Loss	45 dB		
Polarization Extinction Ratio	N/A		15 dB
Mechanical Specifications			
Dimensions	60 x 12 x 6.5 mm		
Fiber Pigtail Length Input/Output	1000 mm		

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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