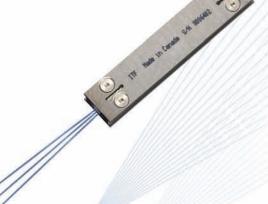


MULTIMODE COMPONENTS

2 μm 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

COMPONENTS

2 μm Pump and Signal Combiners

STANDARD CONFIGURATIONS					
Product Code	MMC0211C4057	PMC0211C3962	MMC0211C4069	MMC0611C4059	MMC0611C4058
Optical Specifications				•	
Signal Operating Wavelengths	1980-2020 nm				
Pump Operating Wavelengths	800-1000 nm				
Number of Multimode Inputs	2 6				6
Number of Signal Ports	1				
Number of DCF Ports	1				
Pump Input Fiber Core/clad diameter NA	105/125 μm 0.22				
Signal Input Fiber Core/clad diameter NA	10/125 μm 0.15/0.46	PM 10/130 μm 0.15/0.46	25/250 μm 0.11/0.46	25/250 μm 0.11/0.46	10/125 μm 0.15/0.46
Output Fiber Core/clad diameter NA	10/125 μm 0.15/0.46	PM 10/130 μm 0.15/0.46	25/250 μm 0.11/0.46	25/250 μm 0.11/0.46	25/250 μm 0.11/0.46
Power per Multimode Input/Total Power	50W/100W 25W/150			25W/150 W	100W/600W
Maximum Pump Insertion Loss	< 0.5 dB			< 0.75 dB	< 0.3 dB
Maximum Signal Insertion Loss	< 0.35 dB < 0.			.5 dB	< 0.7 dB
Optical Return Loss	35 dB			45 dB	
Polarization Extinction Ratio (1)	-	20 dB	-		<u></u>
Mechanical Specifications					
Length x Width x Height	60 x 12 x 6.5 mm				
Fiber Pigtail Length Input/Output	1000 mm				

(1) Measured at 1550 µm.

PATENT PENDING

ORDERING INFORMATION

ITF Labs can also develop custom multimode power combiners to meet a wide range of technical requirements. Also available: A range of products such as Fiber Bragg Gratings and Mode Field Adaptors for your 2 um laser applications.



ITF Labs

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