







KeyFeatures

High Power Transfer Efficiency

Preservation of Modal Content

Wavelength Insensitive

Custom Configurations Available

RoHS Compliant

Applications

Fiber Lasers

Fiber Amplifiers

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.

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For moreInfo

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2 µm Pump and Signal **Combiners**

SPECIFICATIONS* **STANDARD CONFIGURATIONS**

Product Code	MMC0211C4057	PMC0211C3962	MMC0211C4069	MMC0611C4059	MMC0611C405
Optical Specifications		1			
Signal Operating Wavelengths	1980-2020 nm				
Pump Operating Wavelengths	800-1000 nm				
Number of Multimode Inputs	2 6				б
Number of Signal Ports	1				
Number of DCF Ports	1				
Pump Input Fiber					
Core/clad diameter	105/125 μm				
NA	0.22				
Signal Input Fiber					
Core/clad diameter	10/125 μm	PM 10/130 μm	25/250 μm	25/250 μm	10/125 µm
NA	0.15/0.46	0.15/0.46	0.11/0.46	0.11/0.46	0.15/0.46
Output Fiber					
Core/clad diameter	10/125 μm	PM 10/130 μm	25/250 μm	25/250 μm	25/250 μm
NA	0.15/0.46	0.15/0.46	0.11/0.46	0.11/0.46	0.11/0.46
Power per Multimode Input/Total Power	50W/100W 25W/150W			25W/150W	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	-	-	-
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 *Specifications subject to change without notice.

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> **3SP**Group Strategic Partner



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