



## MULTIMODE COMPONENTS

## (6+1) x 1 PM 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](mailto:info@itflabs.com)

### KEY FEATURES

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

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### SPECIFICATIONS

#### STANDARD CONFIGURATIONS

Product Code	PMC06112631	PMC06113521
<b>Optical Specifications</b>		
Signal Operating Wavelengths	1030-1080 nm	1530-1580 nm
Pump Operating Wavelengths	800-1000 nm	800-1000 nm
Number of Multimode Inputs	6	6
Number of Signal Ports	1	1
Number of DCF Ports	1	1
Pump Input Fiber core/clad diameter NA	105 µm/125 µm 0.22	200 µm/220 µm 0.22
Signal Input Fiber core/clad diameter NA	PM 25 µm/250 µm 0.11/0.46	PM 20 µm/400 µm 0.06/0.46
Output Fiber core/clad diameter NA	PM 25 µm/250 µm 0.11/0.46	PM 20 µm/400 µm 0.06/0.46
Power per Pump Input Total Power	25 W 150 W	50 W 300 W
Maximum Pump Insertion Loss	< 0.75 dB	< 0.75 dB
Maximum Signal Insertion Loss	< 0.3 dB	< 0.2 dB
Optical Return Loss	40 dB	40 dB
Polarization Extinction Ratio	25 dB	25 dB
<b>Mechanical Specifications</b>		
Length x Width x Height	60 x 12 x 6.5 mm	60 x 12 x 6.5 mm
Fiber Pigtail Length Input/Output	> 750 mm	> 750 mm

PATENT PENDING

#### 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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