

Multimode Components

Key Features

High Power Transfer Efficiency

Preservation of Modal Content

Wavelength Insensitive

Custom Configurations Available

RoHS Compliant

Applications

Fiber Laser Power Amplifiers

(2 + 1) x 1 HIGH POWER Pump and Signal Combiners

3SPGroup' 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.

3SPGroup' 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 info

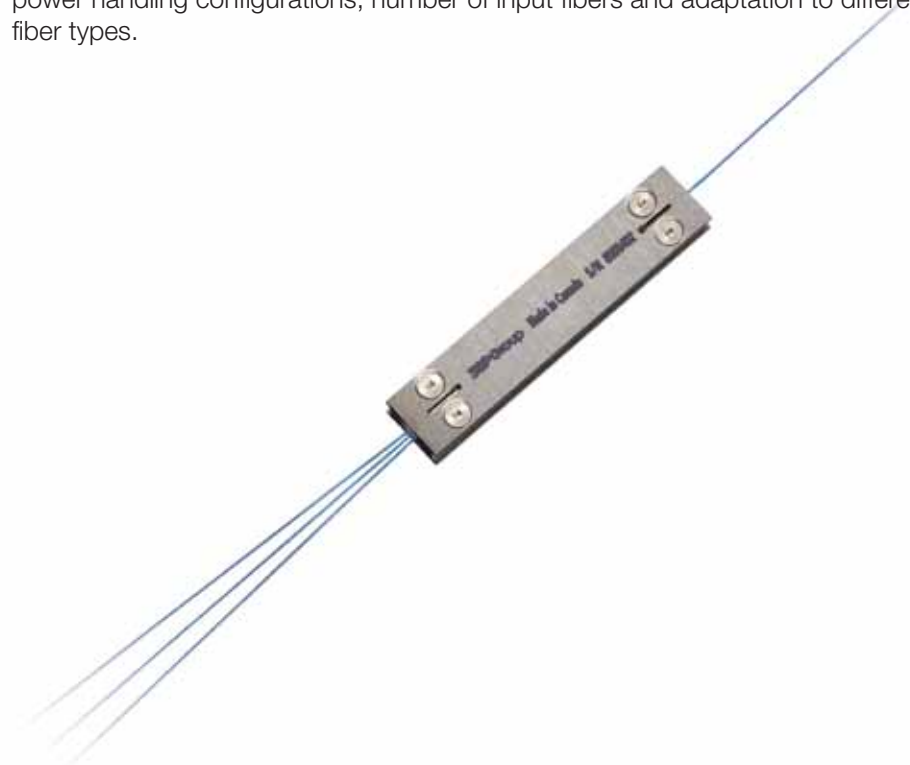
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(2 +1) x 1 HIGH POWER Pump and Signal Combiners

SPECIFICATIONS* STANDARD CONFIGURATIONS

Product Code	MMC02112DF1	MMC02112CC1	MMC02112BA1	MMC021129D1
Optical Specifications				
Signal Operating Wavelengths	1040-1080 nm			
Pump Operating Wavelengths	800-1000 nm			
Number of Multimode Inputs	2			
Number of Signal Ports	1			
Number of DCF Ports	1			
Pump Input Fiber Core/clad diameter NA	105/125 μ m 0.22			
Signal Input Fiber Core/clad diameter NA	5/130 μ m 0.14/0.46	10/125 μ m 0.08/0.46	15/130 μ m 0.08/0.46	25/250 μ m 0.11/0.46
Output Fiber Core/clad diameter NA	5/130 μ m 0.14/0.46	10/125 μ m 0.08/0.46	15/130 μ m 0.08/0.46	25/250 μ m 0.11/0.46
Power per Multimode Input	50W			
Total power	100W			
Maximum Pump Insertion Loss	< 0.5 dB			
Maximum Signal Insertion Loss	< 0.35 dB			< 0.5 dB
Optical Return Loss	35 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
*Specifications subject to change without notice.

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Please note: information in this document is typical and must be specifically confirmed in writing by your supplier before it becomes applicable to any order or contract. Information is subject to change without notice.
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ORDERING INFO

Please contact your Sales Manager. 3SPGroup can also develop custom products to meet a wide range of technical requirements.

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