



MULTIMODECOMPONENTS

(6+1)x1, (18+1)x1 and (24+1)x1

High Power Pump and Signal Combiners

For Co-Pumped Laser and Amplifier Designs

ITF Technologies' High Power Multimode Pump and Signal Combiners feature exceptional optical performance. These devices can be used to combine the power from several multimode laser diodes with a signal feed into a double clad fiber (DCF) or triple clad fiber (TCF). These combiners are designed to address industrial and research applications.

ITF Technologies' High Power Multimode Pump and Signal Combiners also offer extremely efficient pump power transmission for applications such as fiber lasers and fiber amplifiers, with optimal signal transmission quality when necessary or in lower cost solutions when the signal port is used for a visible tracker or monitoring. They are designed to meet a wide range of power handling needs and a large selection of input/output fiber types.



KEY FEATURES

High Power Transfer Efficiency

Preservation of Modal Content

Wavelength Insensitive

Custom Configurations Available

ROHS Compliant

APPLICATIONS

Fiber Lasers

Fiber Laser Seed Amplifiers

Fiber Laser Power Amplifiers

kW Class Fiber Lasers

Industrial & Research

FOR MORE INFO

Website: www.itftechnologies.com Email: info@itftechnologies.com



(6+1)x1, (12+1)x1, (18+1)x1 and (24+1)x1 High Power Pump and Signal Combiners

FOR CO-PUMPED LASER AND AMPLIFIER DESIGNS

CONFIGURATION	PUMP POWER HANDLING	OUTPUT DIAMETER	NOTES
(6+1)x1	Up to 100 W/port	250 um DCF	Standard operating bands: 1.0 um, 1.5 um. 2 um possible in certain cases.
	Up to 400 W/port	400 um DCF	
(12+1)x1	Up to 150 W/port	400 um DCF	When needed, signal optimized for fundamental mode transmission: Typical <0.5 dB fundamental mode loss
(18+1)x1	Up to 200 W/port	400 um DCF	Cost effective total core loss solutions also available PER value of PM components: >15 dB
(24+1)x1	Up to 140 W/port	400 um DCF	TEN Value of FWI components. > 10 dB
	Up to 270 W/port	600 um TCF	
PACKAGE DIMENSIONS	60.0 x 12.0 x 6.5 mm		DCF - Double-clad fiber TCF - Triple-clad fiber

ADDITIONAL INFORMATION

Compatible with most standard fibers.

Power handling is provided for general reference only.

Polarization-maintaining versions (PM) available on demand.

Custom designs and prototypes also available on demand.

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ORDERING INFO

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