



3x1, 4x1, 7x1,19x1 and 31x1 High Power Pump Combiners

For Co-Pumped Laser Designs and Direct Diode Applications

ITF Technologies' High Power Multimode Pump Combiners feature exceptional optical performance. These devices can be used to combine the power from several multimode laser diodes into a single clad or double clad fiber (DCF). These combiners are designed to address industrial, research and medical markets. They can meet a wide range of power handling configurations and a large selection of input/output fiber types.

ITF Technologies also offer "all glass" High Power Multimode Combiners for direct pumping with a maximum conservation of brightness for high power applications like direct diode material processing and "combiner tree" fiber laser designs.

KEY FEATURES

MULTIMODE COMPONENTS

High Power Transfer Efficiency Wavelength Insensitive Custom Configurations Available ROHS Compliant

APPLICATIONS

Fiber Lasers

Laser Diode Combining

kW Class Fiber Lasers

Industrial & Research

FOR MORE INFO

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



3x1, 4x1, 7x1, 19x1 and 31x1 High Power Pump Combiners

FOR CO-PUMPED LASER DESIGNS AND DIRECT DIODE APPLICATIONS

It's In The Fiber

MULTIMODE COMPONENTS

Double Clad Fiber Output

CONFIGURATION	PUMP POWER HANDLING	OUTPUT DIAMETER	NOTES
3x1	Up to 100 W/port	125 um DCF	Operating wavelength : 790- 1000 nm
4x1	Up to 100 W/port	125 um DCF	
7x1	Up to 150 W/port	250 um DCF	
	Up to 400 W/port	400 um DCF	
19x1	Up to 60 W/port	250 um DCF	
	Up to 140 W/port	400 um DCF	
PACKAGE DIMENSIONS	60.0 x 12.0 x 6.5 mm		DCF - Double-clad fiber

Direct Pumping Combiners - High Brightness Output

CONFIGURATION	PUMP POWER HANDLING	OUTPUT DIAMETER	NOTES
3x1	Up to 100 W/port	220 um	Operating wavelength : 790- 1000 nm
4x1	Up to 100 W/port	220 um	
	Up to 50 W/port	220 um	
7x1	Up to 100 W/port	440 um	
	Up to 400 W/port	660 um	
31x1	Up to 140 W/port	660 um	
PACKAGE DIMENSIONS	60.0 x 12.0 x 6.5 mm		Typical output fiber NA: 0.22

ADDITIONAL INFORMATION

Compatible with most standard fibers. Power handling is provided for general reference only. Custom designs and prototypes also available on demand. Last revised: January 2023

ORDERING INFO

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