

(6+1)x1 and (18+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 offers very efficient pump power transmission in applications such as fiber lasers and fiber amplifiers, with the best signal quality transmission when necessary or in lower cost solutions when the central port is for a visible tracker. They are designed to meet a wide range of power handling configurations 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

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

FOR CO-PUMPED LASER AND AMPLIFIER DESIGNS

(6 + 1)x1 - Standard signal operating wavelength range: 1040-1080 nm

PUMP FIBER	SIGNAL FIBER	OUTPUT FIBER	POWER HANDLING (PUMPS)	PRODUCT CODE
105/125 0.22	HI1060	25/250 um NA=0.06/0.46	100 W/port	√
105/125 0.22	PM980	PM 25/250 um NA=0.06/0.46	100 W/port	PMC06112251
105/125 0.22	HI1060	25/250 um NA=0.11/0.46	100 W/port	MMC061122D1
105/125 0.22	PM980	PM 25/250 um NA=0.11/0.46	100 W/port	PMC06112231
105/125 0.22	HI1060	20/400 um NA=0.06/0.46	100 W/port	MMC06112221
105/125 0.22	PM980	PM 20/400 um NA=0.06/0.46	100 W/port	PMC06112221
200/220 0.22	HI1060	20/400 um NA=0.06/0.46	200 W/port	MMC0611C6582
200/220 0.22	PM980	PM 20/400 um NA=0.06/0.46	200 W/port	√
220/242 0.22	HI1060	20/400 um NA=0.06/0.46	200 W/port	√
220/242 0.22	PM980	PM 20/400 um NA=0.06/0.46	200 W/port	√
105/125 0.22	10/125 um NA=0.08/0.46	25/250 um NA=0.06/0.46	100 W/port	MMC06112CH1
105/125 0.22	PM 10/125 um NA=0.08/0.46	PM 25/250 um NA=0.06/0.46	100 W/port	PMC06112A51
105/125 0.22	10/125 um NA=0.08/0.46	25/250 um NA=0.11/0.46	100 W/port	MMC061128D1
105/125 0.22	PM 10/125 um NA=0.08/0.46	PM 25/250 um NA=0.11/0.46	100 W/port	PMC06112A31
105/125 0.22	10/125 um NA=0.08/0.46	20/400 um NA=0.06/0.46	100 W/port	MMC06112821
105/125 0.22	PM 10/125 um NA=0.08/0.46	PM 20/400 um NA=0.06/0.46	100 W/port	PMC06112A21
200/220 0.22	10/125 um NA=0.08/0.46	20/400 um NA=0.06/0.46	200 W/port	MMC0611C3553
200/220 0.22	PM 10/125 um NA=0.08/0.46	PM 20/400 um NA=0.06/0.46	200 W/port	PMC0611C3741
220/242 0.22	10/125 um NA=0.08/0.46	20/400 um NA=0.06/0.46	200 W/port	MMC0611C7293
220/242 0.22	PM 10/125 um NA=0.08/0.46	PM 20/400 um NA=0.06/0.46	200 W/port	PMC0611C6096
105/125 0.22	20/400 um NA=0.06/0.46	20/400 um NA=0.06/0.46	100 W/port	MMC06112621
200/220 0.22	20/400 um NA=0.06/0.46	20/400 um NA=0.06/0.46	200 W/port	MMC0611C3437
220/242 0.22	20/400 um NA=0.06/0.46	20/400 um NA=0.06/0.46	200 W/port	MMC0611C4559

(6 + 1)x1 - Standard signal operating wavelength range: 1530-1570 nm

PUMP FIBER	SIGNAL FIBER	OUTPUT FIBER	POWER HANDLING (PUMPS)	PRODUCT CODE
105/125 0.22	SMF28	25/300 um NA=0.09/0.46	100 W/port	MMC0611C4044
105/125 0.22	PM 1500	PM 25/300 um NA=0.09/0.46	100 W/port	PMC0611C3360

(6 + 1)x1 - Standard signal operating wavelength range: 1980-2020 nm

PUMP FIBER	SIGNAL FIBER	OUTPUT FIBER	POWER HANDLING (PUMPS)	PRODUCT CODE
105/125 0.22	10/125 um NA=0.15/0.46	25/250 um NA=0.11/0.46	100 W/port	MMC0611C4058
105/125 0.22	10/125 um NA=0.15/0.46	25/400 um NA=0.11/0.46	100 W/port	MMC0611C5652
105/125 0.22	PM 10/130 um NA=0.15/0.46	PM 25/400 um NA=0.11/0.46	100 W/port	PMC0611C6088

(18 + 1)x1 - Standard signal operating wavelength range: 1040-1080 nm

PUMP FIBER	SIGNAL FIBER	OUTPUT FIBER	POWER HANDLING (PUMPS)	PRODUCT CODE
106.5/125 0.22	HI1060	20/400 um NA=0.06/0.46	140 W/port	MMC1811C8430
106.5/125 0.22	HI1060	25/400 um NA=0.06/0.46	140 W/port	MMC1811C9918
106.5/125 0.22	10/125 um NA=0.08/0.46	20/400 um NA=0.06/0.46	140 W/port	MMC1811C9262
106.5/125 0.22	20/400 um NA=0.06/0.46	20/400 um NA=0.06/0.46	140 W/port	MMC1811C9751

√: Product available - product code not yet defined

PACKAGE DIMENSIONS

High Power: 60.0 x 12.0 x 6.5 mm

Signal optimized for fundamental mode transmission:
Typical <0.5 dB fundamental mode loss

Cost effective total core loss solution also available

PER value of PM components: > 15 dB

Typical power handling presented
**Custom designs and prototypes also available;
including 135/155um pump fibers**

ORDERING INFO

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