itf Technologies
Member of O-Net Group

One Name in Beam Quality

MULTIMODE
COMPONENTS

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

Optimized for Counter-Pumped Laser 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). 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. 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
- Can also be used in a co-pump configuration

APPLICATIONS

- Fiber Lasers
- Fiber Laser Seed Amplifiers
- Fiber Laser Power Amplifiers
- Industrial & Research

FOR MORE INFO

Please contact us at:
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or via e-mail at: **info@itftechnologies**

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OPTIMIZED FOR COUNTER-PUMPED LASER DESIGNS

Standard signal operating wavelength range: 1040-1080 nm

PUMP FIBER	SIGNAL AND OUTPUT FIBER	POWER HANDLING (PUMPS)	PRODUCT CODE
105/125 0.22	25/250 um NA=0.06/0.46	50 W/port	MMC0611C5485
105/125 0.22	PM 25/250 um NA=0.06/0.46	50 W/port	PMC0611C7401
105/125 0.22	25/250 um NA=0.11/0.46	50 W/port	MMC061129D1
105/125 0.22	PM 25/250 um NA=0.11/0.46	50 W/port	PMC06112631
105/125 0.22	20/400 um NA=0.06/0.46	up to 100 W/port	MMC0611C8428
105/125 0.22	PM 20/400 um NA=0.06/0.46	up to 100 W/port	PMC06112521
105/125 0.22	25/400 um NA=0.06/0.46	up to 100 W/port	MMC0611C7385
105/125 0.22	PM 25/400 um NA=0.06/0.46	up to 100 W/port	PMC0611C5797
135/155 0.22	20/400 um NA=0.06/0.46	up to 270 W/port	MMC0611C11485
135/155 0.22	25/400 um NA=0.06/0.46	up to 270 W/port	MMC0611C11487

Standard signal operating wavelength range: 1530-1570 nm

PUMP FIBER	SIGNAL AND OUTPUT FIBER	POWER HANDLING (PUMPS)	PRODUCT CODE
105/125 0.22	25/300 um NA=0.09/0.46	50 W/port	MMC0611C4828
105/125 0.22	PM 25/300 um NA=0.09/0.46	50 W/port	PMC0611C3890

√: 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

Maximum pump insertion loss per port: 0.5 dB (typical)
Optical return loss: > 35 dB
PER value of PM components: >20 dB

Typical power handling presented
Custom designs and prototypes also available

ORDERING INFO

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O-Net Communications