

Pump/Combiner

(N+1)×1 High Power Pump and Signal Combiners

(N+1)×1 Multimode Pump and Signal Combiners can be used for high power fiber lasers and fiber amplifiers. These devices can be used to combine several pump lasers and couple that power with a seed signal. Manufactured using our proprietary methods, the product series includes (6+1)×1, (18+1)×1, (36+1)×1 and other reasonable configurations are available.

Features

- High Coupling Efficiency
- Stable and Reliable
- Custom Configurations Available



Specifications

Parameter	Specification					
	(6+1)×1		(18+1)×1		(36+1)×1	
Port Configuration	(6+1)×1		(18+1)×1		(36+1)×1	
Pump Wavelength	800 nm ~ 1000 nm					
Signal Wavelength	1030 nm ~ 1080 nm or 1450 nm ~ 1600 nm					
Signal Input Fiber (Note 3)	x/125		x/125 or x/250 or 20/400		x/125 x/125	
Pump Fiber	105/125 0.15NA/0.22NA		105/125 0.15NA/0.22NA or 200/220 0.22NA		105/125 0.15NA/0.22NA	
Output Fiber (Note 3)	y/125	y/250	20/400	y/250	20/400	y/400
Pump Efficiency (Note 4)	>90%	>93%	>95%	>93%	>95%	>93%
Signal Insertion Loss	<0.7 dB	<0.7 dB	<0.7 dB	<0.7 dB	<0.7 dB	
Total Power Handling	300W	600W	1800W	2500W	2500W	
Return Loss	>45 dB					
Pigtail	Standard 1m or custom					
Operating Temperature	0~75°C					
Storage Temperature	-40~85°C					

Note 1: Values are referenced without connectors.

Note 2: Other package dimensions and optical performances available by request.

Note 3: x, y specifies fiber core size.

Note 4: Fiber size and type dependent.

Ordering Information

P	C	-	-	-	-	-	-	-	-	-	-	-	-	-
Port Configuration	Wavelength	Pump Fiber	Signal Fiber	Output Fiber	Package Size(mm)	Special Code								
6: (6+1)×1	A: 1060nm	18: MM-S105/125-15A	04: HI1060 NA:0.14	47: Passive-25/250DC NA:0.07/0.46	3: 75x12x8									
C: (18+1)×1	B: 1550nm	19: MM-S105/125-22A	26: SCF10/125 NA:0.08	49: LMA-GDF-20/400-M NA:0.06/0.46	8: 105x15x8									
G: (36+1)×1		20: MM-S200/220-22A	29: DCF-UN-10/125DC	51: LMA-GDF-30/250-M NA:0.06/0.46	C: 80x14x10									

Note: These are our most popular configurations. Contact Lightel Sales for custom port counts or alternative fibers.