

Reverse Pump Combiner

(N+1)×1 High Power Reverse Pump Combiner

High power reverse pump combiners (also called counter pump combiners) are specifically designed for especially high power fiber lasers. These combiners are usually mated with the forward optical path to form a bi-directional pump structure to obtain higher amplification efficiency and higher output power.

Features

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



Specifications

Parameter	Specification		
	(2+1)x1	(6+1)x1	(9+1)x1
Port Configuration	(2+1)x1	(6+1)x1	(9+1)x1
Pump Wavelength	800 nm ~ 1000 nm		
Signal Wavelength	1030 nm ~ 1080 nm or 1450 nm ~ 1600nm		
Signal Input Fiber (Note 3)	x/125 or x/250 or x/400		x/250 or x/400
Pump Fiber	105/125 0.15NA/0.22NA or 200/220 0.22NA		105/125 0.15NA/0.22NA
Output Fiber (Note 3)	y/125 or y/250 or y/400		y/250 or y/400
Pump Efficiency (Note 4)	>90%		>93%
Signal Insertion Loss	<0.5 dB		<0.5dB
Total Power Handling	300W	1000W	1000W
Total Reverse Power Handling	300W	300W	300W
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 core size.

Note 4: Fiber size and type dependent.

Ordering Information

R	P	C	T	T	T	T	T	T	T	
Port Configuration	Wavelength	Pump Fiber	Signal Fiber	Output Fiber	Package Size(mm)	Special Code				
2: (2+1)x1	A: 1060nm	18: MM-S105/125-15A	04: HI1060 NA:0.14	41: LMA-GDF-20/130-M NA:0.08/0.46	1: D4.0xL60 SST					
6: (6+1)x1	B: 1550nm	19: MM-S105/125-22A	29: DCF-UN-10/125DC	47: Passive-25/250DC NA:0.07/0.46	3: 75x12x8					
9: (9+1)x1		20: MM-S200/220-22A	30: 10/125DC NA:0.08/0.46	49: LMA-GDF-20/400-M NA:0.06/0.46	8: 105x15x8					
			72: DCF-UN-8/105/125-14	72: DCF-UN-8/105/125-14	G: 100x28x12.6					

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