

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 | | |
|------------------------------|---|---------|-----------------------|
| 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 | - | - | - | - | - | - | - | - | - | - | - | - |
|--------------------|------------|---------------------|---------------------------|-----------------------------------|------------------|--------------|---|---|---|---|---|---|---|---|
| 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.