

## 2000nm Multimode Pump and Signal Combiner

### FEATURES

- High Input Optical Power
- Multiple Input Ports
- High Reliability and Stability
- Low Profile Packaging
- High Coupling Ratio

### APPLICATIONS

- Fiber Laser
- Optical Amplifier
- High Power Laser
- Laser Source
- Labs



### SPECIFICATIONS

Parameter	Unit	Value		
Pump Wavelength Range	nm	793, 808, 830, 915, 950, 975, 980, 1550		
Signal Wavelength Range	nm	1900, 1950, 2000, 2050		
Pump Input Fiber	-	105/125um NA=0.12(D), NA=0.15(B) or NA=0.22(A) 106.5/125um NA=0.22(J), 200/220um, NA=0.22(C), 220/242um NA=0.22(C1), 400/440um NA=0.22(U) or specified by customer		
Signal Fiber or Common Fiber	-	SMF-28 Fiber(S), SM1950 Fiber(V), 10/130um NA=0.15(O), 25/250um NA=0.09(R), 25/400um NA=0.09(R4), or specified by customer		
Configuration	-	(1+1)x1, (2+1)x1	(4+1)x1, (6+1)x1	(18+1)X1
Pump Direction	-	Forward Pump or Backward Pump		
Signal Insertion Loss	dB	≤0.5	≤0.7	≤0.8
Max. Pump Power Per Port (CW)	W	25, 50, 100, 200, 300, 400, 500		
Max. Input Signal Power (CW)	W	10, 50, 100, 200, 500, 1000, 2000		
Pump Efficiency	%	≥90%		
Signal Isolation (Backward Pump)	dB	≥20		
Pump Return Loss	dB	≥30		
Operating Temperature	°C	0~50		
Storage Temperature	°C	-40~85		
Package Dimension	mm	A: 65 <sup>L</sup> x12 <sup>W</sup> x7.5 <sup>H</sup> , B: 100 <sup>L</sup> x12 <sup>W</sup> x10 <sup>H</sup> C: 70 <sup>L</sup> x12 <sup>W</sup> x8 <sup>H</sup> , D: 100 <sup>L</sup> x15 <sup>W</sup> x10 <sup>H</sup>		

**Note:** 1. Specifications are for device without connectors; Specifications may change without notice.

2. To add connectors, IL is 0.3dB higher, RL is 10dB lower.

3. Specifications are tested at low order modes.

4. Only guarantee 1W continuous wave (CW) power thru testing for connectors added.

5. Devices for higher optical power or with other type fiber or consigned fiber are also available.

6. Package size may be different for different fiber type, optical power and configuration.

### ORDERING INFORMATION (PN)

FMPS-NN NN - C(N)			C(N)	C(N)	N	C	-C	NN	-(NNN) - C	NN	-C	
Pump WL	Signal WL	Pump Fiber	Signal Fiber	Common Fiber	Configuration	Pump	Package	Pump Power	Signal Power	Fiber Sleeve	Fiber Length	Connector
79-793nm	90-1900nm	A=105/125 NA=0.22	S=SMF-28 Fiber	O=10/130 DC Fiber	1-(1+1)x1	Direction	A-A Type	25-25W	100-100W	B= Bare Fiber	05-0.5m	N=No Connector
91-915nm	19-1950nm	B=105/125 NA=0.15	V=SM1950 Fiber	R=25/250 DC Fiber	2-(2+1)x1	F=Forward	B-B Type	50-50W	500-500W		10-1.0m	
97-975nm	20-2000nm	C1=220/242 NA=0.22	O=10/130 DC Fiber	R4=25/400 DC Fiber	6-(6+1)x1	B=Backward	C=C Type	100-100W	1000-1000W		15-1.5m	
15-1550nm	25-2050nm	J=106.5/125 NA=0.22	R=25/250 DC Fiber		18-(18+1)x1		D=D Type	300-300W	Blank for 10W		20-2.0m	
				R4=25/400 DC Fiber								