

## 2000nm Multimode Pump and Signal PM Combiner for Pulse power

### 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	-	PM1550 Fiber(S), PM1950 Fiber(V), 10/130um NA=0.15(O), 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
Signal Extinction Ratio	dB	≥16		
Max. Pump Power Per Port	W	25, 50, 100, 200, 300, 400, 500		
Max. Input Signal Power	W	10, 50, 100, 200, 500, 1000, 2000		
Max. Peak Power for Pulse	kW	0.1, 1, 2, 3, 5, 10, 15, 20, 50, 100		
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> x8.6 <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:**
- Specifications are for device without connectors; Specifications may change without notice.
  - To add connectors, IL is 0.3dB higher, RL is 10dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.
  - Specifications are tested at low order modes.
  - Only guarantee 1W continuous wave (CW) power thru testing for connectors added.
  - Devices for higher optical power or with other type fiber or consigned fiber are also available.
  - Package size may be different for different fiber type, optical power and configuration.

### ORDERING INFORMATION (PN)

FMSP-NNNN- C(N)			C(N)	C(N)	N	C	- C	NN	- (NNN)	-PNN	-C	NN	-C
Pump WL	Signal WL	Pump Fiber	Signal Fiber	Common Fiber	Configuration	Pump	Package	Pump Power	Signal Power	Peak Power	Fiber Sleeve	Fiber Length	Connector
79~793nm	90~1900nm	A=105/125 NA=0.22	S=PM1550 Fiber	O=10/130PMDC Fiber	1-(1+1)x1	Direction	A=A Type	25~25W	100~100W	01=100W	B= Bare Fiber	05~0.5m	N=No Connector
91~915nm	19~1950nm	B=105/125 NA=0.15	V=PM1950 Fiber	R4=25/400PMDC Fiber	2-(2+1)x1	F=Forward	B=B Type	50~50W	500~500W	1=1kW		10~1.0m	
97~975nm	20~2000nm	C1=220/242 NA=0.22	O=10/130PMDC Fiber		6-(6+1)x1	B=Backward	C=C Type	100~100W	1000~1000W	10=10kW		15~1.5m	
15~1550nm	25~2050nm	J=106.5/125 NA=0.22	R4=25/400PMDC Fiber		18-(18+1)x1		D=D Type	300~300W	Blank for 10W	100=100kW		20~2.0m	

