

## 1020~1150nm Multimode Pump and Signal PM 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	915, 950, 975, 980		
Signal Wavelength Range	nm	1020, 1030, 1040, 1053, 1064, 1070, 1080, 1092, 1103, 1120, 1150		
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	-	PM980 Fiber(H), PM1060L Fiber(E), 6/125um NA=0.14(N), 5/130um NA=0.12(N1), 10/125um NA=0.075(O), 15/130um NA=0.075(W), 20/130um NA=0.075(Q), 25/250um NA=0.065(R), 25/400um NA=0.065(R1), 30/250um NA=0.06(R6), 30/400um NA=0.06(R3) 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 (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:**
- Specifications are for device without connectors; Specifications may change without notice.
  - To add connectors, IL is 0.5dB 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-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
91-915nm	03-1030nm	A=105/125 NA=0.22	H-PM980 Fiber	O=10/125PMDC Fiber	1-(1+1)x1	Direction	A-A Type	25-25W	100-100W	B= Bare Fiber	05=0.5m	N=No Connector
95-950nm	06-1064nm	B=105/125 NA=0.15	N=6/125PMDC Fiber	Q=20/125PMDC Fiber	2-(2+1)x1	F=Forward	B=B Type	50-50W	500-500W		10=1.0m	
97-975nm	09-1092nm	C1=220/242 NA=0.22	O=10/125PMDC Fiber	R=25/250PMDC Fiber	6-(6+1)x1	B=Backward	C=C Type	100-100W	1000-1000W		15=1.5m	
98-980nm	12-1120nm	J=106.5/125 NA=0.22	Q=20/125PMDC Fiber	N1=5/130PMDC Fiber	18-(18+1)x1		D=D Type	300-300W	Blank for 10W		20=2.0m	
				R1=25/400PMDC Fiber								

