

2000nm 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	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 (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 ^L x12 ^W x8.6 ^H , B: 100 ^L x12 ^W x10 ^H		
		C: 70 ^L x12 ^W x8 ^H , D: 100 ^L x15 ^W x10 ^H		

- 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-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-PM1550 Fiber	O-10/130PMDC 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-PM1950 Fiber	R4-25/400PMDC 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-10/130PMDC 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	R4-25/400PMDC Fiber		18-(18+1)x1		D-D Type	300-300W	Blank for 10W		20-2.0m	