

1020~1120nm Multimode Pump and Signal 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	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	-	HI1060 Fiber(H), 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
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 ^L x12 ^W x7.5 ^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 0.5dB higher, RL is 10dB lower.
 - 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)

FMPS-NNNN- C(N)	C(N)	C(N)	N	C	-C	NN	-(NNN)	-NN	-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
91~915nm	03~1030nm	A=105/125 NA=0.22	H=HI1060 Fiber	O=10/125 DC Fiber	1=(1+1)x1	Direction	A=A Type	25~25W	100~100W	01~100W	B= Bare Fiber	05~0.5m	H=No Connector
95~950nm	06~1064nm	B=105/125 NA=0.15	N=6/125 DC Fiber	Q=20/125 DC Fiber	2=(2+1)x1	F=Forward	B=B Type	50~50W	500~500W	1~1kW		10~1.0m	
97~975nm	09~1092nm	C1=220/242 NA=0.22	O=10/125 DC Fiber	R=25/250 DC Fiber	6=(6+1)x1	B=Backward	C=C Type	100~100W	1000~1000W	10~10kW		15~1.5m	
98~980nm	12~1120nm	J=106.5/125 NA=0.22	Q=20/125 DC Fiber	N1=5/130 DC Fiber	18=(18+1)x1		D=D Type	300~300W	Blank for 10W	100~100kW		20~2.0m	

R1=25/400 DC Fiber

