

C/L Band 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	915, 950, 975, 980, 1480		
Signal Wavelength Range	nm	1530~1580, 1570~1610		
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 & Common Fiber	-	PM1550 Fiber(S), 8/125um NA=0.12(M), 6/125um NA=0.18(M1), 10/125um NA=0.075(O), 12/130um NA=0.2(T), 15/130um NA=0.075(W), 20/130um NA=0.075(Q), 25/250um NA=0.065(R), 25/300um NA=0.09(G), 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	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 0.3dB 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)	-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	15-1550nm	A=105/125 NA=0.22	S=PM1550 Fiber	O=10/125PMDC Fiber	1-(1+1)x1	Direction	A=A Type	25-25W	100-100W	01-100W	B= Bare Fiber	05-0.5m	N=No Connector
95-950nm	59-1590nm	B=105/125 NA=0.15	M=8/125PMDC Fiber	Q=20/130PMDC Fiber	2-(2+1)x1	F=Forward	B=B Type	50-50W	500-500W	1-1kW		10-1.0m	
98-980nm		C1=220/242 NA=0.22	O=10/125PMDC Fiber	G=25/300PMDC Fiber	6-(6+1)x1	B=Backward	C=C Type	100-100W	1000-1000W	10-10kW		15-1.5m	
14-1480nm		J=106.5/125 NA=0.22	R=25/250PMDC Fiber	R1=25/400PMDC Fiber	18-(18+1)x1	D=D Type		300-300W	Blank for 10W	100-100kW		20-2.0m	
			R1=25/400PMDC Fiber	M1=6/125PMDC Fiber									

