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: $65^{L}x12^{W}x8.6^{H}$, B: $100^{L}x12^{W}x10^{H}$		
		C: $70^{L}x12^{W}x8^{H}$, D: $100^{L}x15^{W}x10^{H}$		

Note: 1. Specifications are for device without connectors; Specifications may change without notice.
2. To add connectors, IL is 0.3dB higher, RL is 10dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.
3. Specifications are tested at low order modes.
4. Only guarantee 1W continuous wave (CW) power thru testing for connectors added.
5. Devices for higher optical power or with other type fiber or consigned fiber are also available.
6. 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 Direction*	*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		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* for10W	100= 100kW		20=2.0m	
			R1=25/400PMDC Fiber	M1=6/125PMDC Fiber									