

2000nm 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 | 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 | 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 |
| 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 | 01=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 | 1=1kW | | 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 | 10=10kW | | 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 | 100=100kW | | 20=2.0m | |

