

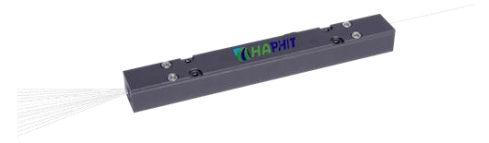
C/L Band Multimode Pump and Signal Combiner for Pulse Power

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, 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 | - | SMF-28 Fiber(S), 8/125um NA=0.12(M), 6/125um NA=0.18(M1), 10/130um 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 |
| 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.
 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 configurations.

ORDERING INFORMATION (PN)

| FMPS-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 | Package | Pump Power | Signal Power | Peak Power | Fiber Sleeve | Fiber Length | Connector |
| 91=915nm | 15=1550nm | A=105/125 NA=0.22 | S=SMF-28Fiber | O=10/130 DC 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=8/125 DC Fiber | Q=20/130 DC 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=10/130 DC Fiber | G=25/300 DC 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=25/250 DC Fiber | R1=25/400 DC Fiber | 18=(18+1)x1 | D=D Type | | 300=300W | Blank for 10W | 100= 100kW | | 20=2.0m | |
| | | | R1=25/400 DC Fiber | M1=6/125 DC Fiber | | | | | | | | | |

