

## 760-850/2000nm Fused PM WDM Coupler for Pulse Power

### FEATURES

- ▣ Low Excess Loss
- ▣ Variety Coupling Ratio
- ▣ Epoxy-Free Optical Path
- ▣ High Reliability and Stability
- ▣ Low Profile Packaging

### APPLICATIONS

- ▣ LAN WAN Systems
- ▣ Signal Monitoring
- ▣ Network Monitoring
- ▣ CATV
- ▣ Test Equipments



### SPECIFICATIONS

| Parameter                    | Unit                       | Value   |  |
|------------------------------|----------------------------|---|--|
| Wavelength Range Channel 1   | nm                         | 760±10, 780±10, 793±10,<br>808±10, 830±10, 850±10             |  |
| Wavelength Range Channel 2   | nm                         | 1900±10, 1950±20, 2000±20, 2050±10                            |  |
| Insertion Loss               | dB                         | ≤1.0  | ≤1.5   |
| Isolation                    | dB                         | ≥13   |  |
| Extinction Ratio (Channel 2) | dB                         | ≥18   |  |
| Optical Return Loss          | dB                         | ≥40   |  |
| Directivity                  | dB                         | ≥50   |  |
| Fiber Type                   | -                          | PM980 Fiber (M) or<br>PM1550 Panda Fiber                      | PM850 Fiber(H) or PM780-HP Fiber(7)<br>PM1950 Fiber (V)<br>10/130um PMDC Fiber (O) NA=0.15 |
| Fiber Tensile Load           | N                          | 5   |  |
| Maximum Average Power        | W                          | 0.3, 0.5, 1, 2, 3, 5, 10, 15, 20, 25, 30, 40, 50, 60, 80, 100 |  |
| Max. Peak Power for Pulse    | kW                         | 0.1, 1, 2, 3, 5, 10, 15, 20                                   |  |
| Operating Temperature        | °C                         | 0~50  |  |
| Storage Temperature          | °C                         | -40~85  |  |
| Package Dimension            | Stainless Steel Tube (SST) | mm  | Φ3.0x <sup>L</sup> 60 for Bare Fiber   |
|                              | Metal Box                  |   | Φ3.0x <sup>L</sup> 76 for 900um Loose Tube   |
|                              |                            |   | <sup>L</sup> 120x <sup>W</sup> 12x <sup>H</sup> 10 for 2mm/3mm Cable                       |

- Note:**
1. Specifications are for device without connectors; Specifications may change without notice.
  2. To add connectors, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.
  3. Only guarantee 1W continuous wave (CW) power thru testing for connectors added.
  4. 760~850nm transmits as low order modes in signal fiber.
  5. Devices for higher optical power or with other type fiber or consigned fiber are also available; Devices can only work in the core of Double Cladding (DC) Fiber, Cladding Power must be stripped before connecting the device.
  6. Package size may be different for different optical power and fiber type.

### ORDERING INFORMATION (PN)

| FPCD- NN           | NN                 | - N           | (C)            | (C)                  | (C)           | -HNN       | PNN           | -(C)                   | C             | NN           | -CC/CCC                 |
|--------------------|--------------------|---------------|----------------|----------------------|---------------|------------|---------------|------------------------|---------------|--------------|-------------------------|
| Center Wavelength1 | Center Wavelength2 | Configuration | Mode           | Fiber(A.1)           | Average Power | Peak Power | Package       | Fiber (Com.&A.2)       | Fiber Sleeve  | Fiber Length | Connector Type          |
| 78-780nm           | 90-1900nm          | 1- 1x2 Type   | M= Mux         | S= Corr. SM Fiber    | 03- 300mW     | 01- 100W   | M= Metal Box  | V= PM1950 Fiber        | B= Bare Fiber | 05-0.5m      | N= Without Connector    |
| 79-793nm           | 19-1950nm          | 2- 2x2 Type   | D= eemux       | 7= PM780-HP Fiber    | 5-5W          | 5-5kW      | Blank for SST | M= PM980 Fiber         | L= Loose Tube | 10-1.0m      | FC/APC=FC/APC Connector |
| 20-2000nm          | 83-830nm           |               | Blank for Both | P= PM1550 Fiber      | 10-10W        | 10-10kW    |               | O= 10/130PMD Fiber     | 2= 2mm Cable  | 15-1.5m      | LC/PC=LC/PC Connector   |
| 25-2050nm          | 85-850nm           |               |                | Blank for Same Fiber | 30- 30W       | 20- 20kW   |               | Blank for PM1550 Fiber | 3= 3mm Cable  | 20-2.0m      | SC/UPC=SC/UPC Connector |