

## 980/1064~1150nm High Power Fused WDM Coupler

### 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  |  |
|----------------------------|----------------------------|--|--|
| Center Wavelength 1        | nm                         | 976, 980   |  |
| Center Wavelength 2        | nm                         | 1064, 1070, 1080, 1092, 1120, 1150   |  |
| Bandwidth                  | nm                         | +/-5   |  |
| Insertion Loss             | dB                         | ≤0.9   |  |
| Isolation                  | dB                         | ≥15  |  |
| Optical Return Loss        | dB                         | ≥40  |  |
| Directivity                | dB                         | ≥50  |  |
| Fiber Type                 | -                          | HI1060 Fiber or HI1060 Flex Fiber (F)<br>10/125um SC Fiber (E) or 10/125um DC Fiber (O) NA=0.075 |  |
| Fiber Tensile Load         | N                          | 5  |  |
| Maximum Optical Power (CW) | W                          | 1, 2, 3, 5, 10, 15, 20, 25, 30, 50, 80, 100, 150, 200  |  |
| 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 |
|                            |                            |  |  |

- Note:**
1. Specifications are for device without connectors; Specifications may change without notice.
  2. To add connectors, IL is 0.5dB higher, RL is 5dB lower.
  3. Only guarantee 1W continuous wave (CW) power thru testing for connectors added.
  4. 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.
  5. Package size may be different for different optical power and fiber type.

### ORDERING INFORMATION (PN)

| FCLD-NN     | NN          | -             | N              | (C)                  | (C)           | -HPNN         | -(C)                   | (C)           | C            | NN                      | -CC/CCC |
|-------------|-------------|---------------|----------------|----------------------|---------------|---------------|------------------------|---------------|--------------|-------------------------|---------|
| Wavelength1 | Wavelength2 | Configuration | Mode           | Fiber(λ1)            | Optical Power | Package       | Fiber (Com&λ2)         | Fiber Sleeve  | Fiber Length | Connector Type          |         |
| 98-980nm    | 06-1064nm   | 1- 1x2 Type   | M- Mux         | I-HI1060 Fiber       | 1- 1W         | M-Metal Box   | F- HI1060 Flex Fiber   | B- Bare Fiber | 05-0.5m      | N-Without Connector     |         |
| 97-976nm    | 08-1080nm   | 2- 2x2 Type   | D- Demux       | F- HI1060 Flex Fiber | 5-5W          | Blank for SST | E- 10/125um SC Fiber   | L- Loose Tube | 10-1.0m      | FC/APC=FC/APC Connector |         |
| 12-1120nm   | 98-980nm    |               | Blank for Both | Blank for Same Fiber | 10-10W        |               | O- 10/125um DC Fiber   | 2- 2mm Cable  | 15-1.5m      | LC/PC=LC/PC Connector   |         |
| 08-1080nm   | 09-1092nm   |               |                |                      | 30-30W        |               | Blank for HI1060 Fiber | 3- 3mm Cable  | 20-2.0m      | SC/UPC=SC/UPC Connector |         |