

## 1600~1790nm High Power Fused Coupler/Splitter

### 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        | nm                         | 1625, 1650, 1700, 1730, 1750, 1790                                   |                                            |        |        |       |       |       |  |
| Bandwidth                | nm                         | +/-20                                                                |                                            |        |        |       |       |       |  |
| Excess Loss              | dB                         | ≤0.90                                                                |                                            |        |        |       |       |       |  |
| Split Ratio              | %                          | 0.1:99.9                                                             | 1:99                                       | 2:98   | 5:95   | 10:90 | 40:60 | 50:50 |  |
|                          |                            | 0.1%                                                                 | 1±0.5%                                     | 2±0.6% | 5±1.0% | 10%   | 40%   | 50%   |  |
| Uniformity (50:50 Ratio) | dB                         | ≤0.8                                                                 |                                            |        |        |       |       |       |  |
| Directivity              | dB                         | ≥45                                                                  |                                            |        |        |       |       |       |  |
| Fiber Type               | -                          | SMF-28 Fiber or 8/125um DC Fiber NA=0.12 (M)                         |                                            |        |        |       |       |       |  |
|                          | -                          | 6/125um DC Fiber NA=0.18 (M1) or 10/130um DC Fiber NA=0.15 (O)       |                                            |        |        |       |       |       |  |
| Fiber Tensile Load       | N                          | 5                                                                    |                                            |        |        |       |       |       |  |
| Max. Optical Power (CW)  | W                          | 0.3, 0.5, 1, 2, 3, 5, 10, 15, 20, 25, 30, 40, 50, 80, 100            |                                            |        |        |       |       |       |  |
| 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       |        |        |       |       |       |  |
|                          |                            |                                                                      | Φ3.0x <sup>L</sup> 76 for 900um Loose Tube |        |        |       |       |       |  |
|                          | Metal Box                  | <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.
  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)

| FCLS-NNNN         | - | NN              | N             | -HP           | NN            | -(C)                   | (C)           | C            | NN                      | -CC/CCC |
|-------------------|---|-----------------|---------------|---------------|---------------|------------------------|---------------|--------------|-------------------------|---------|
| Center Wavelength |   | Coupling Ratio  | Configuration | Optical Power | Package       | Fiber Type             | Fiber Sleeve  | Fiber Length | Connector Type          |         |
| 1625-1625nm       |   | 001- 0.1% Ratio | 1- 1x2 Type   | 03-300mW      | M-Metal Box   | O=10/130DC Fiber       | B- Bare fiber | 05=0.5m      | N=Without Connector     |         |
| 1700-1700nm       |   | 05- 5% Ratio    | 2- 2x2 Type   | 1- 1W         | Blank for SST | M= 8/125 PMDC Fiber    | L- Loose Tube | 10=1.0m      | FC/APC=FC/APC Connector |         |
| 1730-1730nm       |   | 10=10% Ratio    |               | 5- 5W         |               | M1= 6/125 PMDC Fiber   | 2- 2mm Cable  | 15=1.5m      | LC/PC=LC/PC Connector   |         |
| 1790-1790nm       |   | 50= 50% Ratio   |               | 10=10W        |               | Blank for SMF-28 Fiber | 3- 3mm Cable  | 20=2.0m      | SC/UPC=SC/UPC Connector |         |