

## 1.5μm Single-Clad Passive Matching Fiber

Changjin Photonics 1.5 μm Single-Clad SingleMode Passive Matching Fiber offers excellent optical performance, low loss characteristics and high mechanical reliability, making it an ideal choice for highpower pump laser delivery, optical communications and scientific instrumentation.

### • Product Features

- ◎ Strict geometric and mechanical specifications
- ◎ Excellent batchtobatch consistency

### • Application Areas

- ◎ Fiber couplers
- ◎ Pigtailed / patch cords
- ◎ DWDM components

### • Product Parameters

| Parameter              |                             | Type     | CJGSF-SM-780                   | CJGSF-SM-980                           | CJGSF-SM-1060                       |
|------------------------|-----------------------------|----------|--------------------------------|----------------------------------------|-------------------------------------|
| Optical                | Operating Wavelength        | nm       | 780-1550                       | 980-1600                               | 970-1550                            |
|                        | Cutoff Wavelength           | nm       | ≤720                           | 920±30                                 | ≤920                                |
|                        | Core NA                     | -        | 0.14±0.01                      | 0.20±0.01                              | 0.135±0.01                          |
|                        | Mode-field Diameter @1550nm | μm       | 4.6±0.5@780nm<br>5.0±0.5@850nm | 4.2±0.5@980nm<br>6.8±0.5@1550nm        | 5.9±0.5@980nm<br>6.3±0.5@1060nm     |
|                        | Dispersion                  | ps/km·nm | -132±5@780nm<br>-100±5@850nm   | -                                      | -53.0±2.0@980nm<br>-38.0±2.0@1060nm |
|                        | Background Loss             | dB/km    | ≤4.5@780nm<br>≤3.5@850nm       | ≤3.5@980nm                             | ≤2.1@980nm<br>≤1.5@1060nm           |
|                        | Bending Loss                | dB/km    | -                              | ≤0.05dB<br>(100 Circular, radius 15mm) | -                                   |
| Geometrical&Mechanical | Core Diameter               | μm       | 4.0±0.5                        | -                                      | 5.0±0.5                             |
|                        | Cladding Diameter           | μm       | 125.0±1.0                      | 125.0±1.0                              | 125.0±2.0                           |
|                        | Core-Clad Offset            | μm       | ≤0.3                           | -                                      | -                                   |
|                        | Cladding Shape              | -        | Circular                       | Circular                               | Circular                            |
|                        | Coating Diameter            | μm       | 245.0±10.0                     | 245.0±15.0                             | 245.0±5.0                           |
|                        | Coating Material            | -        | high refractive index coating  | high refractive index coating          | high refractive index coating       |
|                        | Proof Test Strength         | kpsi     | ≥100                           | ≥100                                   | ≥100                                |