

## DCF Module Series



### Product Introduction

DCM product is specifically designed for correcting dispersion impairments in long-distance transmission system. It is higher performance and lower cost than optical fiber DCM.

### Features

- Low Insertion Loss
- High Non-linear tolerance power
- High compact package
- ROHS Compliant

### Applications

- Long-distance trunk network
- SDH System for 1550.12nm

### Standards

- Telcordia GR-1312-CORE
- RoHS

### Specifications

| Parameter  | Unit             | Specification                            |         |          |          |          |          |
|--|------------------|--|---------|----------|----------|----------|----------|
|  |                  | 20                                       | 40      | 60       | 80       | 100      | 120      |
| Dispersion compensation value @1545nm                    | Km               |  |         |          |          |          |          |
|  | Ps/nm            | -340±10                                  | -670±20 | -1000±30 | -1340±40 | -1680±50 | -2010±60 |
| The relative dispersion slop@1545nm                      | nm <sup>-1</sup> | 0.0036±20%(typical), 0.0036±10%(Premier) |         |          |          |          |          |
| IL@1525~1565nm   | dB               | ≤3.5                                     | ≤5.2    | ≤6.8     | ≤8.1     | ≤9.5     | ≤11.0    |
| IL@1525~1565nm (typical)                                 | dB               | 2.9                                      | 4.4     | 5.6      | 6.9      | 8.0      | 9.3      |
| PMD  | ps               | ≤0.6                                     | ≤0.8    | ≤1.0     | ≤1.1     | ≤1.2     | ≤1.2     |
| PMD(typical)   | ps               | 0.4                                      | 0.6     | 0.7      | 0.8      | 0.9      | 0.9      |
| PDL  | dB               | ≤0.1                                     | ≤0.3    | ≤0.3     | ≤0.3     | ≤0.3     | ≤0.3     |
| Brillouin scattering threshold                           | dBm              | Minimum value 4                          |         |          |          |          |          |
| Nonlinear coefficient(n <sup>2</sup> /A <sub>eff</sub> ) | W <sup>-1</sup>  | Maximum value 1.4x10 <sup>-9</sup>       |         |          |          |          |          |
| Effective area(A <sub>eff</sub> )                        | um <sup>2</sup>  | Minimum value 20                         |         |          |          |          |          |

|                       |    |                         |                         |
|-----------------------|----|-------------------------|-------------------------|
| Operation temperature | °C | -5~+70                  |                         |
| Storage temperature   | °C | -40~+85                 |                         |
| Package dimension     | mm | 19inch Rack(483x254x44) | 21inch Rack(530x254x44) |

### Ordering Information

DCM- F -□-□-□-□-□

