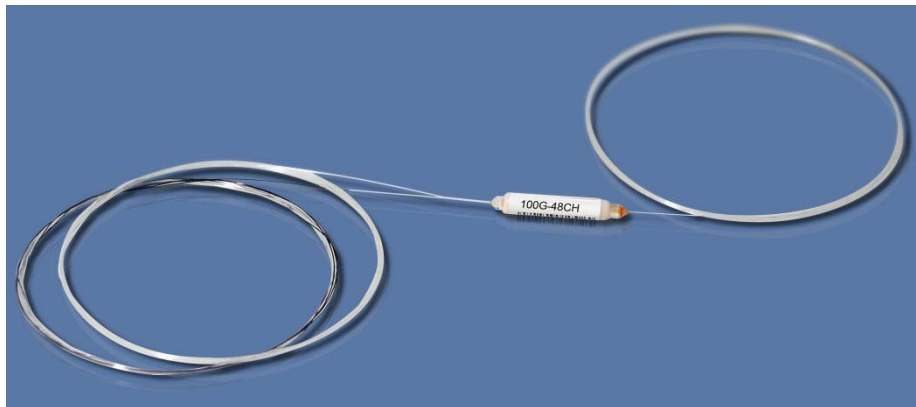
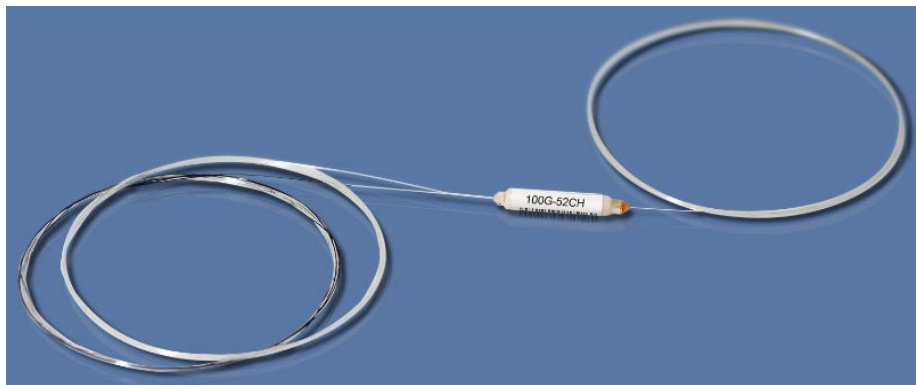


## 100GHz DWDM Devices specification



100G-48CH



100G-52CH

### Description

DWDM 100GHz devices are based on Thin-Film Technology and All-Glass Packaged platform, keeping the device in compact size and excellent performance. Channels comply with ITU grid.

### Features

- Low Insertion Loss
- Wide pass band
- High Channel Isolation
- High Stability and reliability
- Epoxy-free on Optical Path

### Applications

- Line Monitoring
- WDM Network
- Telecommunication
- Cellular Application
- Fiber Optical amplifier
- Access Network

**Performance Specifications**

| Parameters |                                   | Unit                              |    | Specifications Standard | Specifications Premium |
|------------|-----------------------------------|-----------------------------------|----|-------------------------|------------------------|
| 1          | Operating Wavelength Range        | nm                                |    | 1520~1570               | 1460-1640              |
| 2          | Channel Spacing                   | GHz                               |    | 100                     |                        |
| 3          | Channel Pass Band                 | nm                                |    | ITU ± 0.11              | ITU ± 0.125            |
| 4          | Channels                          | nm                                |    | ITU Grid                |                        |
| 5          | Pass Band Ripple                  | Max                               | dB | 0.40                    | 0.30                   |
| 6          | Channel Insertion Loss            | Max.                              | dB | 0.80 (Typical 0.60)     | 0.60(Typical 0.50)     |
| 7          | Reflection Channel Insertion Loss | Max.                              | dB | 0.40 (Typical 0.35)     | 0.30(Typical 0.25)     |
| 8          | Adjacent Channel Isolation        | Min.                              | dB | 30                      | 32                     |
| 9          | Non-Adjacent Channel Isolation    | Min.                              | dB | 45                      | 50                     |
| 10         | Reflection Channel Isolation      | Min.                              | dB | 13                      | 15                     |
| 11         | Return Loss                       | Min.                              | dB | 45                      | 50                     |
| 12         | Directivity                       | Min.                              | dB | 45                      | 50                     |
| 13         | Polarization Dependent Loss       | Max.                              | dB | 0.15                    | 0.10                   |
| 14         | Power Handling                    | Max.                              | mW | 300                     |                        |
| 15         | Tensile Load                      | Max.                              | N  | 5                       |                        |
| 16         | Operation Temperature Range       | °C                                |    | -40 to 85               |                        |
| 17         | Storage Temperature Range         | °C                                |    | -40 to 85               |                        |
| 18         | Fiber Jacket & Fiber Length       | cm                                |    | Customized              |                        |
| 19         | Package Dimensions-Type 1         | mm                                |    | < 3.8 (Φ) * 30 (L)      |                        |
|            | Package Dimensions-Type 2         | mm                                |    | < 4.2 (Φ) * 30 (L)      |                        |
|            | Package Dimensions-Type 3         | mm                                |    | < 5.5 (Φ) * 58 (L)      |                        |
| 20         | Fiber Type                        | G.652D / G.657 A1 (or Customized) |    |                         |                        |
| 21         | Fiber Marking                     | Customized                        |    |                         |                        |

1.Above specifications are for devices without connector.

2.Specifications may change without notice.