

## TFF DWDM 3 Ports Device

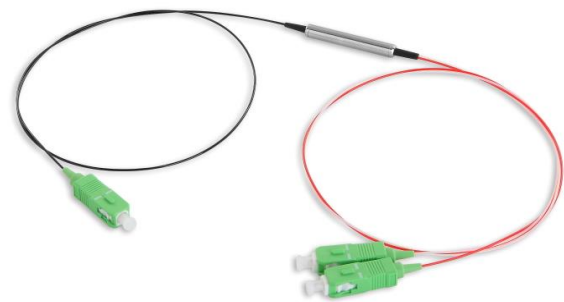
### Features

- Automatic Optical alignment
- Optical path epoxy free
- Low insert loss & high isolation
- Telcordia-GR-1221-Core qualified
- RoHS compliant



### Applications

- PON system
- FTTx network
- DWDM system
- Add/drop channel



### Specifications

| Parameter                                 | Unit                                | Specification                       |                                    |
|---|-------------------------------------|-------------------------------------|------------------------------------|
| Operating Wavelength                      | nm                                  | C/L Band                            |                                    |
| Channel Spacing                           | GHz                                 | 100                                 | 200                                |
| Channel Center Wavelength                 | nm                                  | ITU grid                            |                                    |
| Channel Passband@-0.3dB                   | nm                                  | $\geq 0.22(\lambda_{ITU} \pm 0.11)$ | $\geq 0.5(\lambda_{ITU} \pm 0.25)$ |
| Port of<br>Transmission<br>(Port1=>Port2) | Transmission Insertion Loss         | dB                                  | $\leq 0.8$ (Typical 0.6)           |
|   | Adjacent Channel Isolation          | dB                                  | $> 30$                             |
|   | Non-Adjacent Channel Isolation      | dB                                  | $> 45$                             |
|   | Pass Band Ripple                    | dB                                  | $\leq 0.3$                         |
| Port of Reflection<br>(Port1=>Port3)      | PDL                                 | dB                                  | $\leq 0.15$                        |
|   | Reflection Insertion Loss           | dB                                  | $\leq 0.5$ (Typical 0.3)           |
|   | Isolation of Reflection @ Pass Band | dB                                  | $> 12$                             |
| Insertion Loss Temperature Stability      | dB / °C                             | $\leq 0.003$                        |                                    |
| Wavelength Temperature Stability          | nm / °C                             | $\leq 0.001$                        |                                    |
| Return Loss                               | dB                                  | $\geq 45$                           |                                    |
| Polarization Mode Dispersion              | Ps                                  | $\leq 0.10$                         |                                    |
| Directivity                               | dB                                  | $\geq 45$                           |                                    |
| Power Handling                            | mW                                  | 300                                 |                                    |
| Operating Temperature                     | °C                                  | -40 ~ +85                           |                                    |
| Storage Temperature                       | °C                                  | -40 ~ +85                           |                                    |

Information and specifications are subject to change without notice.  
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|                   |    |  |
|-------------------|----|--|
| Fiber Type        | -- | Corning SMF-28 Ultra, G657A1/A2 or customer specified  |
| Pigtail type      | -- | Ø250µm Bare Fiber or Ø0.9mm loose tube   |
| Fiber length      | m  | 1.0 ,or customer specified   |
| Package Dimension | mm | <p>Steel Tube:<br/> Ø5.5x34 for 250µm bare fiber,<br/> Ø5.5x38 for Ø0.9mm loose tube;</p> <p>Glass Tube:<br/> Ø4.0x26 for Ø250µm bare fiber,<br/> Ø3.2x26 for Ø250µm bare fiber;</p> |

**Note:**

- Insertion loss excluding connector loss. With connectors add 0.3dB;
- Connectors can be customized on request.