

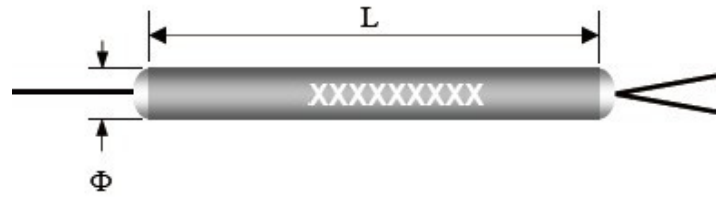


980/1550nm (1480/1550nm) Fused Wavelength Division Multiplexer (WDM)

980/1550nm and 1480/1550nm WDM are widely used in EDFA. They combine the pump power and optical signal into the Er-fiber. 980/1550nm WDM is used for EDFA C-band. The normal WDM were built of Corning HI1060flex or OFS BF05635-02 fiber.

The mixed fiber 980/1550nm WDM uses SMF-28 standard fiber as coupler's 1550nm signal port, while the 980nm pump port and the common port use Corning HI1060flex or OFS BF05635-02 980nm fiber.

The products are Telcordia GR-1221/1209-CORE qualified, and RoHS compliant.



Features

- ◆ Low PDL
- ◆ Low insertion loss
- ◆ High wavelength isolation
- ◆ Extremely good stability and reliability

Applications

- ◆ Optical fiber amplifier
- ◆ EDFA module
- ◆ Communications system

Performance Specifications

| Parameter | Specification | | | | |
|-------------------------------|---|--------|--------|-----------------|--------|
| | 980/1550nm WDM | | | 1480/1550nm WDM | |
| Type | | | | | |
| Grade | S | P | A | P | A |
| Operating Wavelength (nm) | 980/1550+15 | | | 1480/1550+5 | |
| Max. Insertion Loss (dB) | 0.15 | 0.20 | 0.30 | 0.30 | 0.40 |
| Isolation (dB) | > 20 | > 20 | > 20 | > 15 | > 13 |
| Polarization Sensitivity (dB) | < 0.05 | < 0.05 | < 0.05 | < 0.10 | < 0.10 |
| Directivity (dB) | > 55 | | | | |
| Operating Temperature (°C) | -10 ~ +70(-40 ~ +85 available upon request) | | | | |
| Storage Temperature (°C) | -40 ~ +85 | | | | |
| Fiber Type | Corning HI 1060 or CS 980 | | | Corning SMF-28 | |
| Fiber Pigtail Length (m) | 1m or custom length | | | | |
| Port Configuration | 1x2 or 2x2 | | | | |

*The above specification is without connector.

**Other specifications can be made on customer request.

Package Information

| Package Type | A | B | C |
|------------------|------------------|------------------|--------------------------|
| Fiber Diameter | 250µm bare fiber | 900µm loose tube | 900µm/2mm/3mm loose tube |
| Dimensions (Φ×L) | Φ3.0mm×54mm | Φ3.0mm×60mm | 90mm×20mm×9.5mm |



Order information

FBT-①-②②-③③③③-④-⑤-⑥⑥-⑦⑦-⑧⑧

| ① | ②② | ③③③③ | ④ | ⑤ | ⑥⑥ | ⑦⑦ | ⑧⑧ |
|---------------------------------------|---------------------------------|----------------------|---|---|--|--|---|
| Grade | Wavelength | Port | Package | Fiber Type | Fiber Di- ameter | Fiber Length | Connector |
| S: S Grade P: P Grade A:A Grade | 95:980/1550nm 45:1480/1550nm | 0102:1x2 0202:2x2 | A:Package A B:Package B C:Package C | 0:SMF-28 1:Corning HI 1060 2:CS 980 3:HI 1060Flex S:Special | 25:250um 90:900um 20:2.0mm 30:3.0mm XX: Others | 05:0.5m 10:1.0m 15:1.5m XX:Others | 00:None FP: FC/PC FA: FC/APC SP: SC/PC SA: SC/APC LP: LC/PC LA: LC/APC ST: ST/PC XX: Others |