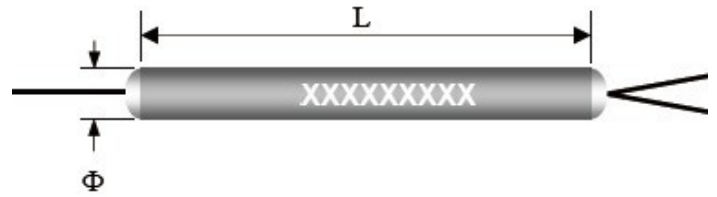




Single Mode Triplex Window Coupler

Built by asymmetric coupling technique, Triplex Window Coupler operating bandwidth is expanding to 1310nm, 1490nm and 1550nm three communication windows. The TWC coupler has the same coupling ratio on 1310, 1490 and 1550nm communication windows, with low excess loss and low PDL. TWC is widely used for communication systems, CATV,FTTH,where multiple optical signals pass through single fiber.

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



Features

- ◆ Low excess loss
- ◆ Various coupling ratio
- ◆ Compact size

Applications

- ◆ Long-haul telecommunications
- ◆ CATV systems & Fiber sensors
- ◆ Local area network

Performance Specifications

| Parameter | Specification |
|--------------------------|---|
| Coupling Ratio (%) | 1-50 |
| Directivity (dB) | ≥55 dB |
| Operating Temperature | -40 ° C - 85 ° C |
| Storage Temperature | -40 ° C - 85 ° C |
| Fiber Type | Corning Singlemode SMF-28 , DS Fiber, or Flexcore |
| Fiber Pigtail Length (m) | 1meter |
| Port Configuration | 1x2 or 2x2 |
| Package Dimension | Seeing Package Information |

Single mode Triplex Window Wideband Couplers

| Grade | P | A |
|-------------------------------|-------------------------------|------|
| Excess Loss (Typical)(dB) | 0.10 | 0.15 |
| Maximum Insertion loss (dB) | 3.6 | 3.8 |
| Uniformity (Max.) (dB) | 0.7 | 1.0 |
| Polarization Sensitivity (dB) | 0.10 | 0.15 |
| Operating Wavelength (nm) | 1310 /1550 + 40, and 1490+ 10 | |



Coupling Ratio/Insertion Loss Conversion Chart

| Coupling Ratio | Insertion Loss | |
|----------------|----------------|-----------|
| | Premium | A Grade |
| 40/60 | 4.4/2.5 | 4.6/2.8 |
| 30/70 | 5.6/1.8 | 6.0/2.0 |
| 20/80 | 7.4/1.1 | 7.7/1.3 |
| 10/90 | 10.8/0.6 | 12.0/0.8 |
| 5/95 | 14.6/0.4 | 15.7/0.55 |
| 2/98 | 19.0/0.2 | 19.5/0.3 |
| 1/99 | 21.0/0.2 | 21.5/0.3 |

*The above specification is without connector

**Other specifications can be made on customer request.

Package Information

| Package Type | A | B | C | D |
|------------------|------------------|------------------|------------------|--------------------------|
| Fiber Diameter | 250μm bare fiber | 250μm bare fiber | 900μm loose tube | 900μm/2mm/3mm loose tube |
| Dimensions (Φ×L) | Φ3.0mm×40mm | Φ3.0mm×54mm | Φ3.0mm×60mm | 90mm×20mm×9.5mm |

Order information

FBT-①-②②②-③③-④④④④-⑤-⑥-⑦⑦-⑧⑧-⑨⑨

| ① | ②②② | ③③ | ④④④④ | ⑤ | ⑥ | ⑦⑦ | ⑧⑧ | ⑨⑨ |
|-------------------------------|-------------------------------------|--|----------------------|--|--|--|--|---|
| Grade | Wavelength | Coupling Ratio (dB) | Port | Package | Fiber Type | Fiber Diameter | Fiber Length | Connector |
| P: P Grade A:A Grade | 345:1310/1490/1550nm XXX: Others | 50:50/50 40:40/60 30:30/70 20:20/80 10:10/90 05:5/95 03:3/97 02:2/98 01:1/99 XX: Others | 0102:1x2 0202:2x2 | A:Package A B:Package B C:Package C | 0:SMF-28 1:Corning Flexcore 1060 2:Corning Flexcore 780nm D:DS Fiber X: Others | 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 |