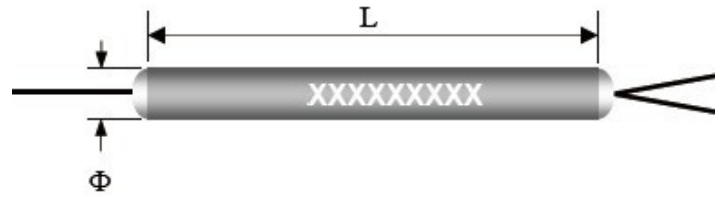




Single Mode Dual Window Coupler

Dual window coupler (DWC) is built by asymmetric coupling technique. The operating bandwidth of this normal coupler is expanding to $\pm 40\text{nm}$, and the ultra broadband coupler is expanding to $\pm 80\text{nm}$. The DWC coupler has the same coupling ratio on both 1310nm and 1550nm communication windows, and with low excess loss and low PDL. DWC couplers are widely used for communication systems, CATV, and FTTH.

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 Dual 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, others on request	



Coupling Ratio/Insertion Loss Conversion Chart

Coupling Ratio	Insertion Loss	
Grade	Premium	A Grade
40/60	4.7/2.7	5.0/2.9
30/70	6.0/1.9	6.4/2.1
20/80	7.9/1.2	8.4/1.4
10/90	11.3/0.5	12.7/0.8
5/95	15.2/0.4	18.5/0.5
1/99	22.5/0.3	23.0/0.4

*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-①-②②-③③-④④④④-⑤-⑥-⑦⑦-⑧⑧-⑨⑨

①	②②	③③	④④④④	⑤	⑥	⑦⑦	⑧⑧	⑨⑨
Grade	Wave-length	Coupling Ratio (dB)	Port	Package	Fiber Type	Fiber Diameter	Fiber Length	Connector
P: P Grade A:A Grade	35:1310/1 550nm 36:1310/1 585nm XX: 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