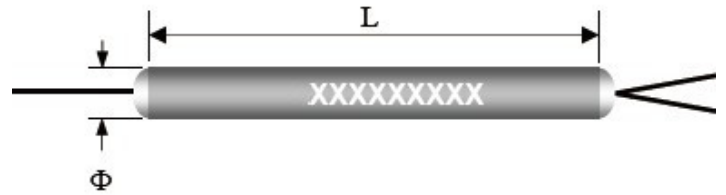




All Band Fused Coupler

Built by asymmetric coupling technique, All Band Fused Coupler operating bandwidth is expanding to 1260nm~1650nm. The All Band Fused Coupler has the same coupling ratio on full band communication windows, with low excess loss and low PDL. All Band Fused Coupler 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

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

Applications

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

Performance Specifications

Parameter	Specification
Operating Wavelength(nm)	1260~1650
Coupling Ratio (%)	1-50
Excess Loss (Typical)(dB)	0.10(P Grade); 0.15(A Grade)
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	Package A, B, C

Coupling Ratio/Insertion Loss Conversion Chart

Coupling Ratio	Max. Insertion Loss	
	Premium	A Grade
50/50	3.8	4.0
40/60	5.1/3.1	5.3/3.3
30/70	6.4/2.2	6.6/2.4
20/80	8.2/1.5	8.6/1.7
10/90	11.5/1.0	12.2/1.1
5/95	14.6/0.8	15.5/0.9
1/99	22.5/0.55	23.5/0.75

*The above specification is without connector,

**Other specifications can be made on customer request.



Package Information

Package Type	A	B	C	D	E
Fiber Diameter	250µm bare fiber	900µm loose tube	900µm/2mm/3mm loose tube	900µm/2mm/3mm loose tube	900µm/2mm/3mm loose tube
Dimensions (mm)	Φ3.0×54	Φ3.0×60	90×20×9.5	100×80×10.5	120×80×18

Order information

FBT-①-②②②-③③-④④④④-⑤-⑥-⑦⑦-⑧⑧-⑨⑨

①	②②②	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	ABC:All Band Coupler 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	25:250u m 90:900u m 20:2.0m m 30:3.0m m 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