

1x2 (2x2) FBT Coupler



Product Description

We use fused biconical taper technique to build a series of couplers. According to the different operating bandwidths, we have wide band couplers, dual window couplers, all band couplers, and so on.

Main Features

- Low insertion loss and low PDL
- High reliability & High stability
- Telcordia GR1221/1209, RoHS Compliant

Application

- EDFA CATV Passive network WAN
- FTTH

Compliance

- Telcordia GR-1221/1209

Technical Specifications

Optic Performance								
Parameter		Unit	Value					
Type			Dual-Window Coupler(DWC)		Three-Window Coupler(TWC)		All Band Coupler(ABC)	
Grade			P	A	P	A	P	A
Operating Wavelength		nm	1310 and 1550		1310 and 1550		1260~1620	
Operating Bandwidth		nm	1310/1550 ± 40		1310/1550 ± 40 1490 ± 10		1260~1620	
Insertion Loss	50/50	dB	≤ 3.6	≤ 3.8	≤ 3.6	≤ 3.8	≤ 3.8	≤ 4.0
	40/60	dB	≤ 4.7/2.7	≤ 4.9/2.9	≤ 4.7/2.7	≤ 4.9/2.9	≤ 5.1/3.1	≤ 5.3/3.3
	30/70	dB	≤ 6.0/1.9	≤ 6.3/2.1	≤ 6.0/1.9	≤ 6.3/2.1	≤ 6.4/2.3	≤ 6.7/2.5
	20/80	dB	≤ 7.9/1.3	≤ 8.4/1.4	≤ 7.9/1.3	≤ 8.4/1.4	≤ 8.3/1.6	≤ 8.8/1.8
	10/90	dB	≤ 9.20~11.00/0.75	≤ 8.80~11.40/0.8	≤ 9.20~11.00/0.75	≤ 8.80~11.40/0.8	≤ 11.5/1.05	≤ 12.2/1.2
	5/95	dB	≤ 12.05~14.20/0.4	≤ 11.55~14.65/0.5	≤ 12.05~14.20/0.4	≤ 11.55~14.65/0.5	≤ 14.6 /0.8	≤ 15.5/0.9
	3/97	dB	≤ 14.10~16.50/0.35	≤ 13.60~17.05/0.45	≤ 14.10~16.50/0.35	≤ 13.60~17.05/0.45	≤ 17.0/0.75	≤ 17.7/0.85
	2/98	dB	≤ 15.60~18.55/0.3	≤ 15.00~19.20/0.4	≤ 15.60~18.55/0.3	≤ 15.00~19.20/0.4	≤ 18.8/0.7	≤ 19.5/0.8
	1/99	dB	≤ 18.45~21.70/0.25	≤ 17.80~22.40/0.35	≤ 18.45~21.70/0.25	≤ 17.80~22.40/0.35	≤ 21.95/0.65	≤ 22.7/0.75
Polarization Dependent Loss		dB	≤ 0.15					
Temperature Dependent Loss		dB	≤ 0.2					
Directivity		dB	≥ 55					
Return Loss		dB	≥ 55					
Operating Temperature		℃	-40~+85					
Storage Temperature		℃	-40~+85					

Notes

- ①The above specification is without connectors.
- ②Add an additional 0.20dB loss per connector.
- ③All band coupler insertion loss around 1380nm is counted in the specification above.