

## 1 x 2 FBT Coupler

FBT coupler is an optical device that combines or splits power from optical fibers. Optical splitter divides light from a single fiber into two or more fiber channels.

### Features

- ◆ Low Insertion loss
- ◆ Low PDL
- ◆ Compact Design
- ◆ Good channel-to-channel uniformity ◆ Wide

Operating Wavelength:

1310/1490/1550

- ◆ Wide Operating Temperature:  
From -40°C to 85°C
- ◆ High Reliability and Stability



### Applications

- ◆ FTTX Systems
- ◆ PON Networks
- ◆ CATV Links
- ◆ Optical Signal Distribution

### Compliance

- ◆ Telcordia GR-1209-CORE
- ◆ Telcordia GR-1221-CORE ◆ RoHS

### Specifications

Parameters	1×2
Operating Wavelength (nm)	1310/1490/1550
Fiber Type	SMF-28e
Loss Uniformity (dB)	0.4
Polarization Dependent Loss(dB)	0.2
Return Loss (dB)	55
Directivity (dB)	55
Wavelength Dependent Loss (dB)	0.3
Temperature Stability (-40~85 °C)(dB)	0.4
Operating Temperature (°C)	-40~85
Storage Temperature (°C)	-40~85
Device Dimension (mm)	3*54

Power ratio	Ratio coupling tolerance	Dual window 1310&1550nm		Single window. 1310 or 1550nm	
		Max insertion loss		Max insertion loss	
		Low ratio end ≤dB	High ratio end ≤dB	Low ratio end ≤dB	High ratio end ≤dB
50 : 50	±1.8	3.40	3.40	3.20	3.20
49 : 51	±1.8	3.50	3.25	3.30	3.05
48 : 52	±1.8	3.60	3.15	3.40	2.95
47 : 53	±1.8	3.70	3.05	3.50	2.85
46 : 54	±1.8	3.80	2.95	3.60	2.80
45 : 55	±1.8	3.90	2.80	3.70	2.70
44 : 56	±1.8	4.00	2.75	3.80	2.65
43 : 57	±1.8	4.10	2.70	3.90	2.55
42 : 58	±1.8	4.20	2.65	4.00	2.50
41 : 59	±1.8	4.30	2.60	4.10	2.45
40 : 60	±1.8	4.40	2.50	4.20	2.40
39 : 61	±1.8	4.50	2.40	4.35	2.35
38 : 62	±1.8	4.60	2.35	4.45	2.25
37 : 63	±1.8	4.75	2.25	4.65	2.20
36 : 64	±1.8	4.85	2.20	4.75	2.15
35 : 65	±1.8	5.00	2.10	4.90	2.10
34 : 66	±1.8	5.10	2.00	5.00	2.00
33 : 67	±1.8	5.20	1.95	5.10	1.90
32 : 68	±1.8	5.35	1.90	5.20	1.85
31 : 69	±1.8	5.50	1.85	5.35	1.80
30 : 70	±1.8	5.65	1.80	5.50	1.75
29 : 71	±1.8	5.80	1.75	5.65	1.70
28 : 72	±1.8	5.95	1.70	5.80	1.65
27 : 73	±1.8	6.10	1.65	6.00	1.60
26 : 74	±1.8	6.25	1.60	6.20	1.55
25 : 75	±1.8	6.50	1.50	6.40	1.45
24 : 76	±1.8	6.60	1.45	6.80	1.40
23 : 77	±1.8	6.80	1.40	6.98	1.35
22 : 78	±1.8	7.00	1.35	7.18	1.30
21 : 79	±1.8	7.20	1.30	7.38	1.25
20 : 80	±1.8	7.50	1.20	7.30	1.15

19 : 81	±1.8	7.70	1.10	7.55	1.10
18 : 82	±1.8	7.90	1.05	7.75	1.05
17 : 83	±1.8	8.20	1.00	8.00	1.00
16 : 84	±1.8	8.45	0.95	8.30	0.95
15 : 85	±1.8	8.70	0.90	8.60	0.85
14 : 86	±1.8	9.00	0.85	8.90	0.80
13 : 87	±1.8	9.30	0.80	9.25	0.75
12 : 88	±1.8	9.64	0.75	9.60	0.70
11 : 89	±1.8	10.00	0.70	10.10	0.65
10 : 90	±1.8	10.80	0.65	10.40	0.60
9 : 91	±1	11.30	0.60	11.00	0.55
8 : 92	±1	11.80	0.55	11.50	0.50
7 : 93	±1	12.35	0.50	12.10	0.45
6 : 94	±1	13.00	0.45	12.80	0.40
5 : 95	±1	13.90	0.40	13.60	0.35
4 : 96	±0.5	15.00	0.35	14.60	0.30
3 : 97	±0.5	16.25	0.30	15.80	0.25
2 : 98	±0.2	18.00	0.25	17.60	0.20
1 : 99	±0.2	21.00	0.20	20.60	0.15

