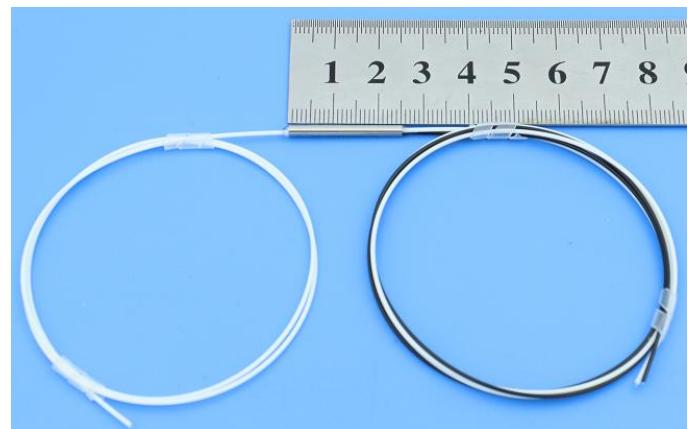


1x2(2x2)Mini FBT Coupler

The 1X2/2X2 mini size FBT is designed for the compact optical modules and communication systems. The Dual window coupler has the same coupling ratio on both 1310nm and 1550nm communication windows, and with low excess loss and low PDL. Dual window couplers are widely used for communication systems, CATV, and FTTH



Features

- ❖ Low Excess loss
- ❖ High Power Handling
- ❖ Low PDL
- ❖ High stability and reliability

Application

- ❖ Optical Amplifier
- ❖ Power Monitoring
- ❖ Coherent Communication
- ❖ Fiber Gyroscope

Performance Specifications

Parameters	Grade P	Grade A
Operating Wavelength(nm)	1310 & 1550	
Operating Bandwidth(nm)	+/-40	
Typcal Excess Loss(dB)	≤0.07	≤0.1
PDL(dB)	≤0.15	≤0.2
Return Loss(dB)		≥50
Directivity(dB)		≥50
Max Optical Power(mW)		≤500
Operating Temperature(°C)		-40~+85
Storage Temperature(°C)		-40~+85
Splitting Ratio Tolerance		
Splitting Ratio	Insertion Loss(dB)	
50/50	≤3.6	≤3.8
45/55	≤4.2/3.2	≤4.4/3.4
40/60	≤4.7/2.7	≤4.9/2.9
35/65	≤5.4/2.4	≤5.7/2.6
33/67	≤5.7/2.2	≤6.0/2.4
30/70	≤6.0/1.9	≤6.3/2.1
25/75	≤7.0/1.7	≤7.3/1.9
20/80	≤7.9/1.3	≤8.4/1.4
15/85	≤9.5/1.0	≤10.0/1.2
10/90	9.2~11.2/≤0.75	8.80~11.40/≤0.8
5/95	12.05~14.15/≤0.4	11.60~14.60/≤0.5
3/97	14.1~16.5/≤0.35	13.60~17.05/≤0.45
2/98	15.75~18.45/≤0.3	15.15~19.00/≤0.4
1/99	18.6~21.6/≤0.25	17.95~22.25/≤0.35

*Notes: 1.Insertion Loss tested without connector.

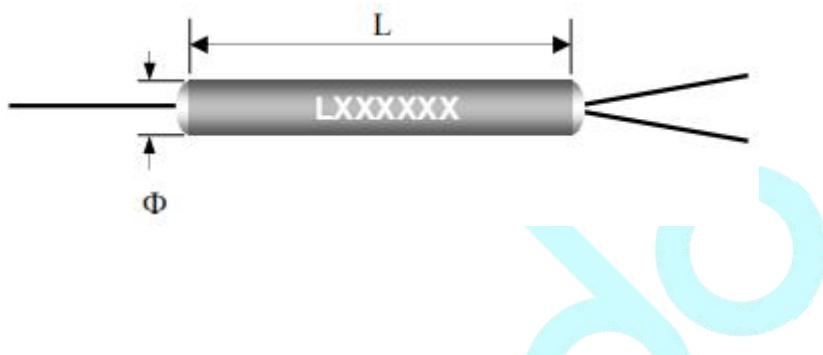
1x2(2x2)Mini FBT Coupler



Package Information

Configuration	1x2 or 2x2
Fiber Length	1m , or others on request
Fiber Type	SM fiber
Pigtail Type	250um bare fiber/900um loose tube
Dimensions(mm)	Ø2.4xL25

Dimensions(Unit:mm)



Order information:

FBT (FBT Coupler) PN: FBT-XXXXXXX-XX (FBT+8 Code+2 Serial Number)

FBT	X	X	X	X	X	X	X	XX	XX
	Channel	Center Wavelength	Package Type	Fiber Jacket	Fiber Length	Connector		Splitting Ratio	
1	1x1	1 780	0 Non Package	0 250um Bare Fiber	0 0.5m	0 none	01	1/99	SN
2	1x2	2 850	1 φ 3X54	1 0.9mm Loose Tube	1 1.0m	1 SC/UPC	02	2/98	
3	1x3	3 980	2 φ 3X60	2 2.0mm Loose Tube	2 1.5m	2 SC/APC	03	3/97	
4	1x4	4 1310	3 φ 3X40	3 3.0mm Loose Tube	3 2.0m	3 FC/UPC	
5	2x2	5 1490	4 φ 3X45	4 0.9mm Tight Tube	4 2.5m	4 FC/APC	48	48/52	
6	3x3	6 1550	5 φ 4X64	5 2.0mm Tight Tube	5 3.0m	5 LC/UPC	49	49/51	
7	4x4	7 1310&1490	6 φ 4X75	6 3.0mm Tight Tube	6 3.5m	6 LC/APC	50	50/50	
S	Special	8 1310&1550	7 90×20×10 ABS	M MM Fiber	7 0.7m	7 ST/UPC	0S	Special	
		9 1490&1550	8 100×80×10 ABS	P PM Fiber	8 1.2m	8 E2000			
		0 1310&1490&1550		S Special	9 2.7m	9 MPO			
		S Special			S Special	S Special			