Brotechs
Brotechs Communication Co., Ltd.

Fused Biconic Coupler/Tap(FBC)-FBFD Series

Brotechs's FBFD utilizes our unique material and manufacturing process which allow accurate control of fiber position, fusion and packaging processes to provide low excess loss, low wavelength dependence, low PDL and insensitive to working temperature up to 280℃.

FBTD's are available in a wide variety of configurations, tape ratios, wavelength ranges, housing and connector options, and can therefore be readily secified in a wide variety of applications, enabling rapid design cycles and new project builds. These products meet or exceed Telcordia GR-1209-CORE and GR-1221-CORE reliability qualification requirement.

Key

- **Low excess Loss and PDL**
- **High reliability**
- **High directivity**
- **Wide operating temperature up to 280℃**
- **Broad bandwidth**

Applications

- **Network monitoring**
- **EDFA**
- **Optical testing system**
- **Optical fiber sensors**
- **High temperature fiber optic systems**

FBC Specification

Parameter		Unit	Single-Window		Dual / Triple-Window	
Configuration			1x1(Attenuator) / 1x2 / 2x2			
Fiber Type			SMF28e,MM fibers			
Wavelength		nm	980 / 1060 / 1310 / 1480 / 1550 / 1620			
Bandwidth	B	nm	±20	±40	±40	±1270~1610
Insertion	Max	dB	3.6	3.7	3.9	4.0
Excess	Typ	dB	0.1	0.15	0.1	0.15
Uniformity	Max	dB	0.8	0.9	1.1	1.4
PDL	Max	dB	0.1	0.15	0.2	0.2
Return	Max	dB	50 (Test at central wavelength only)			
Operating	Max	W	5.0			
Operating		℃	-10 ~ +70			
Storage		℃	-40 ~ +85			
Package Type	T1	mm	Ø3x40 for 250um bare fiber			
	T2		Ø3x60 for 900um tube			
	A2		100x80x10 for 900um tube or 3mm cable			
Special Feature	N		Normal			
	H	℃	High temperature of over 280℃			
	L	%	Very low branching ratio 0.01%, 0.1%			
	U	dB	Ultra-low PDL of less than 0.02dB			

Notes:*Specifications without fiber connectors*

Brotechs Communication Co., Ltd.
Tel: +886-2-8226-2528 Fax: +886-2-8226-2058

Ordering Information

3210 — [Input] — [Output] — [Wavelength] — [Fiber Type] — [Fiber length] — [Connector] — [Package Type]

Input	Output	Wavelength	Fiber Type	Fiber length	Connector	Package Type
1: 1	01: 1	1: 808nm	0: 250μm	1: 1M	0: W/O conn	T1: Tube Φ3.0x40mm
2: 2	02: 2	2: 980nm	bare fiber	2: 2M	1: LC/PC	T2: Tube Φ3.0x54mm
	03: 3	3: 1310nm	1: 900μm	1A: 1.5M	2: SC/PC	T3: Tube Φ3.0x60mm
	…	4: 1490nm	2: 2.0mm	…	3: ST/PC	T4: Tube Φ5.5x34mm
	16: 16	5: 1550nm	3: 3.0mm		7: FC/PC	A1: ABS 90x20x10mm
	24: 24	6: 850nm	C:Customize		9: MU	A2: ABS 100x80x10mm
	32: 32	7: 1310&1490nm			A: LC/APC	A3: ABS 141x115x18mm
	48: 48	8: 1310&1550nm			B: SC/APC	L1: LGX 128.8x103x29.2mm
	CM:Customize	9: 1490&1550nm			D: FC/APC	L2: LGX 128.8x103x58.4 mm
		0: 1310&1490 &1550nm				L3: LGX 128.8x103x87.6mm
		C:Customize				R1: Rack 1U 19"
						R2: Rack 2U 19"

Brotechs Communication Co., Ltd.
Tel: +886-2-8226-2528 Fax: +886-2-8226-2058