

## Fused Biconic WDM(FBW)

The Brotechs FBFD Series WDM made by the fused biconic taper(FBT) fusing process. It provides low insertion loss and high isolation for combining pump 1480nm and signal light 1550nm in Optical Fiber Amplifier Systems. They comply with Telcordia GR-1209-CORE and GR-1221-CORE standards for performance and reliability.

### Applications

- Network monitoring
- EDFA
- Optical testing system
- High temperature fiber optic

### Features

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



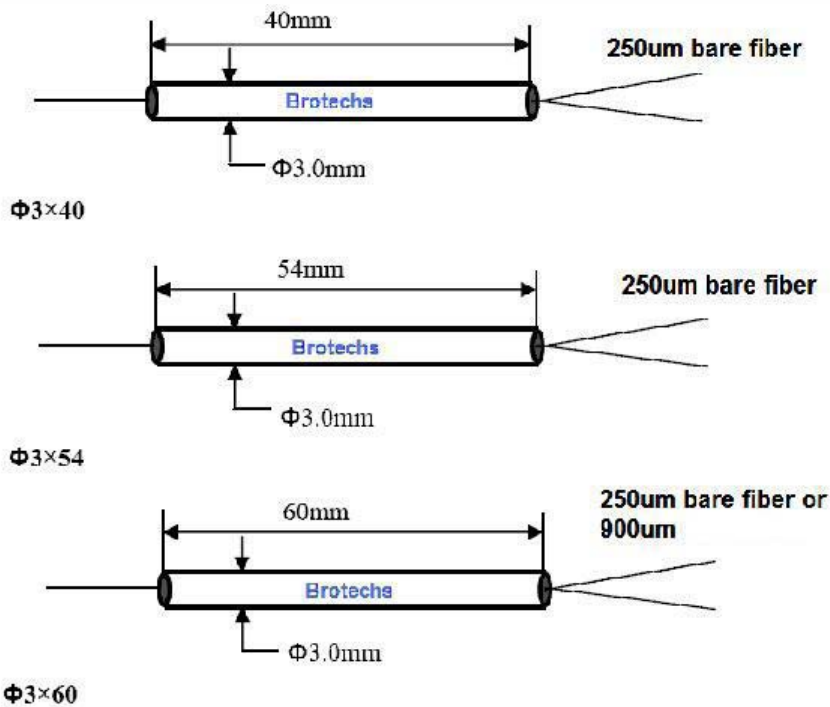
### FBW Specifications

Parameter	Unit	1060/1310	1310/1490	980/1550	980/1060	980/1310	1550/1620	1310/1490	1310/1550	1480/1550	
Configuration		1x2 / 2x2									
Configuration		SMF28e									
Long Wavelength	nm	1310±15	1490±10	1550/1582±20	1060±5	1310±10	1620±5	1490±10	1550±15	1550/1600±5	
Insertion Loss	Max	dB	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	
Isolation	Typ	dB	16	16	18	13	16	13	16	14	
PDL	Max	dB	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	
Short		nm	1060±15	1310±10	970±10	980±5	980±10	1550±5	1310±10	1310±15	1480±5
Insertion Loss	Max	dB	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	
Isolation	Typ	dB	16	16	18	13	16	13	16	14	
PDL	Max	dB	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	
Return Loss	Max	dB	50 (Test at central wavelength only)								
Operating	Max	W	5								
Operating		°C	-40 ~ +85								
Storage		°C	-60 ~ +85								
Package Type	T1	mm	Ø3x40 for 250um bare fiber								
	T3		Ø3x60 for 900um tube								
	A1		10x20x90 for 900um tube or 3mm cable								
Special Feature	H	°C	High temperature of over 280°C								
	S	%	Special configuration of 1x3, 1310nm, 1490nm, 1550nm								
	V	dB	Very high isolation version over 32dB available in module								

**Notes:** Specifications without fiber connectors.



## Demensions Diagram



## Ordering Information

Type	Wavelength	Fiber Type	Fiber length	Connector	Package Type
3110					
1: 1x2	13: 1060/1310nm	0: 250μm	1: 1M	0: W/O conn	T1: Tube Φ3.0x40mm
2: 2x2	34: 1310/1490nm	bare fiber	2: 2M	1: LC/PC	T2: Tube Φ3.0x54mm
	35: 1310/1550nm	1: 900μm	1A: 1.5M	2: SC/PC	T3: Tube Φ3.0x60mm
	56: 1550/1620nm	2: 2.0mm	...	3: ST/PC	T4: Tube Φ5.5x34mm
	85: 1480/1550nm	3: 3.0mm		7: FC/PC	A1: ABS 90x20x10mm
	91: 980/1060nm			9: MU	A2: ABS 100x80x10mm
	93: 980/1310nm			A: LC/APC	L1: LGX 128.8x103x29.2mm
	95: 980/1550nm			B: SC/APC	
	CM: Customize			D: FC/APC	

※For more information on these or other products and their availability , please contact us.

