

Fused Biconic Splitter (FBS) - FBFD Series



Compliance

- Telcordia GR-1209-CORE
- Telcordia GR-1221-CORE

- ### Key Features
- Low excess loss and PDL
 - High reliability
 - High directivity
 - Wide operating temperature up to 280°C
 - Broad bandwidth

- ### Applications
- Network monitoring
 - EDFA
 - Optical testing system
 - Optical fiber sensors
 - High temperature fiberoptic systems

Specifications

Parameter		Unit	1×4						1×8			
Window			Single-				Dual-		Single-			
Grade			P	A	P	A	P	A	P	A	P	A
Fiber type			SMF-28, Allwave, MM fibers, PM fibers, others									
Wavelength		nm	1310 or 1550				1310 and 1550		1310 or 1550			
Bandwidth	B	nm	±10		±40		±40		±10		±40	
Insertion Loss	Max.	dB	6.7	7.3	7	7.5	7.5	7.8	10.8	11.6	11.1	11.9
Excess Loss	Typ.	dB	0.2	0.3	0.2	0.3	0.4	0.6	0.4	0.6	0.4	0.6
Uniformity	Max.	dB	0.9	1.3	1.1	1.6	1.3	1.9	1.8	2.3	2	2.5
PDL	Max.	dB	0.1	0.15	0.1	0.15	0.25	0.3	0.2	0.3	0.2	0.3
Return Loss	Min.	dB	50 (Test at central wavelength only)									
Operating Power	Max.	W	5									
Operating Temperature		℃	-40 ~ +85									
Storage Temperature		℃	-60 ~ +85									
Package Type	B	mm	B3 (Φ4×40 for 250μm bare fiber)						B4 (Φ4×50 for 250μm bare fiber)			
	L		L2 (Φ4×60 for 900μm loose tube)						L3 (Φ4×70 for 900μm loose tube)			
	M1		10×20×90 for 900μm loose tube or 3mm cable									
Special Feature	N		Normal									
	H	℃	High temperature over 280℃									

Ordering Information

Sample: FBS - NDB3Q4P1S20

FBS —

Code	Feature
N	Normal
H	High temperature
L	Low branch ratio
U	Ultra-low PDL

Code	Window
S	Single-
D	Dual-

Code	Band
N	Narrowband
B	Broadband

Code	Wavelength
3	1310nm
5	1550nm

Code	Splitting Ratio
Q	25:25:25:25
E	Even
X	Customize

Code	Configuration
4	1×4
8	1×8

Code	Grade
A	Grade A
P	Premium

Code	Package
1	B3
2	B4
3	L2
4	L3
5	M1
X	Customize

Code	Fiber Type
S	SMF-28
P	Polarization Maintaining
M	Multi-Mode

Code	Fiber Length
0	0.5m
1	1.0m
2	1.5m
3	2.0m
X	Customize

Code	Connector
0	None
1	SC/UPC
2	SC/APC
3	FC/UPC
4	FC/APC
5	LC/UPC
6	ST/UPC
M	MU
X	Customize

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