

Fused Biconic WDM Coupler



980/1550nm and 1480/1550nm WDM are widely used in EDFA, Which can combine the pump power and optical signal into the Er-fiber.

1310/1550 WDM can be used to combine or split 1310nm and 1550nm optical signals, which double the fiber transmission capability and ensure bi-direction communication in a single fiber.



Features

- ❖ Low insertion loss
- ❖ High isolation
- ❖ Compact size
- ❖ High stability and reliability

Application

- ❖ Network Monitoring
- ❖ Optical Fiber Sensors
- ❖ CATV / FTTH / EDFA

Performance Specifications

Parameters		980/1550		1310/1550		1480/1550			
Operating Wavelength(nm)		980 & 1550		1310 & 1550		1480 & 1550			
Operating Bandwidth(nm)		+/-10/20		+/-15		+/-5			
Fiber	Common port & Pump port	Corning Hi1060flex or OFS BF05635-02		SMF-28e					
	Signal port								
Grade		P	A	P	A	P	A		
Insertion Loss(dB)		≤0.15	≤0.25	≤0.2	≤0.3	≤0.3	≤0.35		
Isolation(dB)		≥20	≥18	≥17	≥16	≥15	≥14		
PDL(dB)		≤0.05	≤0.1	≤0.05	≤0.1	≤0.1	≤0.1		
Return Loss(dB)		≥50							
Directivity(dB)		≥50							
Operating Temperature(°C)		-40~+85							
Storage Temperature(°C)		-40~+85							

*Notes: 1.Insertion Loss tested without connector.

2.Other specifications can be made on customer request.

Package Information

Configuration	1x2 or 2x2		
Fiber Length	1m, or others on request		
Pigtail Type	250um bare fiber	900um loose tube	900um/2mm/3mm loose tube
Dimensions(mm)	Ø3.0xL54	Ø3.0xL54	L90xW20xH10

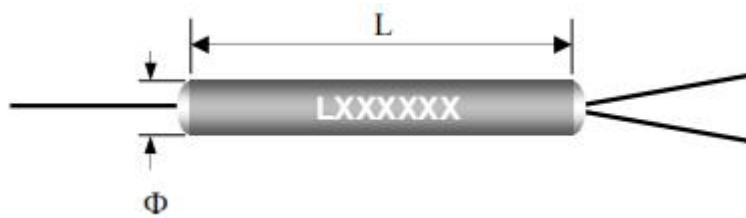
Other package dimensions can be made on customer request.

Dimensions(Unit:mm)

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Order information:

FBW (Fused WDM) PN: FBW-XXXXXXX-XX (FBW+7 Code+2 Serial Number)

FBW	X	XX	X	X	X	X	X	XX
	Channel	Center	Package Type	Fiber Jacket	Fiber Length	Connector		
1	1x1	13 1060/1310	0 Non Package	0 250um Bare Fiber	0 0.5m	0 none	SN	
	1x2	24 1310/1490	1 Φ 3X54	1 0.9mm Loose Tube	1 1.0m	1 SC/UPC		
		35 1310/1550	2 Φ 4X64	2 2.0mm Loose Tube	2 1.5m	2 SC/APC		
		56 1550/1620	3 Φ 3X60	3 3.0mm Loose Tube	3 2.0m	3 FC/UPC		
		85 1480/1550	4 Φ 3X40	4 0.9mm Tight Tube	4 2.5m	4 FC/APC		
		91 980/1060	5 Φ 3X45	5 2.0mm Tight Tube	5 3.0m	5 LC/UPC		
		93 980/1310	6 90×20×10ABS	6 3.0mm Tight Tube	6 3.5m	6 LC/APC		
		95 980/1550	7 100×80×10 ABS	M MM Fiber	7 0.7m	7 ST/UPC		
		0S Special	S Special	P PM Fiber	8 1.2m	8 E2000		
				S Special	9 2.7m	9 MPO		
					S Special	S Special		