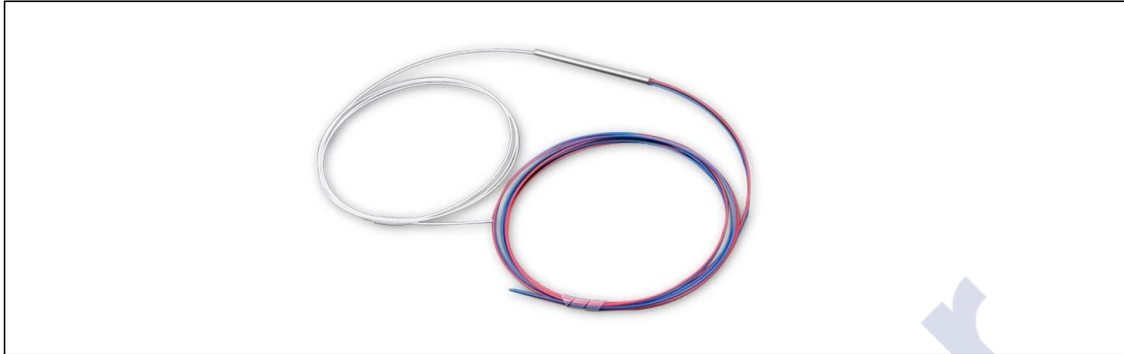


FBT Coupler Splitter

Product Drawing



Product Description

The FBT Coupler Splitter uses melt taper technology to control the melting and stretching process of optical fibers, forming a special waveguide structure and achieving uniform distribution of optical signals. This technology ensures the stability and consistency of optical signals during the distribution process. Provide multiple coupling ratio options, such as 1x2, 1x4, etc., which can be flexibly configured according to actual application needs. At the same time, its spectral ratio can be monitored in real-time according to needs, and unequal splitters can be made to meet the optical power allocation requirements in specific scenarios, with good thermal stability and power bearing capacity, meeting the needs of various application scenarios.

Product features

- Small size, compact package.
- Low insertion loss, low PDL, high return loss.
- Excellent channel uniformity.
- Telcordia GR-1209 and GR-1221 compliant.

Application

FTTX networks,PON networks;LAN networks,CATV systems.

Technical Specifications

Product Parameters

Project		Technical indicators					
Product name		FBT Coupler Splitter					
Parameter	Unit	Wide Band Coupler		Dual Window Coupler		Multimode Fiber Coupler	
Grade	/	P	S	P	S	P	S
Operating Wavelength	nm	1310,1550or C+Brand		1310and1550		850or1310 or customer specified	
Operating Bandwidth	nm	±40		±40		±40	
Typical Excess Loss	dB	≤0.07	≤0.01	≤0.07	≤0.01	≤0.01	≤0.7

Insertion Loss	50/50	dB	≤3.4	≤3.6	≤3.4	≤3.6	≤3.6	≤4.0									
	40/60		≤4.2/2.6	≤4.7/2.8	≤4.5/2.6	≤4.7/2.8	≤4.7/2.8	≤5.0/3.0									
	30/70		≤5.7/1.9	≤6.0/2.0	≤5.7/1.9	≤6.0/2.0	≤6.0/2.0	≤6.3/2.4									
	20/80		≤7.6/1.25	≤8.0/1.3	≤7.6/1.25	≤8.0/1.3	≤8.0/1.3	≤8.1/1.7									
	10/90		≤9.55-10.65/0.65	≤9.3-10.9/0.8	≤9.55-10.65/0.65	≤9.3-10.9/0.8	≤9.3-10.9/0.8	≤11.6/1.2									
	5/95		≤12.4-13.8/0.4	≤12.1-14.1/0.5	≤12.4-13.8/0.4	≤12.1-14.1/0.5	≤12.1-14.1/0.5	≤15.1/1.0									
	3/97		≤14.5-16.15/0.3	≤14.15-16.5/0.4	≤14.5-16.15/0.3	≤14.15-16.5/0.4	≤14.15-16.5/0.4	≤14.15-16.5									
	2/98		≤16.1-18.05/0.25	≤15.7-18.45/0.35	≤16.1-18.05/0.25	≤15.7-18.45/0.35	≤15.7-18.45/0.35	≤19.4/0.9									
	1/99		≤19.05-21.15/0.2	≤18.55-21.65/0.3	≤19.05-21.15/0.2	≤18.55-21.65/0.3	≤18.55-21.65/0.3	≤22.8/0.8									
PDL		Max	dB	≤0.1		≤0.15		≤0.15		≤0.2		≤0.2		≤0.15			
Directivity		Max	dB	≥55													
Operating Temperature		℃		-40~+85													
Storage Temperature		℃		-40~+85													
Dimension(L x W x H)		mm		482x200x45						482x200x89							
Remark:																	
The above parameters do not include connectors;																	
If connectors are added,the insertion loss will increase 0.2dB each.																	

Configuration	1x2 or 2x2		
Fiber length	1.5m,other on request		
Fiber Type	250 μ m bare fiber	900 μ m loss tube	900 μ m loss tube,2mm cable,3mm cable
Insertion Loss	Φ 3.0x54mm	Φ 3.0x54mm	90x14x8.5mm
	Φ 3.0x45mm		