

ABS Module FBT Couplers Splitters, Single Mode

Data Center & Cloud Computing Infrastruture Solutions



Overview

ABS module FBT spliitter is based on Fused Biconical Taper (FBT) technology to combine or distribute light from single inputs to single outputs bi-directionally. It's designed for power splitting and tapping in telecommunication equipment, CATV network, and test equipment.

FBT splitter can be customized in a variety of styles, sizes, port configurations, split values, and wavelength specifications in ABS module to suit your precise requirements and application.

Features

- · Low insertion loss
- · Low PDL (Polarization Dependent Loss)
- · Compact design
- Exceptional reliability and stability
- Wide operating temperature: from -40° C to 85° C
- · Conformed to RoHS certificate

Application

- FTTX System
- · LAN, WAN and Metro Network
- Analog/Digital Passive Optical Network



Technical Specification

Parameter		Description	
Configuration		1× 2/ 2× 2	
Туре	Single window	Dual window	Three window
Operating Wavalength	1310nm or 1550nm	1310/1490nm or 1490/1550nm or 1310/1550nm	1310/1490/1550nm
Operating Bandwidth	± 40nm ± 40nm ± 2		± 20nm
Insertion Loss* (50/50)	3.4dB	3.4dB 3.6dB	
Insertion Loss (10/90)	11dB/0.65dB 9.20-11dB/0.75dB		0.75dB
Insertion Loss (5/95)	14.2dB/0.4dB 12.05-14.14dB/0.4dB		dB/0.4dB
Insertion Loss (1/99)	21.5dB/0.2dB 18.6-21.6dB/0.25dB		5/0.25dB
PDL	≤ 0.1dB	≤ 0.15	dB
Return Loss		≥ 50 dB	
Directivity		≥ 55 dB	
Operating Temperature		-40°C ~ +85°C	
Storage Temperature	-40°C ~ +85°C		
Fiber Length	0.5m/1m/1.5m		
Fiber Diameter	0.9mm/2mm/3mm		
Connector Type	LC/SC/FC-UPC/APC, None		
Housing		ABS module	
Dimensions (HxWxD)	100x80x10mm/90x20x10mm		
Grade Type	Р		
Quality Certification	RoSH		

^{*} Note: 1. Above specifications are for devices without connectors. If the device is with connectors, an additional 0.3dB to the insertion loss will be added, and the return loss will be reduced by 5dB.

^{2.} Only the popular fiber configurations and coupling ratios are listed. For more parameters, please contact our account manager.



Technical Specification

Parameter	Description			
Configuration	1×	3	3x	3
Туре	Single window	Dual window	Single window	Dual window
Operating Wavalength	1310 or 1550nm	1310 and 1550nm	1310 or 1550nm	1310 and 1550nm
Operating Bandwidth	± 40nm	± 40nm	± 15nm	± 40nm
Insertion Loss *(50/50)	≤ 5.4dB	≤ 5.8dB	≤ 5.6dB	≤ 5.8dB
PDL	≤ 0.15 dB	≤ 0.25 dB	≤ 0.25 dB	≤ 0.25 dB
Uniformity Loss	≤ 0.8 dB	≤ 1.2 dB	≤1dB	≤ 1.3 dB
Return Loss	≥ 50 dB			
Directivity	≥ 55 dB			
Operating Temperature	-40°C ~ +85°C			
Storage Temperature	-40°C ~ +85°C			
Fiber Length	0.5m/1m/1.5m			
Fiber Diameter	0.9mm/2mm/3mm			
Connector Type	LC/SC/FC-UPC/APC, None			
Housing	ABS module			
Dimensions (HxWxD)	100x80x10mm/90x20x10mm			
Grade Type	Р			
Quality Certification	RoSH			

^{*} Note: 1. Above specifications are for devices without connectors. If the device is with connectors, an additional 0.3dB to the insertion loss will be added, and the return loss will be reduced by 5dB.

^{2.} Only the popular fiber configurations are listed. For more parameters, please contact our account manager.



Technical Specification

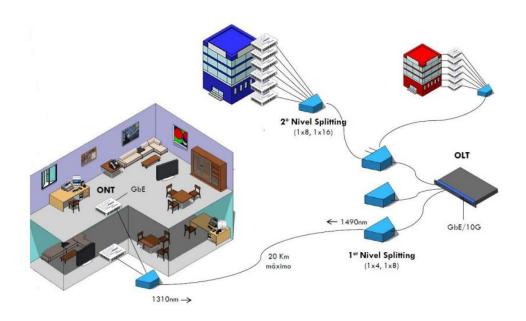
Parameter		Description	
Configuration		1× 4	
Туре	Single window	Dual window	
Operating Wavalength	1310 or 1550nm	1310 and 1550nm	
Operating Bandwidth	± 40nm	± 40nm	
Coupler Radio *	50/50	50/50	
Insertion Loss *	≤ 6.8dB ≤ 7.2dB		
PDL	≤ 0.2 dB	≤ 0.3 dB	
Uniformity Loss	≤1dB	≤ 1.2dB	
Return Loss		≥ 50 dB	
Directivity		≥ 55 dB	
Operating Temperature		-40°C ~ +85°C	
Storage Temperature	-40°C ~ +85°C		
Fiber Length	0.5m/1m/1.5m		
Fiber Diameter	0.9mm/2mm/3mm		
Connector Type	LC/SC/FC-UPC/APC, None		
Housing	ABS module		
Dimensions (HxWxD)	100x80x10mm/90x20x10mm		
Grade Type	Р		
Quality Certification	RoSH		

^{*} Note: 1. Above specifications are for devices without connectors. If the device is with connectors, an additional 0.3dB to the insertion loss will be added, and the return loss will be reduced by 5dB.

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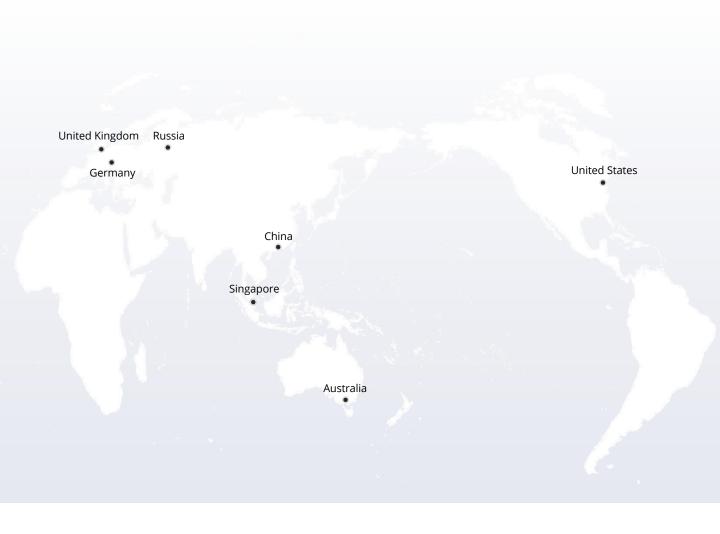
Applications Configuration Diagram



FBT Splitters Series

Туре	ID#	Description
	Sir	ngle Mode FBT Coupler Splitters
Steel Tube	<u>#21045</u>	1x2 Single Mode Dual Window FBT 900μm Coupler Splitter, FC/APC
Steel Tube	<u>#65799</u>	MxN Single Mode 250μm Steel Tube FBT Couplers Splitters, Unconnectorized
Steel Tube	<u>#65798</u>	MxN Single Mode 900μm Steel Tube FBT Couplers Splitters, LC/SC/FC
ABS Module	<u>#65800</u>	MxN Single Mode ABS Module FBT Couplers Splitters, LC/SC/FC
	M	lultiMode FBT Coupler Splitters
Steel Tube	<u>#65801</u>	1x2 Multimode Steel Tube FBT Couplers Splitters, Unconnectorized/LC/SC/FC
ABS Module	<u>#65803</u>	1xN Multimode ABS FBT Couplers Splitters, LC/SC/FC









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