

1x2 FBT Coupler Splitter, Single Mode, Dual Window, FC/APC

Data Center & Cloud Computing Infrastructure Solutions



Overview

Based on Fused Biconical Taper (FBT) technology, 1x2 dual window single mode FBT splitter is used 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 splitters can be customized in a variety of styles, sizes, port configurations, split values, and wavelength specifications, allowing a high degree of flexibility in tailoring the product 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: $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$
- Conformed to RoHS certificate

Application

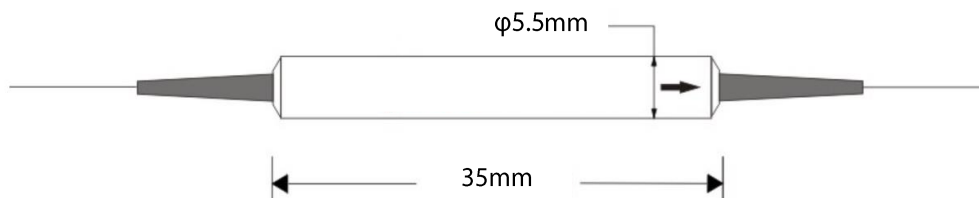
- FTTX system
- LAN, WAN and metro network
- Analog/Digital passive optical network
- Other applications in fiber optic system

Technical Specification

Parameter	Description
Fiber Configuration	1x2
Type	Dual Window
Operating Wavelength	1310nm/1550nm
Band Width	± 15nm
Coupling Ratio	50/50
Insertion Loss *	≤ 3.60dB
PDL	≤ 0.15dB
Return Loss	≥ 55.00dB
Typical Excess Loss	≤ 0.01dB
Operating Temperature	-40°C ~ +85°C
Storage Temperature	-40°C ~ +85°C
Input/Output Fiber Length	1.00(± 0.10)
Fiber Type	9/125μm (Single Mode)
Fiber Diameter	0.9mm
Connector Type	FC/APC
Packaging	Steel Tube
Grade Type	P
Quality Certification	RoHS

* Note: If the device is with connectors, an additional 0.3dB to the insertion loss will be added.

Dimension



FBT Splitters Series

Type	ID#	Description
Single Mode FBT Coupler Splitters		
Steel Tube	#21045	1x2 Single Mode Dual Window FBT 900µm Coupler Splitter, FC/APC
Steel Tube	#65799	MxN Single Mode 250µm Steel Tube FBT Couplers Splitters, Unconnectorized
Steel Tube	#65798	MxN Single Mode 900µm Steel Tube FBT Couplers Splitters, LC/SC/FC
ABS Module	#65800	MxN Single Mode ABS Module FBT Couplers Splitters, LC/SC/FC
MultiMode FBT Coupler Splitters		
Steel Tube	#65801	1x2 Multimode Steel Tube FBT Couplers Splitters, Unconnectorized/LC/SC/FC
ABS Module	#65803	1xN Multimode ABS FBT Couplers Splitters, LC/SC/FC



 <https://www.fs.com>



The information in this document is subject to change without notice. FS has made all efforts to ensure the accuracy of the information, but all information in this document does not constitute any kind of warranty.