ACCELINK

MAKE YOUR OPTICAL NETWORKS MORE RELIABLE

Single Mode Broadband Fiber Coupler

Single mode broadband fiber couplers are designed for splitting light with minimal loss from one into two fibers or to combine light from two fibers into one fiber. Accelink offers both single-window and dual-window broadband couplers.
The products are Telcordia GR-1209-CORE qualified, and RoHS compliant.

Applications

Telecommunications
CATV network
Access network
Optical amplifier

Features

Wide bandwidth
Low excess Loss

Specifications

Parameter	Unit	Value		
Wavelength	nm	C or L	1310±40	1310±40&1550±40
Splitter Ratio		1/99~50/50		
Fiber Type		SMF-28		
Return Loss	dB	>50		
Directivity	dB	>55		
PDL	dB	<0.1		<0.15
Operation Temperature	°C	-10~+70		
Storage Temperature	°C	-40~+85		

Insertion Loss Table

	C or L		1310±40		1310±40&1550±40	
Splitter Ratio	Tap	Signal	Tap	Signal	Tap	Signal
1/99	19.0~21.0	≤0.20	18.2~21.0	≤0.20	18.0~22.0	≤0.25
3/97	14.6~16.2	≤0.30	14.4~16.4	≤0.30	14.0~16.6	≤0.35
5/95	12.4~13.8	≤0.35	12.4~14.0	≤0.35	11.8~14.5	≤0.45
10/90	9.60~10.8	≤0.60	9.40~11.0	≤0.60	9.60~11.3	≤0.60
20/80	6.60~7.60	≤1.15	6.30~7.80	≤1.15	6.50~7.80	≤1.20
30/70	5.00~5.50	≤1.75	4.60~5.75	≤1.75	4.70~6.50	≤1.90
40/60	3.95~4.30	≤2.50	3.85~4.40	≤2.50	3.60~4.70	≤2.70
50/50	2.80~3.30		2.70~3.40		2.70~3.50	

Notes :All insertion loss don't include connector loss.

Package and Installation Dimension

	A[1]	B[2]	C1	C2	D	E
Package(mm)	Φ3×48	Φ3×55	100×18×9.2	90×16×9	100×80×7.2	130×90×15
Installation(mm)			65×12×4Φ2.4	50×9×2Φ3.2	60×76.2×4Φ3	124×84×4Φ3.5
Box material	SST Tube	SST Tube	Plastics	Metal	Plastics	Metal

Notes: 1. Type A is only for 0.25mm fiber. 2.Type B is for 0.9mm fiber.

Ordering Information

WBC – □ – □ – □ – □ – □ – □ – □ – □

Port	Wavelength	Splitter Ratio	Fiber Dia.	Fiber Length	Connector	Package
12:1×2 22:2×2	1310: 1310nm 1550: 1550nm 135: 1310/1550nm	01: 1:99 02: 2:98 ⋮ 50: 50:50	025:Φ0.25mm 09:Φ0.9mm 20:Φ2.0mm 30:Φ3.0mm	1:1.0m	FC,SC,LC,MU/UPC,APC	A , B , C1 , C2 , D , E