

Single Mode Broadband Fiber Coupler

MAKE YOUR
OPTICAL NETWORKS
MORE RELIABLE



Single mode broadband fiber couplers are used to split 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-1221-CORE qualified, and RoHS compliant.

Features

- Wide Bandwidth
- Low Excess Loss
- Excellent Performance
- High Stability and Reliability

Applications

- Telecommunications
- CATV Network
- Access Network
- Optical Amplifier

Specifications

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

Operation Wavelength	Insertion Loss					
	C or L		1310 ± 40		1310 ± 40&1550 ± 40	
Split 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	

Note: Insertion loss doesn't include connector loss, PDL and TDL.

Package and Installation Dimension

	A	B	C1	C2	D	E
Package(mm)	Φ 3 × 52 ¹	Φ 3.5 × 55 ²	100 × 18 × 9.2	90 × 16 × 9	100 × 80 × 7.2	130 × 90 × 15
Installation(mm)			65 × 12 × 4 Φ 2.4	50 × 9 × 2 Φ 3.2	60 × 76.2 × 4 Φ 3.0	124 × 84 × 4 Φ 3.5
Box Material	SST Tube	SST Tube	Plastics	Metal	Plastics	Metal

Note: 1, Type A is only for 0.25mm fiber. 2, Type B is for 0.9mm fiber. 3, Insertion loss doesn't include connector loss, PDL and TDL.

Ordering information

WBC	-		-		-		-		-		-	
Port	Wavelength	Couple Ratio	Fiber Dia.	Fiber Length	Connector	Package						
12:1×2 22:2×2	131: 1310nm 155: 1550nm 135: 1310&1550nm 159: L Band	01: 1:99 02: 2:98 50: 50:50	00 :adapter (only for package E) 025: Φ 0.25mm 09: Φ 0.9mm 30: Φ 3mm	00: adapter (only for package E) 1:1.0m customer specify	FC,SC,LC,MU/ PC,UPC,APC	Selected from the dimension table A,B,.....E						