

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.

Features

- Wide bandwidth
- Low excess

Applications

- Telecommunications
- CATV Networks
- Access network
- Optical amplifier

Specifications

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

Standards

- Telcordia GR-1209-CORE
- Telcordia GR-1221-CORE

	CorL		1310±40		1310±40&1550±40	
Splitter Ratio	Max IL (Tap)	Max IL (Signal)	Max IL (Tap)	Max IL (Signal)	Max IL (Tap)	Max IL (Signal)
1/99	20.8	0.25	20.8	0.25	21.0	0.25
2/98	17.8	0.30	17.8	0.30	17.9	0.30
3/97	16.0	0.35	16.0	0.35	16.0	0.35
5/95	13.8	0.45	13.8	0.45	14.0	0.45
10/90	10.8	0.7	10.8	0.7	10.9	0.7
15/85	8.9	1.0	8.9	1.0	9.0	1.1
20/80	7.7	1.3	7.7	1.3	7.7	1.3
25/75	6.7	1.6	6.7	1.6	6.7	1.7
30/70	5.8	1.9	5.8	1.9	5.8	2.0
33/67	5.4	2.1	5.4	2.1	5.4	2.1
35/65	5.2	2.3	5.2	2.3	5.2	2.3
40/60	4.6	2.7	4.6	2.7	4.6	2.7
45/55	4.0	3.1	4.0	3.1	4.0	3.1
50/50	3.5	3.5	3.5	3.5	3.5	3.5

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Package and Installation Dimension

	A	B	D	F	E(Adapter)
Package (mm)	ϕ 3×48	ϕ 3×55mm	100×80×7.2	100×80×10	130×90×15
Installation (mm)	SST Tube	SST Tube	60×76.2×4 ϕ 3.0	90×74×4 ϕ 3.5	124×84×4 ϕ 3.5

	C	G	J	M
Package (mm)	90×16×9 (Plastics)	130×90×14	133.5×96×18	150×110×19
Installation (mm)	49.9×9.3×2 ϕ 3.0	60×87×4 ϕ 3.0	128.5×90×4 ϕ 3.0	145×105×4 ϕ 3.5

	LGX		11	12
Package (mm)	129×158×28 (1U)	129×158×58 (2U)	482×230×44	482×202×88

Ordering Information

WBC -□-□-□-□-□-□-□

Package: A,B,C,D,E,F,G,J,M,LGX,11,12...

Connector: SC, FC, LC, MU/PC, UPC, APC

Fiber Length: 00:adapter; 1:1m; customer specify

Fiber Dia.: 00:adapter; 025:Φ0.25mm;
09:Φ0.9mm; 20:Φ2.0mm; 30:Φ3.0mm

Ratio: 01:1/99; 02:2/98; 50:50/50

Wavelength: 1310:1310nm; 1550:1550nm;

135:1310&1550nm; 1310/1490/1550:1310&1490&1550nm

Port: 12: 1×2; 22:2×2;

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