

Single Mode Broadband Fiber Coupler

Single Mode Broadband Fiber Coupler is used to split or combine signals between two or more fibers. It has single window, dual window and tri-window types. Using fused biconical taper technology, the device is designed and manufactured to meet Bellcore GR-1209-CORE requirements.



Features

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

Applications

- Telecommunications
- CATV Network
- Access Network
- Optical Instrument

Specifications

Item	Unit		Specifications			
			Single-Window		Dual-Window	
Center Wavelength	nm		1310 or 1550		1310 / 1550	
Operating Bandwidth	nm		±40		±40	
Grade			P	A	P	A
Excess Loss	dB		≦ 0.15	≦ 0.30	≦ 0.20	≦ 0.30
		Ratio				
Insertion Loss	dB	55/45	≦ 3.80/2.90	≦ 4.00/3.10	≦ 3.80/2.90	≦ 4.00/3.10
		60/40	≦ 4.40/2.60	≦ 4.60/2.80	≦ 4.40/2.60	≦ 4.60/2.80
		70/30	≦ 5.60/1.80	≦ 5.80/2.00	≦ 5.60/1.80	≦ 5.80/2.00
		80/20	≦ 7.50/1.30	≦ 7.70/1.50	≦ 7.50/1.30	≦ 7.70/1.50
		90/10	≦ 10.8/0.80	≦ 10.9/0.90	≦ 10.8/0.80	≦ 10.9/0.90
		95/05	≦ 0.40/13.6	≦ 0.50/13.8	≦ 0.40/13.6	≦ 0.60/13.8
		99/01	≦ 0.25/20.8	≦ 0.30/21.0	≦ 0.25/21.7	≦ 0.36/21.8
		50/50	≦ 3.30	≦ 3.60	≦ 3.40	≦ 3.60
Uniformity (For 50/50)	dB		≦ 0.50	≦ 0.80	≦ 0.50	≦ 0.80
PDL	dB		≦ 0.10	≦ 0.15	≦ 0.10	≦ 0.15
Directivity	dB		≧ 55	≧ 55	≧ 55	≧ 55
Operating Temperature	°C		0 to +70			
Storage Temperature	°C		-40 to +85			

Ordering Information

SMC-□-□-□-□-□-□-□

- Coupling Ratio: Customer Specified
- Connectors Type: FC/APC, FC/UPC, SC/APC, SC/UPC or others
- Fiber Length (Unit: M)
- Cable Type: 025:Φ0.25mm, 09:Φ0.9mm
- Grade: P: Premium, A: Grade A
- Wavelength: 131:1310nm, 155:1550nm (Single-window)
- 135:1310/1550nm (Dual-window), 345:1310/1490/1550nm (Tri-window)
- Type: 1:1×2, 2:2×2