

Single/Double Window Broadband Coupler



The single mode broadband fiber couplers include single-windows and dual-windows structures, the products are based on FBT technology, have excellent performance. The products meet the Telcordia GR-1209-CORE.

Features

- Low excellent
- Wide Bandwidth
- Excellent performance
- High Stability and reliability

Applications

- Optical Amplifier
- Telecommunication
- CATV Networks
- Access Networks

Specifications

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

* C band: 1528nm-1565nm L band: 1569nm-1605nm

Insertion Loss

Split Ratio	C or L		1310±40		1310±40 & 1550±40	
	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	12.2-14.0	≤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	

* All insertion loss don't include connector, PDL and TDL.