

Singlemode Wideband Coupler

Features

- Low insertion Loss
- Customized Package available
- Environmentally stable.

Applications

- Telecommunication networks
- LAN
- FTTH deployments
- Video transmission
- Fiber optic sensing
- Testing instruments
- Point to point system
- WAN



Specifications

ITEM		VALUE	
Operation Wavelength ,nm		1310nm±40 or 1550nm±40	
Grade		Supper(s)	High(H)
Typical Excess Loss ,dB		0.1	0.2
Uniformity, dB(50:50)		0.6	1
Thermal Stability ,dB(peak-peak)		≤0.2	≤0.3
Polarization Stability ,dB		≤0.1	≤0.15
Port Configuration		1×2 or 2×2	
Coupling Ratio		1 : 99 to 50 : 50, (50 : 50 standard)	
Insertion Loss ,dB		Refer to Coupling ratio vs. insertion Loss chart	
Directivity ,dB		≥ 50(1×2), ≥ 60(2×2)	
Reflectance ,dB		≥ 55	
Operation Temperature, °C		-40°C ~ 85°C	
Storage temperature, °C		-55°C ~ 85°C	
Package Options (for different pigtail)	1.coated fiber (250µm)	T5,MA,MB,M3	
	2.Loose tube (900µm)	TA,MA,MB,M3	
	3.PVC cable(3.0mm)	A1,MA,MB,M3	

Note: (*) -20°C ~ +70°C for PVC cable

Coupling Ratio (%)	Insertion Loss(dB)	
	Super Grade(S)	High Grade(H)
50/50	3.4	3.6
45/55	3.9/2.9	4.25/3.25
40/60	4.4/2.5	4.7/2.7
35/65	5.1/2.2	5.45/2.4
30/70	5.8/1.9	6.0/1.9
25/75	6.7/1.6	7.05/1.7
20/80	7.6/1.1	7.9/1.2
15/85	9/0.96	10.46/1.05
10/90	11/0.63	12.9/0.8
5/95	14.6/0.4	18.4/0.5
1/99	21.6/0.3	21.6/0.4

