

Standard Singlemode 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±10 or 1550nm±10	
Grade	Supper(s)	High(H)
Typical Excess Loss ,dB	0.06	0.15
Uniformity, dB(50:50)	0.5	0.9
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 (250 μ m)	T5,MA,MB,M3
	2.Loose tube (900 μ m)	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
40/60	4.4/2.5	4.7/2.8
30/70	5.7/1.8	6.0/2.0
20/80	7.5/1.2	8.0/1.4
10/90	10.8/0.7	11.5/0.9
5/95	14.6/0.4	15.5/0.6
1/99	21.6/0.2	22.0/0.3

Standard Singlemode Coupler Ordering information

CO-SM XX/XX XX XX X X XX XX XXX(cm)

Connector(for both ends)

- 11-ST
- 21-FC/PC
- 22-FC/APC
- 31-SC/PC
- 32-SC/APC
- 41-LC/PC
- 51-MU/PC
- 00-None
- XX-Others

Wavelength

- 31-1310 nm
- 55-1550 nm
- XX-Others

Package option(for both ends)

- 01-T5 with coated fiber
- 02-MA/MB with coated fiber
- 11-TA with loose tube cable
- 12-MA/MB/M3 with loose tube cable
- 21-A1 with PVC cable(2.0mm)
- 31-A1 with PVC cable(3.0mm)
- 32-MA/MB/M3 with PVC cable(3.0mm)
- 33-MA/MB/M3 with adapters
- XX-Others

Pigtail length (for each port)

- 050- 50cm
- 100- 100cm
- 150- 150cm
- 200- 200cm
- 000- Modulized
- XXX-Others

Coupling ratio

00 ~ 50 please specify

Port number

- 12- 1 x 2
- 22- 2 x 2

Fiber type

- A- Corning SMF-28e
- D-Dispersion-shift fiber
- X-Others

Grade

- S- Super
- H- High

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