

Optical Fiber Coupler

Features & Benefits

- Low Excess Loss
- Low PDL
- High Stability and Reliability
- High Performance
- Good Uniformity

Applications

- Fiber Optic Telecommunication
- CATV
- LAN
- Test Equipment
- Passive Optical Network



Single Mode Fiber Coupler

Specification

Parameter	1X2 or 2X2		
Center Wavelength (nm)	1310 or 1550		
Wavelength Bandwidth (nm)	±10		
Grade	P	S	A
Max. Insertion Loss (dB) ¹	3.4	3.6	4.3
Typical Excess Loss (dB)	0.07	0.1	0.15
Uniformity (dB)	0.6	1.0	1.8
Directivity (dB)	50		
PDL (dB)	0.1	0.15	0.15
Operation Temperature (°C)	-40 ~ 85		
Storage Temperature (°C)	-50 ~ 85		
Package Dimension(mm)	S=Ø3.0X54 L=Ø3.0X65 L.R=85X17.5X6.5		

1) without connector

Coupling Ratio vs Insertion Loss

Coupling Ratio	Insertion Loss (dB)		
	P	S	A
40/60	4.4/2.5	4.8/2.8	5.3/3.1
30/70	5.6/1.8	6.1/2.0	6.8/2.3
20/80	7.4/1.1	8.0/1.3	8.7/1.5
10/90	10.8/0.6	12.0/0.8	13.3/1.0
5/95	14.6/0.4	18.4/0.5	20.0/0.8
1/99	21.5/0.2	22.0/0.3	24.0/0.6

Single Mode Single Window Broadband Coupler

Specification

Parameter	1X2 or 2X2		
Center Wavelength (nm)	1310 or 1550		
Wavelength Bandwidth (nm)	±40		
Grade	P	S	A
Max. Insertion Loss (dB) ¹	3.4	3.6	4.6
Typical Excess Loss (dB)	0.07	0.1	0.15
Uniformity (dB)	0.6	1.0	2.0
Directivity (dB)	50		
PDL (dB)	0.1	0.15	0.15
Operation Temperature (°C)	-40 ~ 85		
Storage Temperature (°C)	-50 ~ 85		
Package Dimension(mm)	S=Ø3.0X54 L=Ø3.0X65 L.R=85X17.5X6.5		

1) without connector

Coupling Ratio vs Insertion Loss

Coupling Ratio	Insertion Loss (dB)		
	P	S	A
40/60	4.4/2.5	4.8/2.8	5.6/3.4
30/70	5.6/1.8	6.1/2.0	7.0/2.5
20/80	7.4/1.1	8.0/1.3	8.9/1.7
10/90	10.8/0.6	12.0/0.8	13.3/1.2
5/95	14.6/0.4	18.4/0.5	20.0/1.0
1/99	21.5/0.2	22.0/0.3	24.0/0.8