



SM Coupler

FBT Coupler Series

1x2 / 2x2 Wide Band Coupler

Performance Specification (Wideband)

Parameters	A	P	S
Wavelength	1310nm or 1550nm ±40nm		
Operating Temperature	-40°C to +85°C		
Storage Temperature	-40°C to +85°C		
Temp. Coefficient (dB/ °C)	≤0.002		
Directivity	≥55dB 1x2 ≥60dB 2x2		
Return Loss	≥55dB		
Uniformity (50/50)	≤0.5dB	≤0.6dB	≤0.8dB
Polarization Dependent Loss	≤0.1dB	≤0.1dB	≤0.15dB
Typical Excess Loss	≤0.1dB	≤0.15dB	≤0.2dB
Package Dimension (mm)	250• m Fiber : 3.0(OD)x55(L)		900• m Loose Tube:3.0(OD)x60(L) Ruggedized :100(L)x12(W)x8(H)

*Performance Specification Without Connector

Coupling Ratio / Insertion Loss (Wideband)

Coupling Ratio	A	P	S
50/50	3.3/3.3	3.4/3.4	3.6/3.6
45/55	3.8/2.9	3.9/3.0	4.2/3.2
40/60	4.3/2.5	4.4/2.5	4.8/2.8
35/65	4.8/2.2	4.9/2.3	5.4/2.4
30/70	5.5/1.75	5.6/1.8	6.1/2.0
25/75	6.3/1.5	6.4/1.6	6.8/1.8
20/80	7.4/1.1	7.5/1.2	8.0/1.3
15/85	8.5/0.95	8.6/1.1	9.0/1.3
10/90	10.8/0.6	11.5/0.6	12.0/0.8
5/95	14.0/0.4	14.6/0.4	18.4/0.5
2/98	18.0/0.2	19.0/0.2	20.0/0.3
1/99	21.0/0.2	21.5/0.2	22.0/0.3

*Performance Specification Without Connector

Ordering Information

