

FBT COUPLER

Three Window Wideband Coupler

Specifications (Based on 50/50)

Parameter	Premium	A grade
Operating Wavelength Range	1260-1360 nm, 1480-1500 nm, 1535-1570 nm	
Insertion Loss	≤ 3.6 dB	≤ 3.8 dB
Uniformity	≤ 0.7 dB	≤ 1.0 dB
Return Loss	≥ 55 dB (1x2) ≥ 65 dB (2x2)	
PDL	≤ 0.15 dB	≤ 0.2 dB
TDL	≤ 0.2 dB (-10° C ~ +75° C) ≤ 0.35 dB (-40° C ~ +85° C)	
Operating & Storage Temperature	-40° C ~ +85° C	
Package Dimensions	Light Duty (B)	3.0mm (Φ) x 55.0mm (L)
	Medium Duty (L)	3.0mm (Φ) x 60.0mm (L)
	Heavy Duty (K, R)	100.0 mm x 12.0 mm x 8.0 mm

Tap Coupler

Coupling Ratio	Premium	A Grade
40/60	4.7 / 2.7 dB	5.0 / 2.5 dB
30/70	6.0 / 1.9 dB	6.4 / 2.2 dB
20/80	7.9 / 1.2 dB	8.5 / 1.4 dB
10/90	11.3 / 0.6 dB	12.7 / 0.8 dB
5/95	15.0 / 0.4 dB	16.0 / 0.5 dB
1/99	23.5 / 0.3 dB	25.0 / 0.4 dB

Tree Coupler

Port #	Max IL		Uniformity	
	Premium	A Grade	Premium	A Grade
1 x 4	7.2 dB	7.6 dB	1.3 dB	1.8 dB
1 x 8	11.0 dB	11.3 dB	2.0 dB	2.4 dB
1 x 16	14.4 dB	15.2 dB	2.7 dB	3.2 dB
1 x 32	18.1 dB	19.0 dB	3.4 dB	4.2 dB

* Other port numbers upon request

Note1: All values specified are without connectors.

Note2: Higher performance specifications upon request.

Note3: Fiber type Corning SMF-28e.

Order Information

T W C

Port Number	Grade	Coupling Ratio	Fiber Length	Pigtail Style	Connector				
12: 1 x 2	P: Premium	xy%:xy%	1: 1 meter	(=Package style)	0: None	7: LC/UPC			
14: 1 x 4	A: A Grade		2: 2 meter	B: bare fiber	1: FC/PC	8: LC/SPC			
18: 1 x 8			S: Special	L: 900 μm loose tube	2: FC/APC	9: Special			
16: 1 x 16				K: 2 mm cable	3: SC/PC	A: FC/UPC			
32: 1 x 32				R: 3 mm cable	4: SC/APC	B: SC/UPC			
					5: FC/SPC	C: ST			
					6: SC/SPC				