

# FBT COUPLER

## Dual Window Wideband Coupler

### Specifications (Based on 50/50)

Parameter	Premium	A Grade
Operating Wavelength Range	1310 ± 40 nm & 1550 nm ± 40 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	≤ 0.20 dB
TDL	≤ 0.2dB	
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 )	100.0mm x 12.0mm x 8.0mm

#### Tap Coupler

Coupling Ratio	Max Insertion Loss	
	Premium	A Grade
40/60	4.7/2.7 dB	5.0/2.9 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	24.0/0.4 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

\*Other port numbers upon request.

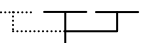
Note1: All values specified are without connectors.

Note2: Higher performance specifications are available upon request.

Note3: Fiber Type – Corning SMF-28e.

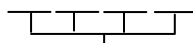
### Order Information

D W C -

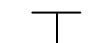


Port Number  
12: 1 x 2  
22: 2 x 2  
14: 1 x 4  
18: 1 x 8  
116: 1 x 16

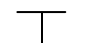
Grade  
P: Premium  
A: A Grade



Coupling Ratio  
xy % : xy %  
EVEN: even split



Fiber Length  
1: 1 meter  
2: 2 meter  
S: Special



Pigtail Style  
(=Package style)  
B: bare fiber  
L: 900 μm loose tube  
K: 2mm cable  
R: 3mm cable



Connector  
0: None  
1: FC/PC  
2: FC/APC  
3: SC/PC  
4: SC/APC  
5: FC/SPC  
6: SC/SPC

7: LC/UPC  
8: LC/SPC  
9: Special  
A: FC/UPC  
B: SC/UPC  
C: ST