

# FBT COUPLER

## Dual Window Wideband Coupler

### Specifications: (Based on 50/50)

Parameter	Premium	A Grade
Operating Wavelength	1310 & 1550 nm $\pm$ 40 nm	
Insertion Loss (Max)	$\leq$ 3.6 dB	$\leq$ 3.8 dB
Uniformity (Typical)	$\leq$ 0.7 dB	$\leq$ 1.0 dB
Return Loss	1x2 $\geq$ 55 dB	2x2 $\geq$ 65 dB
PDL	$\leq$ 0.15 dB	$\leq$ 0.20 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 )	$\phi$ 3.0mm x 55.0mm
	Medium Duty ( L )	$\phi$ 3.0mm x 60.0mm
	Heavy Duty ( 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

Note1: All values specified are without connectors.

Note2: Higher performance specifications upon request.

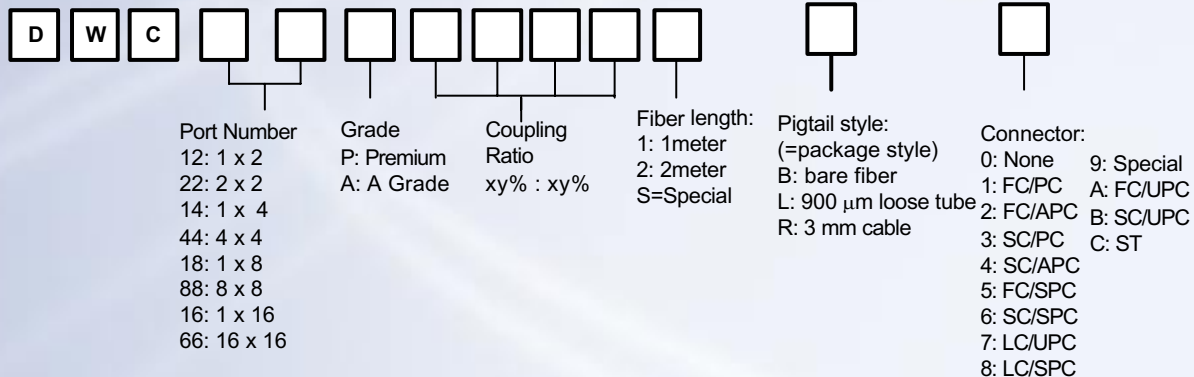
Note3: Fiber Type – Corning SMF-28

### Tree and Star 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
4 x 4	7.4 dB	7.9 dB	1.5 dB	2.2 dB
1 x 8	11.0 dB	11.3 dB	2.0 dB	2.4 dB
8 x 8	11.2 dB	11.8 dB	2.4 dB	3.0 dB
1 x 16	14.4 dB	15.2 dB	2.7 dB	3.2 dB
16 x 16	14.6 dB	15.6 dB	3.0 dB	3.8 dB

\* Other Port Numbers upon request.

### Order Information:



REVISION  
B

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