

## FBT Coupler

### Single Window Wideband Coupler

#### ➔ Specifications (50/50)

Parameter	Premium	A Grade
Operating Wavelength Range	Center Wavelength $\pm$ 40 nm	
Insertion Loss (Max)	$\leq$ 3.5 dB	$\leq$ 3.7 dB
Uniformity (Typical)	$\leq$ 0.5 dB	$\leq$ 0.7 dB
Return Loss	$\geq$ 55 dB (1x2) $\geq$ 65dB (2x2)	
PDL	$\leq$ 0.10 dB	$\leq$ 0.15 dB
TDL	$\leq$ 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	4.4/2.5 dB	4.8/2.8 dB
30/70	5.6/1.8 dB	6.1/2.0 dB
20/80	7.6/1.2 dB	8.0/1.3 dB
10/90	10.8/0.6 dB	12.0/0.8 dB
5/95	14.0/0.4 dB	14.5/0.5 dB
1/99	21.0/0.2 dB	21.5/0.3 dB

Note1: All values specified are without connectors.

Note2: Higher performance specifications are available upon request.



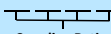


Note3: Fiber Type – Corning SMF-28e.

#### ➔ Tree Couplers

*Port #	Max IL		Uniformity	
	Premium	A Grade	Premium	A Grade
1 x 4	7.0 dB	7.4 dB	1.0 dB	1.4 dB
1 x 8	10.2 dB	10.8 dB	1.5 dB	1.8 dB
1 x 16	14.0 dB	14.8 dB	2.0 dB	2.8 dB

\*Other port numbers upon request.

#### ➔ Ordering Information

S	W	C					
							
			<b>Port Number</b>	<b>Grade</b>	<b>Coupling Ratio</b>	<b>Wavelength</b>	<b>Fiber Length</b>
			12: 1 x 2	P: Premium	xy % : xy %	E: 1310 nm	1: 1 meter
			22: 2 x 2	A: A Grade	EVEN: Even split	F: 1480 nm	2: 2 meter
			14: 1 x 4			G: 1510 nm	S: Special
			18: 1 x 8			H: 1550 nm	
			116: 1 x 16			L: 1625 nm	
							<b>Pigtail Style</b>
							(=Package style)
							B: bare fiber
							L: 900 μm loose tube
							K: 2mm cable
							R: 3mm cable
							<b>Connector</b>
							0: None
							7: LC/U/PC
							1: FC/PC
							8: LC/SPC
							2: FC/APC
							9: Special
							3: SC/PC
							A: FC/U/PC
							B: SC/U/PC
							4: SC/APC
							C: ST
							5: FC/SPC
							6: SC/SPC