Photonics-USA

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FBT Coupler

Dual Window Wideband Coupler

Specifications (Based on 50/50)

Parameter		Premium	A Grade
Operating Wavelength Range		1310 & 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.

Ordering Information

D W C - ____ ____ - ____ - ____ ____ ____ ____ - ____ ____ ____ ____ - ____ - _____ - _____

Port Number		Grade:	Coupling Ratio	Wavelength	Fiber Length	Pigtail Style (=Package style)	Connector	
12:	1 x 2	P: Premium	xy% : xy%	Example	1: 1 meter	B: Bare Fiber	0: None	7: LC/UPC
22:	2 x 2	A: A Grade	EVEN: even split	1950 = 1950nm	2: 2 meters	L: 900 µm loose tube	1: FC/PC	8: LC/SPC
14:	1 x 4				S: Special	K: 2mm cable	2: FC/APC	9: Special
18:	1 x 8					R: 3mm cable	3: SC/PC	A: FC/UPC
116:	1 x 16						4: SC/APC	B: SC/UPC
							5:FC/SPC	C: ST
							6: SC/SPC	