LIGHTEL
True Color Components

FBT Coupler

Compact Size Single Window Wideband Coupler

Specifications (50/50)

Parameter		Premium	A Grade
Operating Wavelength Range		1310 or 1550 ± 40 nm	
Insertion Loss (Max)		≤ 3.5 dB	≤ 3.7 dB
Uniformity (Typical)		≤ 0.5 dB	≤ 0.8 dB
Return Loss		≥ 55 dB (1x2) ≥65dB (2x2)	
PDL		≤ 0.10 dB	≤ 0.15 dB
TDL		≤ 0.2dB (-10°C ~ +75°C) ≤ 0.35dB (-40°C ~ +85°C)	
Operating & Storage Temperature		- 40° C ~ + 85° C	
Package Dimensions	Light Duty (B)	3.0mm (Φ) x 35.0mm (L)	
	Medium Duty (L)	3.0mm (Φ) x 45.0mm (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	7.4/1.1 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.

Ordering Information

S W C C – ___ – ___ – _____ – ___ – ___ – ___ – ___

Port Number
12: 1 x 2
22: 2 x 2

Grade
P: Premium
A: A Grade

Coupling Ratio
xy % : xy %

Wavelength
E: 1310 nm
H: 1550 nm

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

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