

Photonics-USA

4207 Tylers Creek Ln.
Kents General Store, VA 23084
DUNS#: 623879116
sales@photonics-usa.com

FBT COUPLER

2 μ m Single Window Coupler

➔ Specifications (50/50)

Parameter	Premium	A Grade
Operating Wavelength Range	See order information	
Band Pass	± 10 nm	
Insertion Loss (Max)	≤ 3.8 dB	≤ 4.0 dB
Uniformity (Typical)	≤ 0.7 dB	≤ 1.0 dB
Return Loss	≥ 55 dB	
PDL	≤ 0.10 dB	≤ 0.15 dB
Operating & Storage Temperature	$-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$	
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	6.4/2.1 dB
20/80	7.9/1.2 dB	8.5/1.4 dB
10/90	11.3/0.55 dB	12.7/0.8 dB
5/95	15.2/0.4 dB	18.5/0.5 dB
1/99	22.5/0.3 dB	23.0/0.4 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	2.5 dB
1 x 16	14.4 dB	15.2 dB	2.7 dB	3.5 dB

* Other Port Numbers upon request

Note1: All values specified are without connectors.

Note2: Higher performance specifications are available upon request.

➔ Ordering Information

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