

Fused Biconical Taper (FBT) Splitter



Features & Benefits

- Reliable and cost effective all-fiber technology
- Bidirectional
- Ultra-broadband 1260-1650nm
- Different splitting ratios
- Low insertion loss
- High uniformity and return loss
- High stability to temperature variations



Overview

PPC high performance Fused Biconical Taper (FBT) splitters are used to split light from one fiber into multiple output fiber lines or to combine light from two fibers into one. They operate over the full standard single mode range of wavelengths (1260-1650nm) and are available in 1x2 and 2x2 configurations and splitting ratios from 50:50 to 99:1.

Technical Data

Specification		Triple Wavelength		
Fiber Type		Single mode OS2 (G652D) or G657A1		
Wavelength (nm)		1310, 1490 & 1550		
Band		±20		
Grand		P	S	L
Insertion Loss (dB)	50/50%	3.6	3.8	3.8
	55/45%	3.1/4.0	3.3/4.2	3.3/4.2
	60/40%	2.6/4.6	2.8/4.8	2.8/4.8
	65/35%	2.2/5.2	2.4/5.4	2.4/5.4
	70/30%	1.9/5.8	2.1/6.0	2.1/6.0
	75/25%	1.7/6.6	1.9/6.8	1.9/6.8
	80/20%	1.3/7.6	1.5/7.8	1.5/7.8
	85/15%	1.0/9.0	1.2/9.2	1.2/9.2
	90/10%	0.8/11.1	1.0/11.3	1.0/11.3
	95/05%	0.5/14.2	0.7/14.4	0.7/14.4
99/01%	0.3/22.4	0.5/22.6	0.5/22.6	
Uniformity (dB)	50/50%	0.7	0.8	0.8

* IL at 1490nm can increase by 0.2dB

Environmental Data

Specification	Value
Operating temperature	-40°C to 85°C
Free of halogen	Yes
2011/65/EC RoHS	Fully compliant

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Ordering Information

CP

3-4 5 6-7 8 9 10 11 12 13 14 15-17

<p>1 to 2 PRODUCT CP = FBT Coupler</p>	<p>6 to 7 CONFIGURATION 12 = 1:2</p>	<p>12 CONNECTOR OUT 1 = SC 2 = LC 3 = FC 4 = ST N = NO CONNECTOR (BLANK)</p>
<p>3 to 4 RATIO 50 = 50:50 45 = 55:45 40 = 60:40 35 = 65:35 30 = 70:30 25 = 75:25 20 = 80:20 15 = 85:15 10 = 90:10 05 = 95:05 01 = 99:01</p>	<p>8 PACKAGE L = LD (250UM) M = MD (900UM) H = HD (3MM)</p>	<p>13 POLISH TYPE A = APC U = UPC P = PC C = NO CONNECTOR (BLANK)</p>
<p>5 CATEGORY P = PREMIUM S = STANDARD L = LITE</p>	<p>9 TEST WAVE LENGTH T = TRIPLE 1310, 1490 & 1550 ± 20nm</p>	<p>14 FIBER TYPE S = G.652D A = G.657A1</p>
	<p>10 CONNECTOR IN 1 = SC 2 = LC 3 = FC 4 = ST N = NO CONNECTOR (BLANK)</p>	<p>15 TO 17 LENGTH 005 = 0.5MTR 010 = 1.0MTR</p>
	<p>11 POLISH TYPE A = APC U = UPC P = PC C = NO CONNECTOR (BLANK)</p>	