

FBT couplers

Features:

- used for division of signal's optical power
- as a monolithic device, available with 1x2, 2x2, 1x3 and 1x4 configurations
- available symmetric or asymmetric power division
- standard spectral operation range is 1310 ± 40 nm and 1550 ± 40 nm
- offered in MPP0-1 closure, fulfilling LGX standard

Technical specifications:

FBT couplers with equal splitting ratio				
configuration	1x2	2x2	1x3	1x4
splitting ratio	equal			
operating wavelength range [nm]	1310±40 1490±10 1550±40		1310±40 1550±40	
insertion loss typical/maximum [dB]	3,4/3,7		5,8/6,2	6,6/7,4
return loss [dB]	55			
directivity [dB]	55			
PDL [dB]	0,2	0,2	0,25	0,25
operating temperature [°C]	-40 ~ +85			
leads	250 µm primary coated fibre, 900 µm buffered fibre, 2 mm, 3 mm cable			
package dimensions	depend on the selected leads			

* Parameters in the above table are specified for unterminated device.

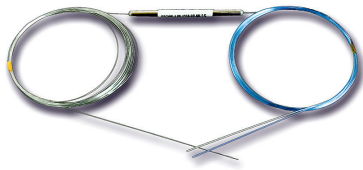
FBT couplers 1x2 asymmetric		
splitting ratio	maks. insertion loss [dB]	PDL
1/99	23,0/0,25	0,20/0,05
2/98	19,0/0,30	0,20/0,05
5/95	15,0/0,45	0,20/0,10
10/90	11,3/0,65	0,15/0,10
20/80	7,85/1,25	0,15/0,15
30/70	6,00/2,00	0,15/0,15
40/60	4,70/2,70	0,15/0,15

* Parameters in the above table are specified for unterminated device.

Ordering:

MPP0-1-2-1x2-SCA - two 1x2 FBT couplers in MPP0-1 LGX compatible module with 6 SC/APC adapters

SPL1x2/1316/900/SCA - 1x2 FBT coupler, equal splitting ratio, 1 m long SC/APC terminated 900 µm buffered fibre leads



FBT couplers with equal splitting ratio



FBT coupler with 2 mm cable leads



Two 1x2 FBT couplers in MPP0-1 module