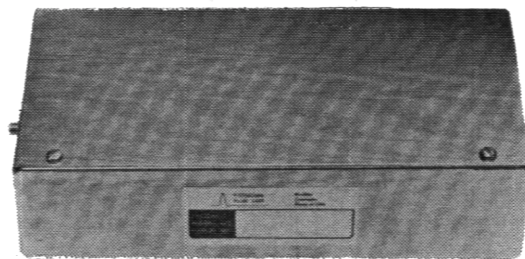
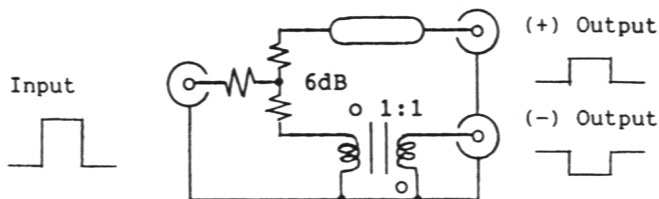




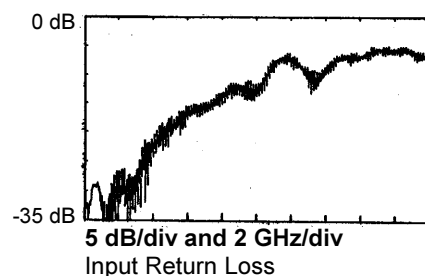
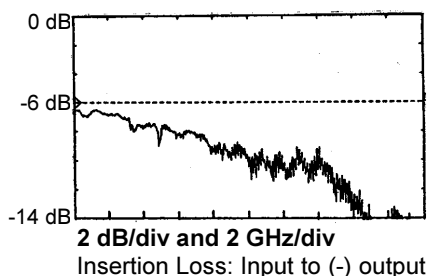
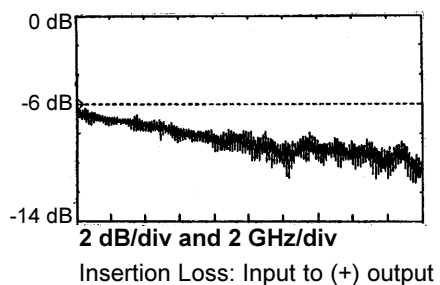
Model 5320B BALUN

Differential Pulse Splitter



The Model 5320B BALUN is a broadband differential pulse splitter. A signal fed into the 50 Ω input is split equally into two 50 Ω outputs. One output is the same polarity as the input, while the other output is inverted in polarity. The 5320B has a fast 31 ps risetime and a bandwidth from 5 kHz to 11 GHz. The 5320B can also be used as an algebraic differential signal combiner. All three ports are matched to 50 Ω . For additional details, see PSPL Application Note AN-8.

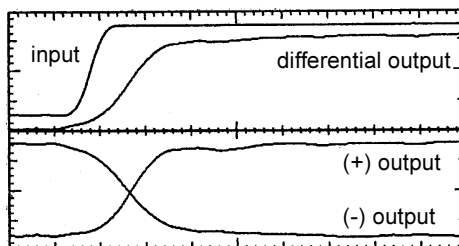
Risetime (10%-90%)	31 ps typical, 45 ps max.	Diff. Delay Balance	± 5 ps max.
Bandwidth (-3 dB)	11 GHz typical	Sag Time Constant	35 μ s (1/e)
Diff. Balance	< 0.2 dB, $t < 7$ ns 0.5 dB, $t > 7$ ns	Return Loss	0.1 < $f < 10$ GHz RL > 20 dB -1.5 dB/GHz*f(GHz)
Insertion Loss	6.5 dB nominal	Low Freq. Cutoff	5 kHz (-3 dB)
Impedance	50 Ω	Connectors	SMA jacks (f)
Refl. Coeff. (35 ps TDR) input (+) output (-) output	< 15% ptp, $t < 150$ ps -2%, $t > 7$ ns +3%, $t > 8$ ns -12%, $t > 1$ ns	Weight	2.7 lbs (1.2 kg)
Max. Input	0.75 Watts	Dimensions	2" x 4" x 8" (5.1 x 10.2 x 20.3 cm)
Delay	4.1 ns	Warranty	One year. See Terms and Conditions of Sale for details.



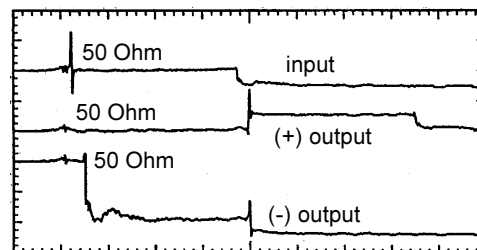
Ordering Information

Model Number

5320B-104



Risetime step into input port



Notes

[1] Parameters listed are typical values. Guaranteed only when max/min limits are given. [2] 10 ps risetime step response and TDR waveform measured using a PSPL Model 4015B pulse generator and an HP-54124A 50 GHz, 9.4 ps digital sampling oscilloscope. [3] Frequency response measured using a Wiltron 5447A 10 MHz - 20 GHz network analyzer.

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