

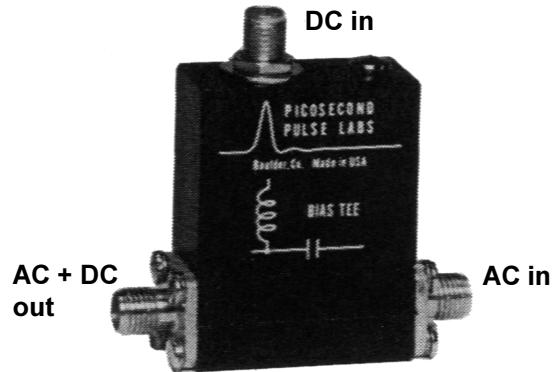


Model 5541A

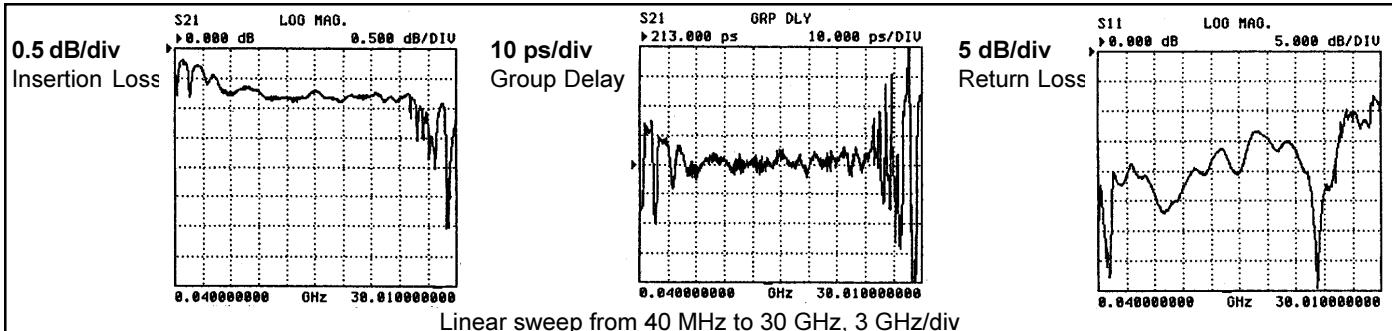
Bias Tee

- 80 kHz - 26 GHz
- 8 ps Risetime
- 50 V, 100 mA

The Model 5541A is a very broadband, coaxial bias insertion tee and DC blocking capacitor. It passes very fast rise pulses with a minimum of waveform distortion. Its risetime is only 8 ps. The frequency response is flat over many decades, and the -3 dB bandwidth extends from 80 kHz to beyond 26 GHz.

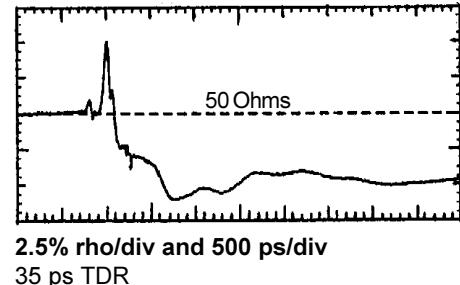
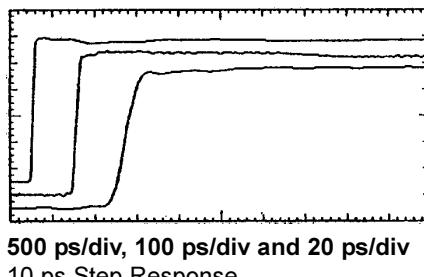


Risetime (10%-90%)	8 ps, 12 ps max.	DC Voltage	50 V max.
Bandwidth (-3 dB)	> 26 GHz [4]	Inductance	1 mH, $\pm 20\%$
Low Frequency (-3 dB)	80 kHz	DC Current	100 mA max.
Insertion Loss	0.4 dB, typical < 1 dB, f < 6 GHz < 1.5 dB, f < 20 GHz	Resistance	3.7 Ω
Impedance	50 Ω	RF Power	2 W average max.
Refl. Coeff. (35 ps TDR)	-5%, t > 1 ns	Isolation	> 40 dB typical
Return Loss	20 dB, f = 100 MHz > 15 dB, f < 10 GHz	Connectors	SMA jacks (f)
Delay	213 ps	Dimensions	5 x 1.3 x 4.6 cm (case) 3.1 x 1.3 x 3.8 cm
Capacitance	0.02 μ F, $\pm 20\%$	Warranty	One year. See Terms and Conditions of Sale for details



Ordering Information

Model Number
5541A-104



Notes

- [1] Parameters listed are typical values. They are guaranteed only when maximum and / or minimum limits are given.
[2] Not recommended for freq. domain applications above 26 GHz due to higher order waveguide mode resonances in SMA connectors.
[3] 10 ps risetime step response measured using a PSPL 4015C 15 ps pulse generator and HP54124A, 50 GHz oscilloscope.
[4] Frequency response measured using Wilttron model 37369A, 40 MHz-40 GHz network analyzer.

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