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Find the *Tektronix / Picosecond Pulse Labs 5541A-104* at our website: *Click HERE*

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, ±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 (AC Port)	**Isolation**	> 40 dB typical
Return Loss (AC Port)	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 µF, ±20%	**Warranty**	One year. See Terms and Conditions of Sale for details

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 Wiltron model 37369A, 40 MHz-40 GHz network analyzer.

Ordering Information

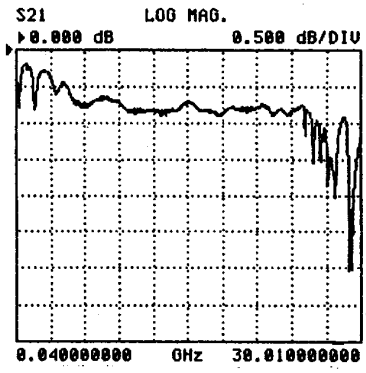
Model Number
5541A-104

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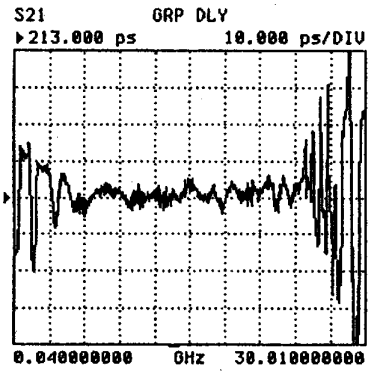
Picosecond Pulse Labs

Model 5541A
Bias Tee

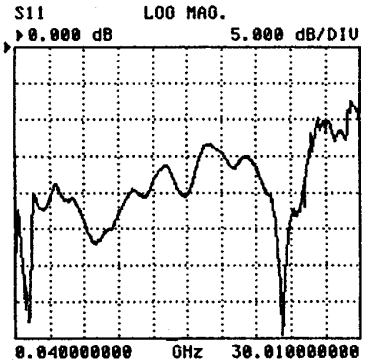
0.5 dB/div
Insertion Loss



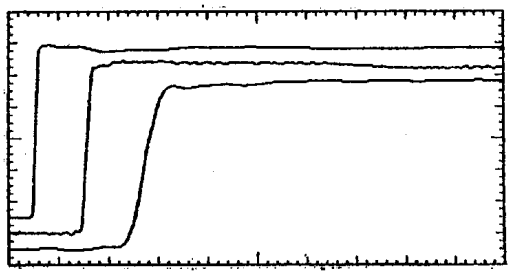
10 ps/div
Group Delay



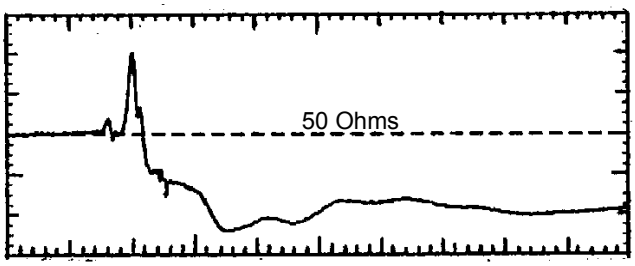
5 dB/div
Return Loss



Linear sweep from 40 MHz to 30 GHz, 3 GHz/div

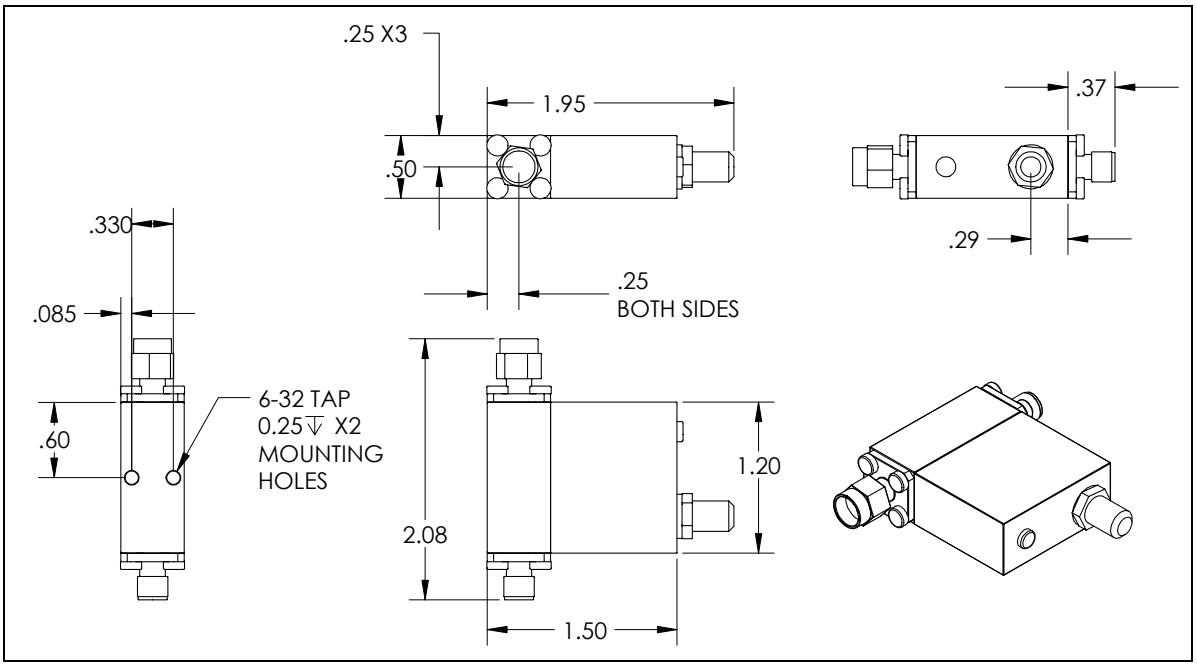


500 ps/div, 100 ps/div, 20 ps/div
10 ps Step Response



2.5% rho/div and 500 ps/div
35 ps TDR

5541A Mechanical Drawing



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