

- 65 kHz – 20 GHz
- 45 ps Risetime
- 50 V, 500mA

The Model 5545 Bias Tee and DC Block is a broadband, coaxial bias insertion tee and DC blocking capacitor. It passes fast rise pulses with a minimum of waveform distortion. Its risetime is 12 ps. The frequency response is flat over many decades, and the -3 dB bandwidth extends from 65 kHz to 20 GHz.

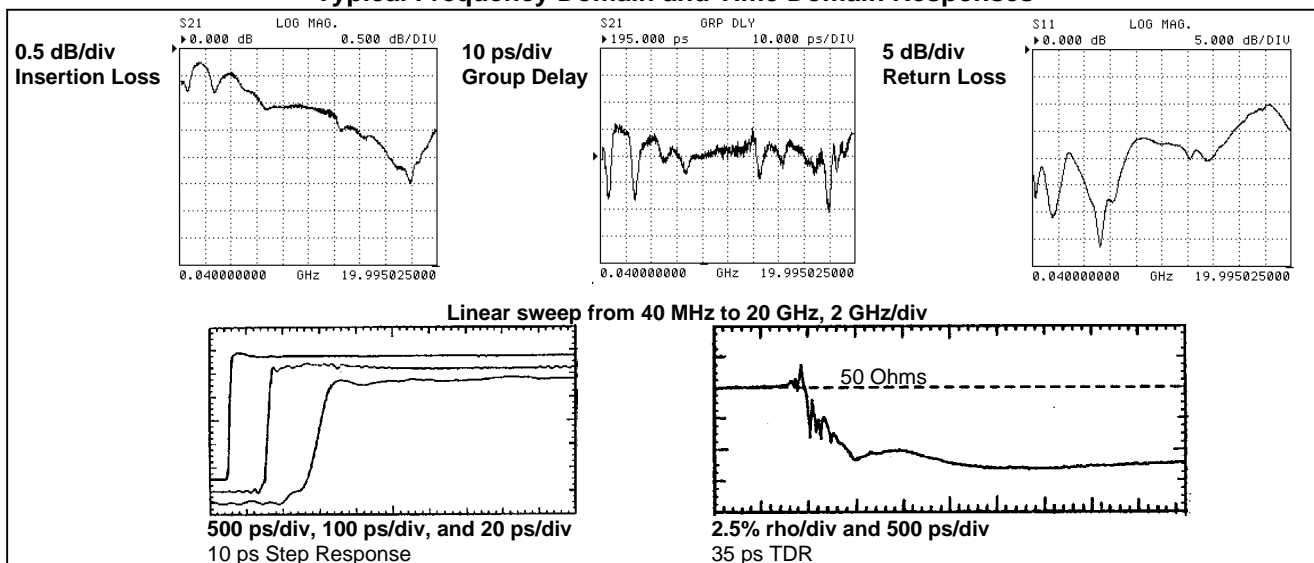


Risetime (10%-90%)	12 ps, 15 ps max.	Capacitance	0.03 μ F, \pm 20%
Bandwidth (-3 dB)	>20 GHz [2]	DC Voltage	50 V max.
Low Frequency (-3 dB)	65 kHz	Inductance	340 μ H, \pm 20%
Insertion Loss	0.7 dB, typical < 1 dB, f < 5 GHz < 1.5 dB, f < 12 GHz	DC Current	500 mA max.
		Resistance	1.1 Ω
		RF Power	2 W avg. max.
Impedance	50 Ω	DC Path Bandwidth	37 kHz typical
Return Loss	23 dB, f = 100 MHz >20 dB, f < 6 GHz >12 dB, f < 14 GHz	Delay	195 ps
		Dimensions	4.45 x 3.18 x 1.6 cm (case) 2.54 x 2.54 x 1.6 cm
Refl. Coeff. (35ps TDR)	-7%, t > 1 ns	Warranty	One year. See Terms and Conditions of Sale for details.
Isolation	>25 dB, typical		

Ordering Information

Model Number	Connector Configuration				Model Number	Connector Configuration			
	Type	AC	AC+DC	DC		Type	AC	AC+DC	DC
5545-107	SMA	jack (f)	jack (f)	SP	5545-119	SMA	plug (m)	jack (f)	SP
5545-108	SMA	jack (f)	jack (f)	SP	5545-120	SMA	jack (f)	jack (f)	SP
	with mounting plate					with mounting plate			
5545-114	SMA	jack (f)	plug (m)	SP	5545-122	SMA	plug (m)	plug (m)	SP

Typical Frequency Domain and Time Domain Responses



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 15 GHz due to higher order mode resonances.
- [3] 10 ps risetime step response measured using a PSPL Model 4015C 15 ps pulse generator and an HP-54124A, 50 GHz oscilloscope.
- [4] Frequency response measured using a Wiltron 37369A, 40 MHz - 40 GHz network analyzer.