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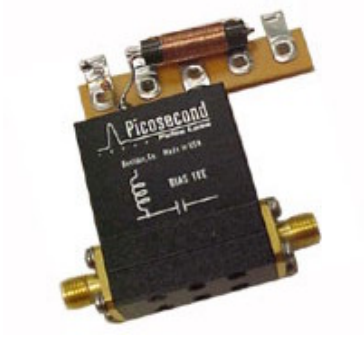
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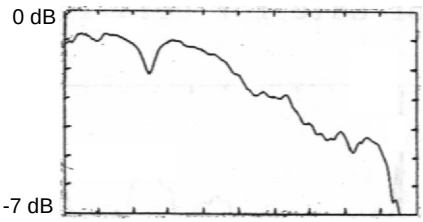
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MODEL 5580
BIAS TEE
PRODUCT SPECIFICATION

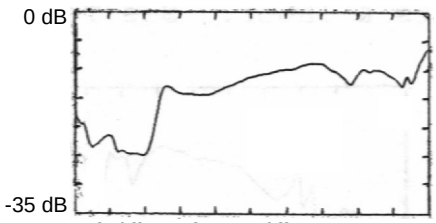


The Model 5580 is a broadband coaxial Bias Insertion Tee and DC blocking capacitor designed to pass fast rise pulses without waveform distortion. The risetime is 28 ps with a –3 dB bandwidth extending from 10 KHz to 15 GHz. The 5580-107 is designed to handle DC currents up to 1 Amp, and the 5580-128 is designed to handle DC currents up to 2 Amps. See notes [1-4].

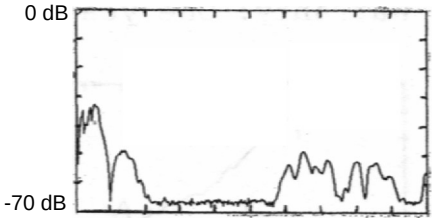
Risetime (10%-90%)	28 ps, 35 ps max.	**Inductance**	1.1 mH, ± 25%
Bandwidth (-3 dB)	15 GHz, 10 GHz min.	**DC Current**	1 Amp max. for –107 2 Amps max. for –128
Low Frequency (-3 dB)	10 kHz		
Insertion Loss (0.1 – 3 GHz)	1.0 dB, ±0.5 dB	**DC Resistance**	0.8 Ω
Impedance	50 Ω	**Capacitance**	0.22 µF, -50%, +80%
Refl. Coefficient (35 ps TDR)	±8%, t < 100 ps -13%, t > 100 ps	**CW RF Power**	2.5 W max.
		DC Path Bandwidth	9 kHz typical
Return Loss	0.1 < f < 10 GHz RL > 15 dB - 1 dB/GHz * f (GHz)	**Connectors**	SMA jacks (f) on AC and AC+DC wires to PC board and DC
Isolation (AC/DC)	> 30 dB	**Dimensions**	1.95" x 0.5" x 1.82" (5 x 1.3 x 4.6 cm) pc card 2.3" x 2.1" x 1.1"
DC Voltage	50 V max.		
Warranty	One year. See Terms and Conditions of Sale for details		



1 dB/div and 2 GHz/div
Insertion Loss



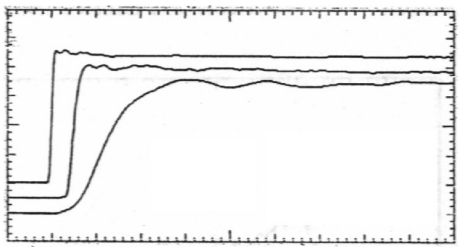
5 dB/div and 2 GHz/div
Return Loss



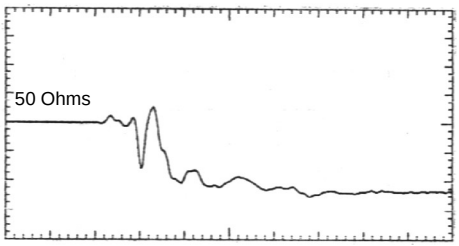
10 dB/div and 2 GHz/div
Isolation (AC-DC)

Ordering Information

Model Number	Option
5580-107	1A DC Current
5580-128	2A DC Current



20%/div. Top to bottom:
500 ps/div, 100 ps/div, and 20 ps/div
10 ps Step Response



5% rho/div and 200 ps/div
35 ps TDR of AC port

Notes

[1] Parameters listed are typical values. They are guaranteed only when maximum and / or minimum limits are given.

[2] 10 ps risetime step response 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.

[4] The 5580 consists of a coaxial unit and a separate pc board. These are hi-z circuits. To prevent undesired HF resonances, do not use coax or long wires. If the pc board is not used, the low frequency cut-off is 500 kHz.

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