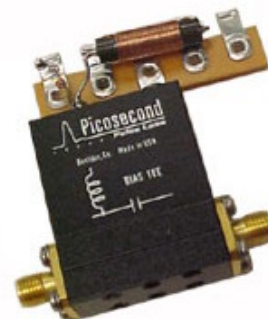
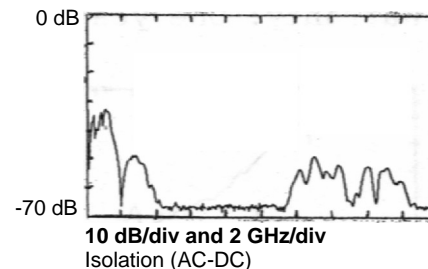
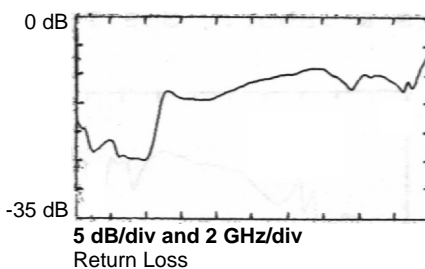
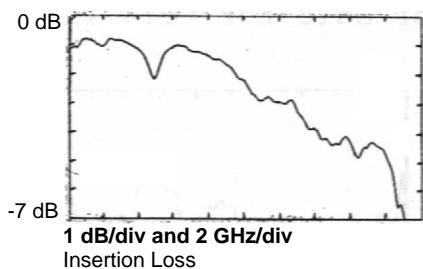


The Model 5580 is a broadband coaxial Bias Insertion Tee and DC blocking capacitor designed to pass fast rise pulses without waveform distortion. The risetime is 28 ps with a -3 dB bandwidth extending from 10 KHz to 15 GHz. The 5580-107 is designed to handle DC currents up to 1 Amp, and the 5580-128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

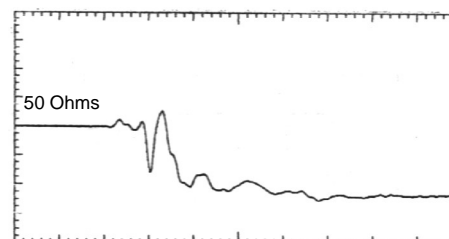
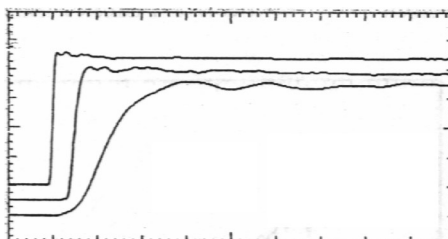


| | | | |
|--------------------------------------|--------------------------------------------------------|--------------------------|--------------------------------------------------------------------------|
| Risetime (10%-90%) | 28 ps, 35 ps max. | Inductance | 1.1 mH, ± 25% |
| Bandwidth (-3 dB) | 15 GHz, 10 GHz min. | DC Current | 1 Amp max. for -107 2 Amps max. for -128 |
| Low Frequency (-3 dB) | 10 kHz | DC Resistance | 0.8 Ω |
| Insertion Loss (0.1 – 3 GHz) | 1.0 dB, ±0.5 dB | Capacitance | 0.22 μF, -50%, +80% |
| Impedance | 50 Ω | CW RF Power | 2.5 W max. |
| Refl. Coefficient (35 ps TDR) | ±8%, t < 100 ps -13%, t > 100 ps | 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 | | |



Ordering Information

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



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.