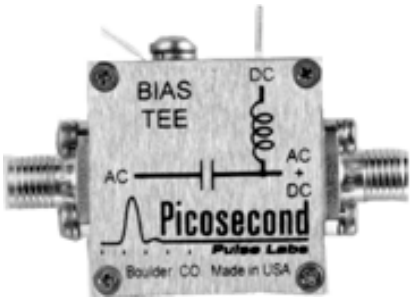
Model 5589
High Current Bias Tee



- **7 Amps**
- **100 V**
- **300 MHz to 2.8 GHz**

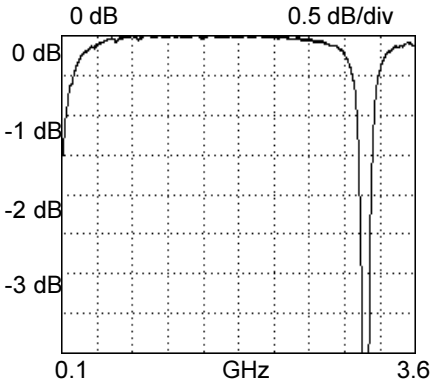
The 5589 High Current Bias Tee is intended for frequency domain, high current applications. It is capable of carrying up to 7 Amps of DC current. Unlike most high current bias tees that typically are specified for only an octave band, this bias tee covers a decade of frequency. The 5589 covers all of the major, popular wireless bands from 450 MHz to 2.5 GHz. This SMA bias tee is packaged in a small 1" x 1" x 5/8" metal module. The DC input is a solder terminal feed-thru capacitor.

Frequency Range (IL < 1 dB, RL > 10 dB) (IL < 0.5 dB, RL > 15 dB)	 **0.3 - 2.8 GHz** 0.45-2.6 GHz
Insertion Loss (mid-band)	0.05 dB, 1.5 GHz
Return Loss (mid-band)	> 25 dB
Isolation (AC to DC port) (in the pass-band)	> 50 dB
DC Current (max)	7 A
DC Voltage (max)	100 V
Resistance (DC)	0.015 Ω
Inductance	51 nH
Capacitance (DC block)	1 nF
Capacitance (by-pass)	22 nF
Connectors	SMA jacks (f) on AC and AC+DC; solder pin on DC
Temperature Range	-55 C to +125 C, storage and operating
Dimensions	4.45 x 3.18 x 1.6 cm (See mechanical drawing on page 2)
Warranty	One year. See Terms and Conditions of Sale for details

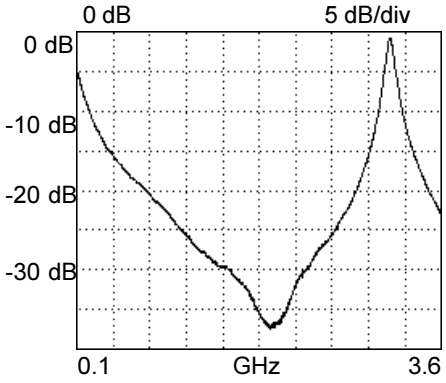
Ordering Information

Model Number
5589-107
5589-108 (with mounting plate)

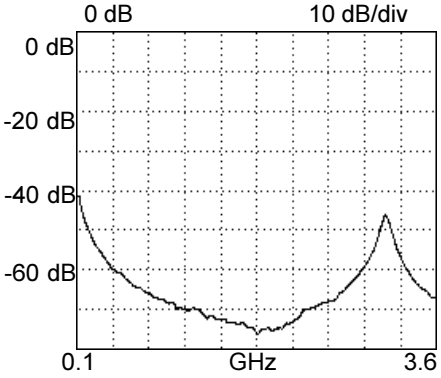
Insertion Loss, S_{21}



Return Loss, S_{11}



Isolation (AC to DC)



Frequency responses from 100 MHz to 3.6 GHz, 350 MHz/div.
Measured by a Wiltron 37369A 40 GHz network analyzer.

5589 Mechanical Drawing