

- 6 to 8 Amps
- 100 V
- Decade Bandwidths



The 5585 Series of High Current Bias Tees are intended for frequency domain, high current applications. They are capable of carrying up to 8 Amps of DC current. Unlike most high current bias tees that typically are specified for only an octave band, these bias tees typically cover a decade. Four models with overlapping bands are offered to cover frequencies from 200 MHz to 18 GHz. The Model 5589 covers all of the major, popular wireless bands from 450 MHz to 2.5 GHz. These SMA bias tees are packaged in a small 1" x 1" x 5/8" metal module. The DC input is a solder terminal feed-thru capacitor.

Model	5585	5586	5587	5589
Frequency Range (IL < 1 dB, RL > 10 dB) (IL < 0.5 dB, RL > 15 dB)	2 - 18 GHz 4 - 10 GHz	1 - 5 GHz 1.7 - 4.5 GHz	0.2 - 2 GHz 0.3 - 1.8 GHz	0.3 - 2.8 GHz 0.45-2.6 GHz
Insertion Loss	0.4 dB, 5 GHz	0.2 dB, 3 GHz	0.05 dB, 1 GHz	0.05 dB, 1.5 GHz
Impedance	50 Ohms	50 Ohms	50 Ohms	50 Ohms
Return Loss (mid-band) (AC Port)	20 dB	20 dB	> 30 dB	> 25 dB
Isolation (AC to DC port) (in the pass-band)	> 40 dB	> 40 dB	> 50 dB	> 50 dB
DC Current (max)	6 A	8 A	6 A	7 A
DC Voltage (max)	100 V	100 V	100 V	100 V
DC Path Bandwidth	2 MHz	275kHz	275kHz	275kHz
Resistance (DC)	0.01 Ohm	0.01 Ohm	0.02 Ohm	0.015 Ohm
Inductance	6 nH	15 nH	88 nH	51 nH
Capacitance (DC block)	1 nF	1 nF	1 nF	1 nF
Capacitance (by-pass)	2 nF	22 nF	22 nF	22 nF
RF Power	20 W	100 W	100 W	100 W
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			

Note: Parameters listed in the table and shown on the plots are typical values. They are guaranteed only when maximum or minimum limits are given.

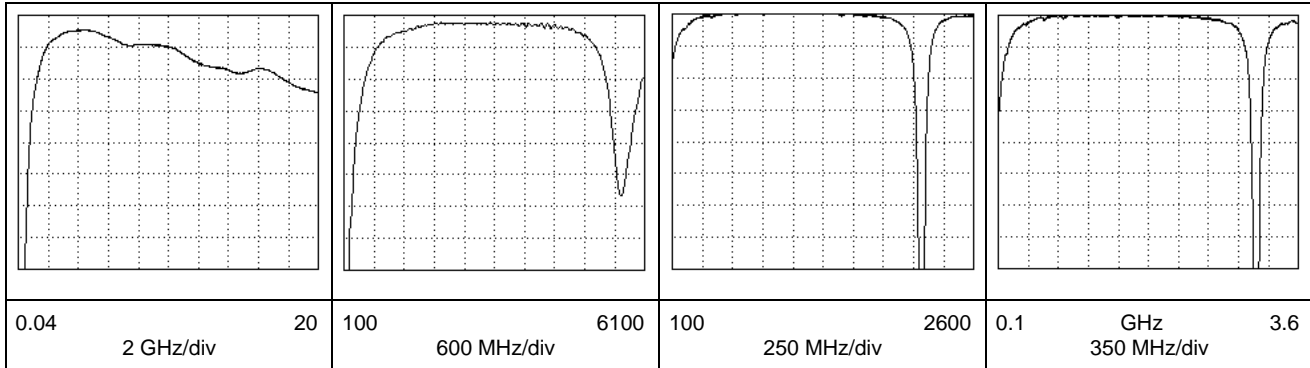
Ordering Information

Model Number	Extension	Connector Configuration *
5585, 5586, 5587, or 5589	-107	SMA jacks (f) on AC & AC+DC, solder pin on DC
	-108	SMA jacks (f) on AC & AC+DC, solder pin on DC, with mounting plate
	-114	SMA jack (f) on AC, SMA plug (m) on AC+DC, solder pin on DC
	-119	SMA plug (m) on AC, SMA jack (f) on AC+DC, solder pin on DC
	-122	SMA plugs (m) on AC & AC+DC, solder pin on DC

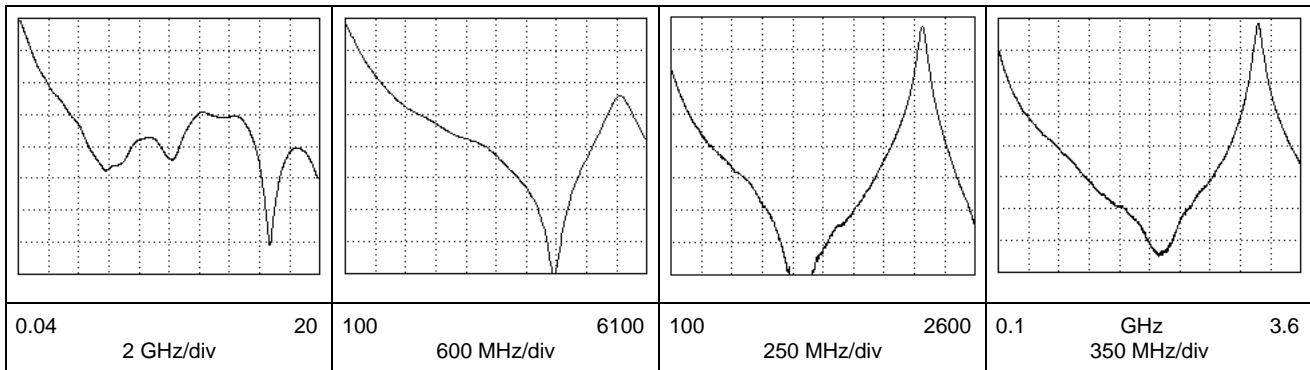
* Other connector combinations may be available on request.

5585 2 GHz to 18 GHz	5586 1 GHz to 5 GHz	5587 200 MHz to 2 GHz	5589 .3 GHz to 2.8 GHz
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Insertion Loss, S_{21} 0.5 dB/div, top line is 0 dB reference



Return Loss, S_{11} 5 dB/div, top line is 0 dB reference



5585 Series Mechanical Drawing

