

BT-100V4A3G High Voltage Bias Tee



1. Description

The BT-100V4A3G is a wide-band bias tee designed to bias high voltage pulsed measurements. The bias tee is paired with a separate inductor module (BT-I330), that extends the bias tee's low frequency bandwidth when attached. The bias tee and inductor module both come housed in a shielded package with dimensions of (51.9 mm x 21.4 mm x 16.7 mm) and (62.8 mm x 40.0 mm x 25.0 mm), respectively. The BT-100V4A3G is impedance-matched for 50 Ω . Maximum DC ratings are 100 V and 4 A.

2. Features

- 10 kHz to 3 GHz range
- Handles up to a 3 kV pulsed signal
- Impedance-matched for 50 Ω
- High DC ratings

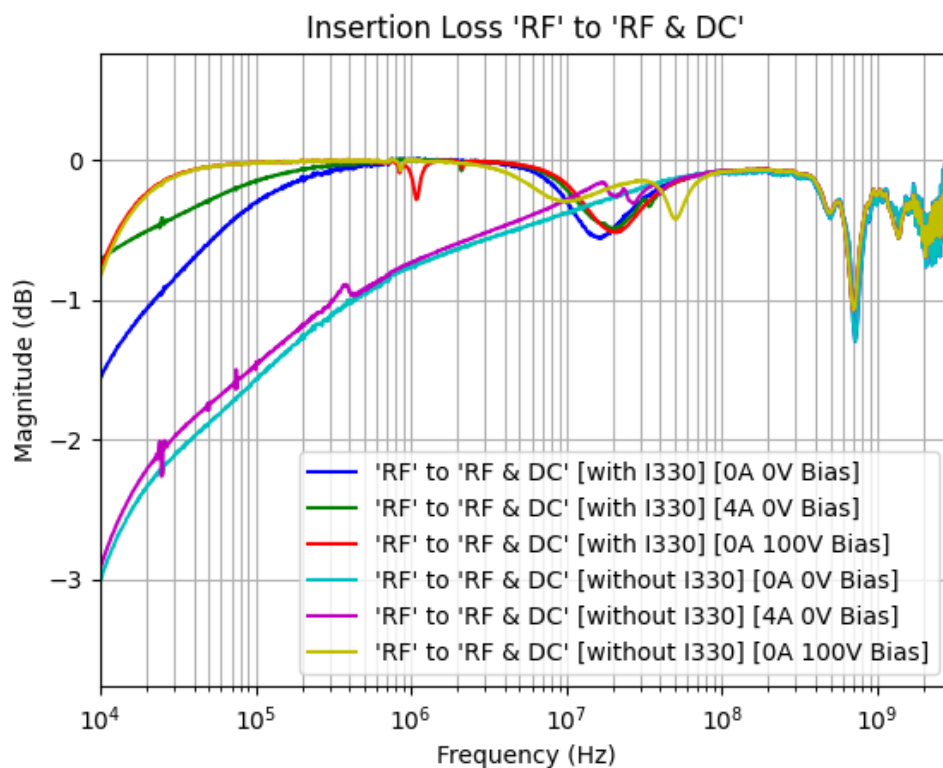
3. Applications

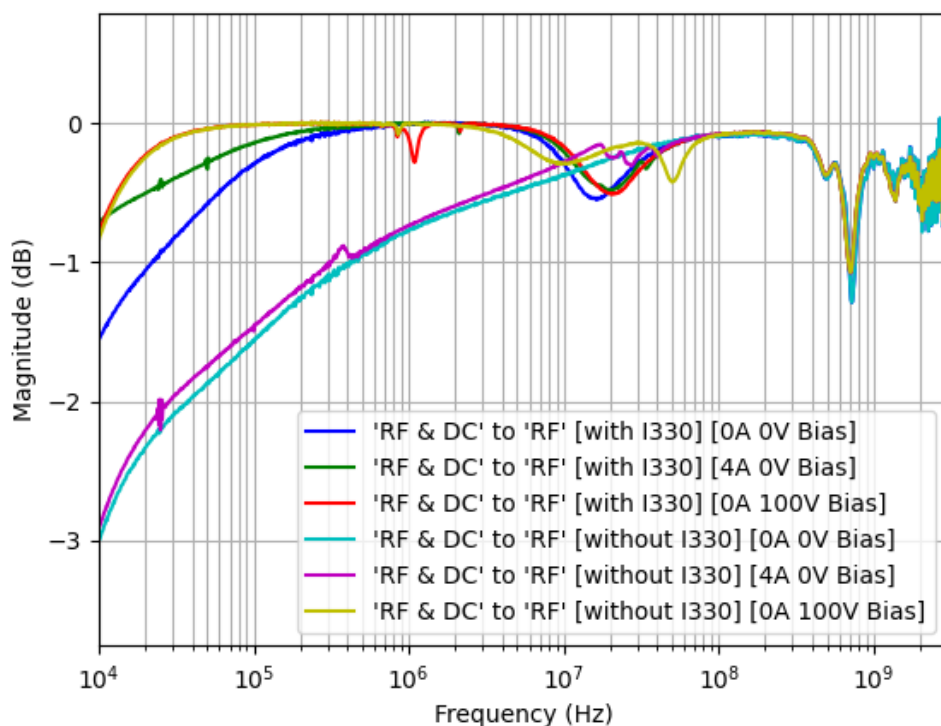
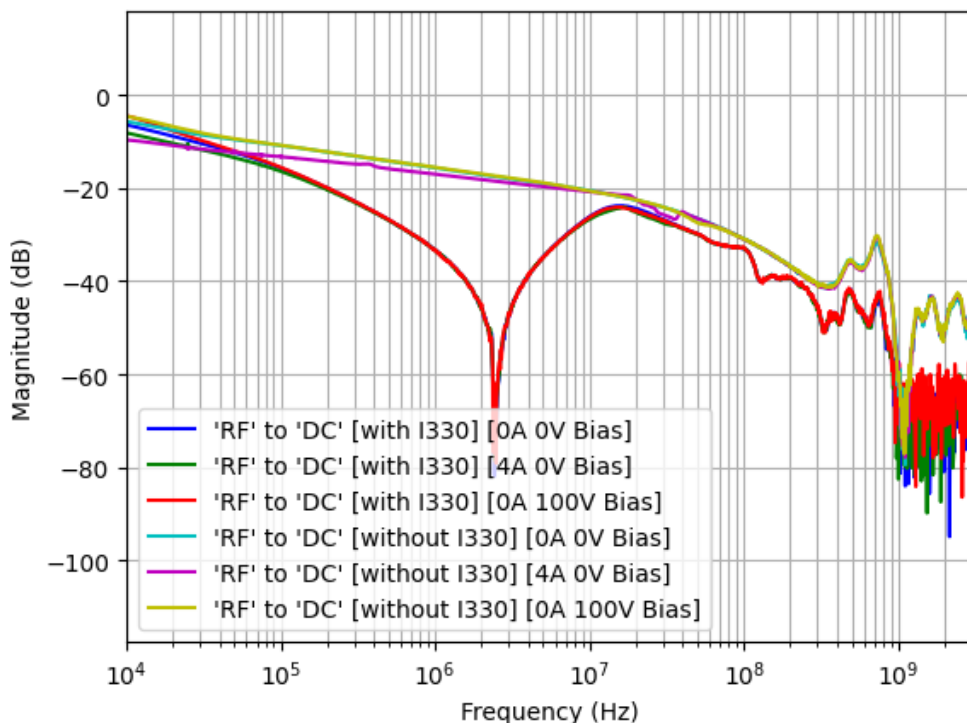
- Biasing HV Pulses
- DC blocking
- Biasing RF signals

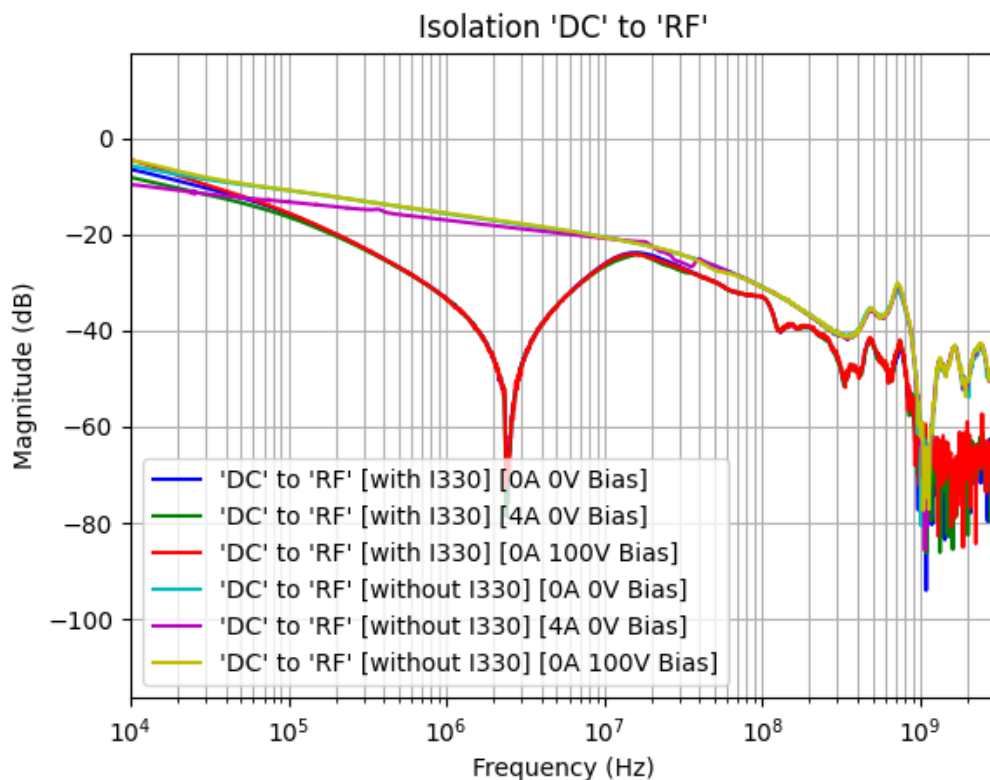
4. Specifications

Parameters	Nominal Values	Unit	Comments
Operating temperature	0 to 60	°C	
Max DC input current	4	A	
Max DC input voltage	100	V	
Max TLP current	100	A	Pulse tested with 500 ns
3dB-Bandwidth	10k – 3G	Hz	
Max insertion loss	3	dB	Within 30 kHz - 5 GHz

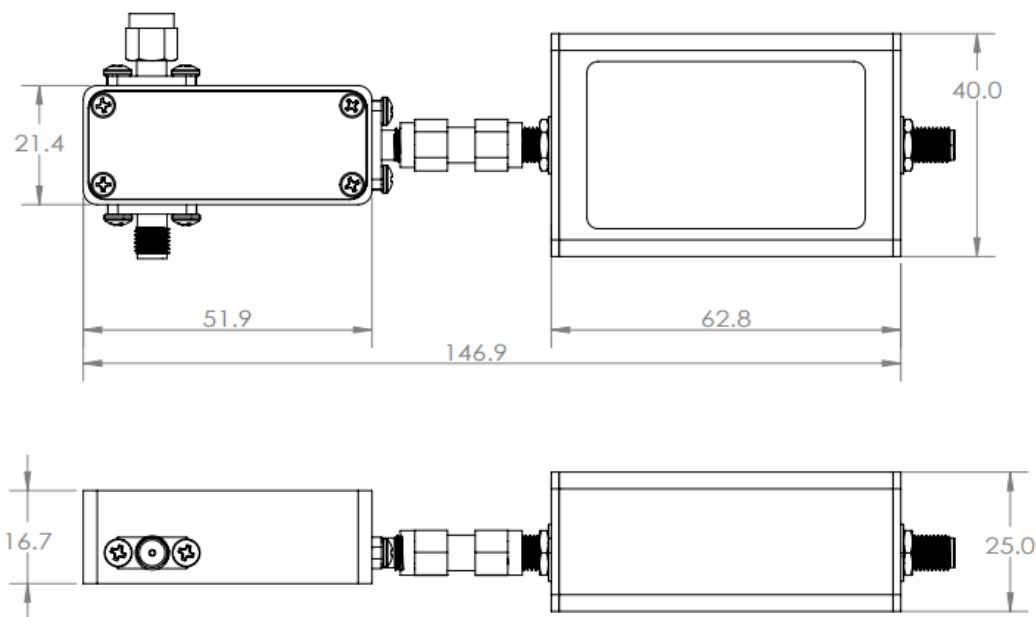
Typical Frequency Response Curves:



Insertion Loss 'RF & DC' to 'RF'

Isolation 'RF' to 'DC'




5. Dimensions



6. Ordering Information

Line	Part # or Option #	Description	Status
1	BT-100V4A3G	High Voltage Bias Tee	Active