

SMA Bias Tee, 0.1 MHz to 18 GHz

Description:

Model SCV-000183202505-SFSF-U3 is a bias tee that operates from 0.1 MHz to 18 GHz. The bias tee offers 2.0 dB typical insertion loss and 12 dB typical return loss. The bias tee can handle up to +50 V_{DC} bias voltage and 500 mA current. The RF ports are equipped with SMA (F) connectors. Other connector types are available under different model numbers.



Features:

- High Voltage
- High Current Capacity
- Low Insertion Loss

Applications:

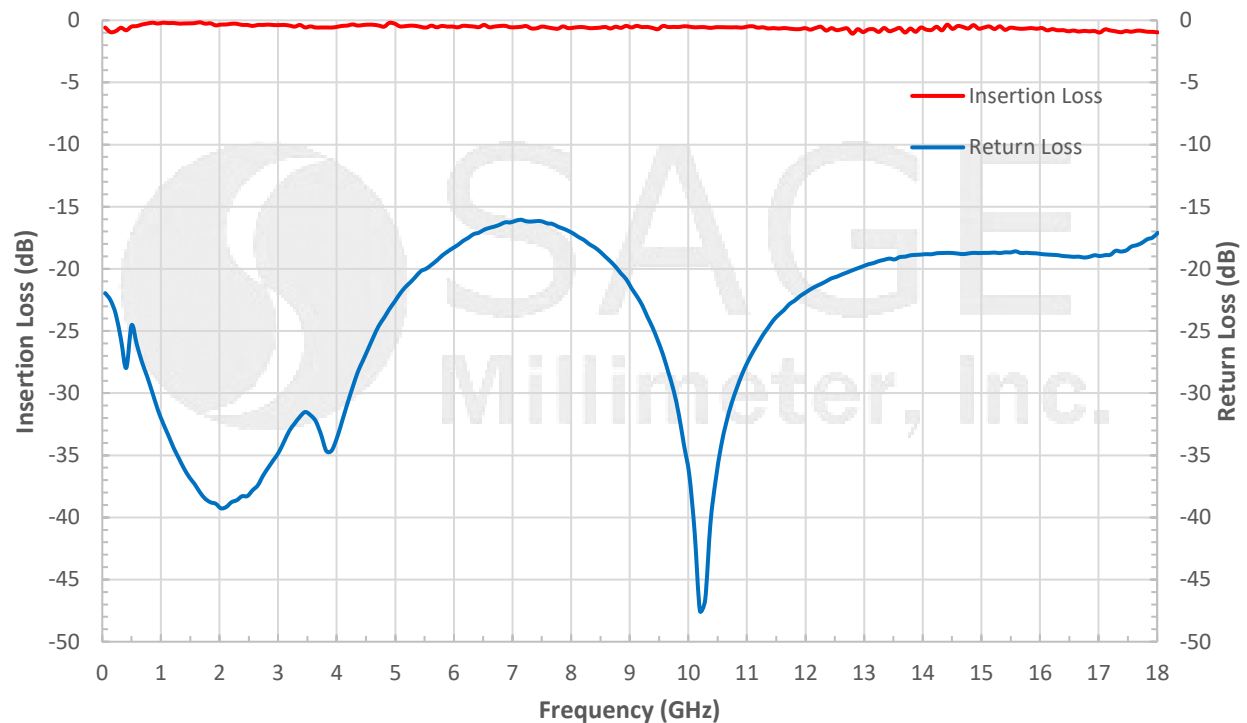
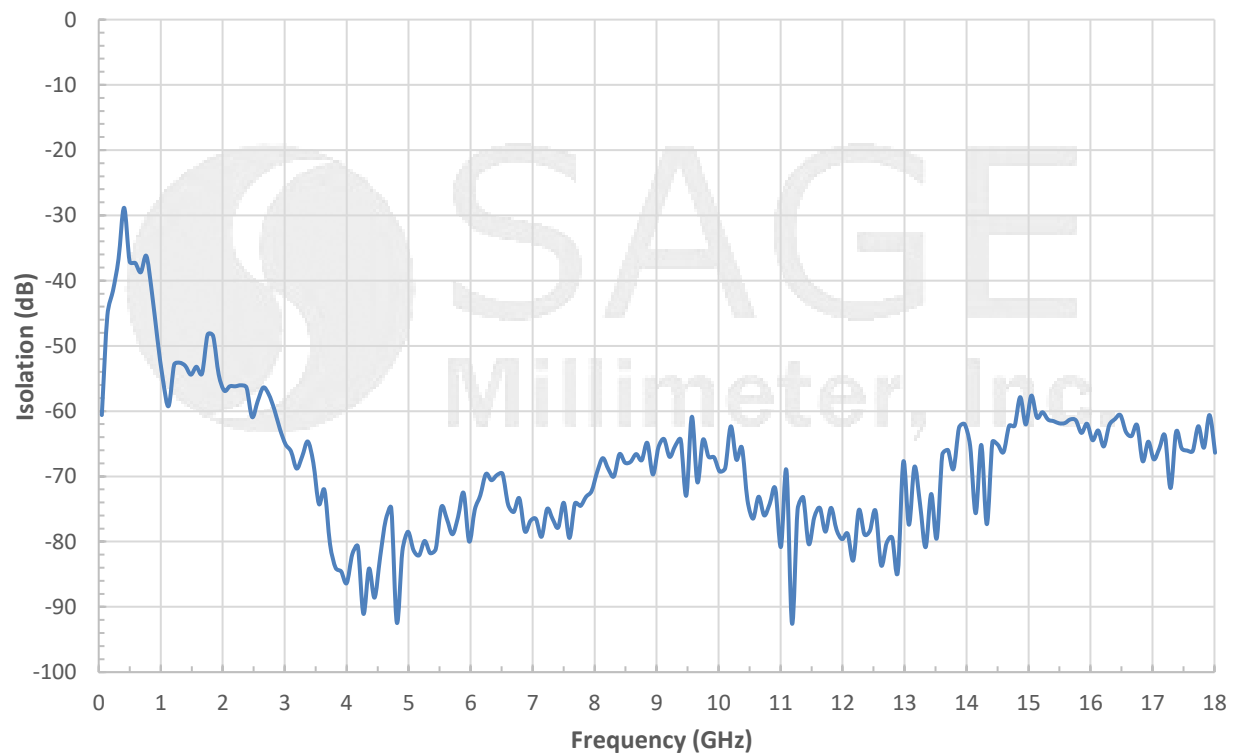
- Test Lab
- Sub-assemblies
- System Integrations

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	0.1 MHz		18 GHz
Insertion Loss		2.0 dB	
Return Loss		12 dB	
Isolation		25 dB	
DC Voltage			+50 V _{DC}
DC Current			500 mA
Power Handling			1 W (CW)
Specification Temperature		+25 °C	
Operating Temperature	0 °C		+50 °C

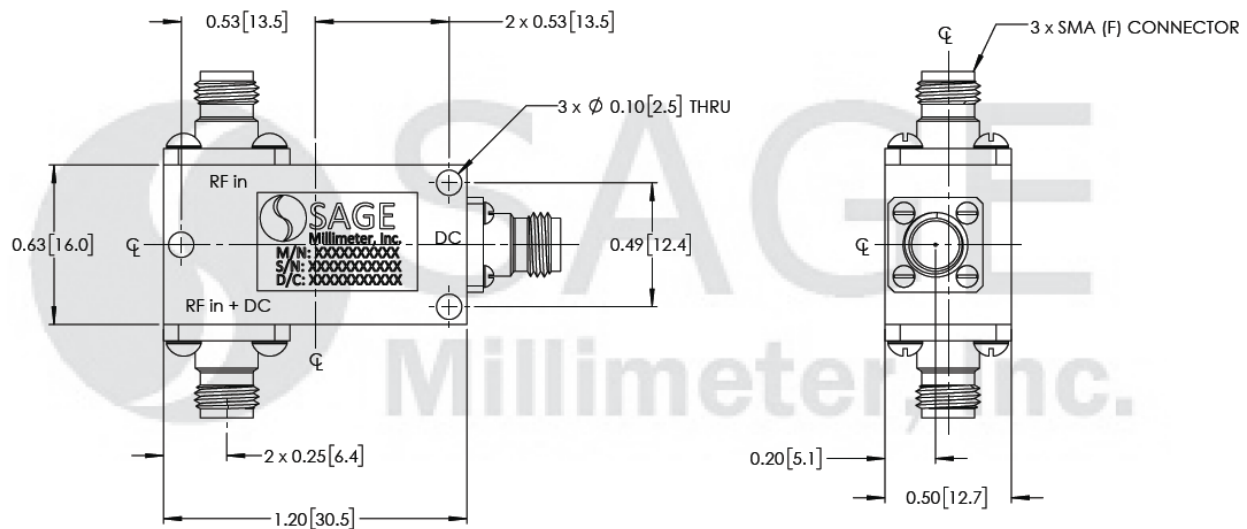
Mechanical Specifications:

Item	Parameter
Input Port	SMA Female
Output Port	SMA Female
DC Port	SMA Female
Case Material	Aluminum
Finish	Black Paint
Outline	CV-S-S1

**SMA Bias Tee, 0.1 MHz to 18 GHz****Typical Performance vs. Frequency****Typical Isolation vs. Frequency**

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Mechanical Outline: (Unless otherwise specified, all dimensions are in inches [millimeters])



Note:

- All data presented is collected from a sample lot. Actual data may vary unit to unit.
- All testing was performed under +25 °C case temperature.
- Other mechanical configurations are available under different model numbers.
- SAGE Millimeter, Inc. reserves the right to change the information presented without notice.

Caution:

- Exceeding absolute maximum ratings shown will damage the device.
- The device is static sensitive. Always follow ESD rules when working with the device.
- Any foreign objects in the bias tee will cause performance degradation and possible device damage.
- Proper torque, 8.0 ± 0.15 inch-pounds (0.90 ± 0.02 Nm), should be applied. **SAGE Millimeter torque wrench, model SCH-08008-U3, is highly recommended.**