

SB3000 DATA SHEET

SMA Bias Tee From 10 MHz to 3 GHz Rated To 3000 mA And 50 Volts DC

Fairview Microwave's SB3000 is an SMA bias tee (also known as bias T) that operates from 10 MHz to 3 GHz with a bias rating of 3,000 mA and 50 VDC. This bias tee is configured with SMA inputs on the RF ports and solder pin on the bias port. SB3000 SMA bias T offers good electrical performance featuring 1.8 dB typical insertion loss and 25 dB min isolation.

Bias tees are typically used to inject a DC signal into an RF path such as when biasing an amplifier or any other active device, supplying power to the connected output without disrupting the RF signal. They can also be used as DC returns to provide a ground return path for the input device or DC blocks to prevent direct current signals from flowing through the output device. Fairview Microwave's bias tees are available in various connector configurations over different frequency bands to fit your needs, all of which ship the same day.

Electrical Specifications

Description	Min	Тур	Max	Units
Frequency Range	0.01		3	GHz
Impedance		50		Ohms
VSWR			1.5:1	
Insertion Loss			1.8	dB
RF to Bias Isolation	25			dB
DC Voltage			50	Vdc
DC Current			3,000	mA
Input Power (CW)			10	Watts

Electrical Specification Notes: Values at +25°C, sea level.

Mechanical Specifications

Size

 Length
 1.25 in [31.75 mm]

 Width
 1.25 in [31.75 mm]

 Height
 0.75 in [19.05 mm]

 Weight
 0.1095 lbs [49.67 g]

 Package Type
 Connectorized

Connectors

RF Connector

Description	Connector		
Туре	SMA Female		
Inner Conductor Material and Plating	Beryllium Copper, Gold		
Body Material and Plating	Passivated Stainless Steel		



Configuration:

- RF Port Connector: SMA FemaleDC/RF Port Connector: SMA
- DC Port Connector: Solder Pin

Features:

Female

- 10 MHz to 3 GHz Frequency Range
- Isolation 25 dB Min
- Insertion Loss 1.8 dB Typ
- 3,000 mA / 50 VDC Bias

Applications:

- Amplifier Biasing
- DC Return / Block
- Transmitting Power With a Single Coax
- Test and Measurement
- Communication Systems
- Wireless Systems

Fairview Microwave 1130 Junction Dr. #100 Allen, TX 75013

Tel: 1-800-715-4396 / (972) 649-6678

Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com





RF/DC Connector

Description	Connector		
Туре	SMA Female		
Inner Conductor Material and Plating	Beryllium Copper, Gold		
Body Material and Plating	Passivated Stainless Steel		

DC Port

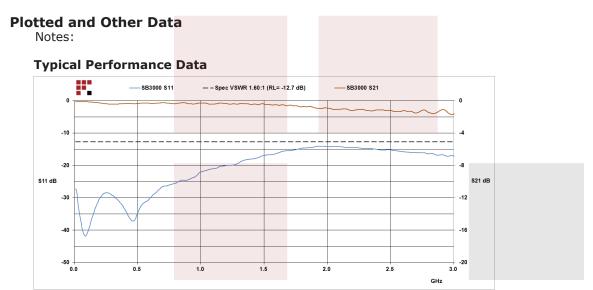
Description	Connector
Туре	Solder Pin

Environmental Specifications

Temperature

Operating Range -20 to +65 deg C

Compliance Certifications (see product page for current document)



SMA Bias Tee From 10 MHz to 3 GHz Rated To 3000 mA And 50 Volts DC from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

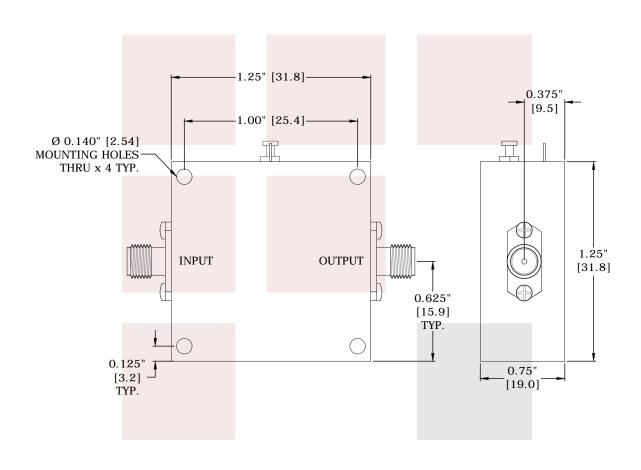
For additional information on this product, please click the following link: SMA Bias Tee From 10 MHz to 3 GHz Rated To 3000 mA And 50 Volts DC SB3000

URL: https://www.fairviewmicrowave.com/sma-bias-tee-10-mhz-3-ghz-3000-ma-50-volts-dc-sb3000-p.aspx

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.

1130 Junction Dr. #100 Allen, TX 75013 | Tel: 1-800-715-4396 / (972) 649-6678 / Fax: (972) 649-6689





FAIRVIEW MICROWAVE INC. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM	NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm].				
SMA Bias Tee From 10 MHz to 3 GHz Rated To 3000 mA And 50 Volts DC	DWG NO SB3000		CAGE CODE 3FKR5		
	CAD FILE 012216	SHEET	SCAL	E N/A	SIZE A