

## 50 KHz to 18 GHz SMA Broadband Bias Tee, Male Input, Rated to 750 mA and 25 Volts, DC BNC Connector

The FMBT1634 is a Broadband Bias Tee that operates from 50 KHz to 18 GHz. This general purpose Bias Tee is used in applications that requrie a source of DC voltage and current to be injected into an RF circuit without affecting the RF signal through the main transmission path. The module is designed for a 50 ohm input/ output impedance and displays impressive typical performance that includes 1 dB insertion loss, 50 dB RF to Bias Port Isolation, and 1.5:1 VSWR. The Bias Tee is rated for 0.75 Amps and +25 Volts max DC voltage. The compact package uses an SMA Male connector at the RF input and an SMA Female connector at the RF output. A Female BNC Connector is used for the DC Port. Operational Temperature is +15°C to +30°C.

### **Electrical Specifications**

Description	Min	Тур	Max	Units
Frequency Range	50KHz		18	GHz
Impedance		50		Ohms
VSWR		1.5:1	1.8:1	
Insertion Loss		1	1.5	dB
RF to Bias Isolation		50		dB
DC Voltage			25	Vdc
DC Current			750	mA
Rise Time		9		ps

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

## **Mechanical Specifications**

Size	
Length	1.2 in [30.48 mm]
Width	0.63 in [16 mm]
Height	0.515 in [13.08 mm]
Weight	0.11 lbs [49.9 g]

### **Environmental Specifications**

Temperature	
Operating Range	+15 to +30 deg C

**Compliance Certifications** (see product page for current document)

#### **Plotted and Other Data**

Notes:



## **Configuration:**

- RF Port Connector: SMA Male
- DC/RF Port Connector:SMA Female
- DC Port Connector: BNC Female

## **Features:**

- General Purpose
  Broadband Bias Tee
- 50 KHz to 18 GHz Frequency Range
- Insertion Loss: 1 dB Typ
- Isolation: 50 dB typ
- VSWR: 1.5:1 typ
- 50 Ohms Input and Output Matched
- SMA Male RF Input Connector
- SMA Female RF Output Connector
- DC Connector: Female BNC
- Operational Temperature: +15°C to +30°C
- Rating: 0.75A max DC Current and +25V max DC Voltage

## **Applications:**

- Biasing for Antenna Amplifiers, Laser Diodes, Photo Diodes, Optical Modulators
- Test & Measurement
- SATCOM
  - Wireless Communications Systems
  - Power over Ethernet
  - Base Stations and Radios

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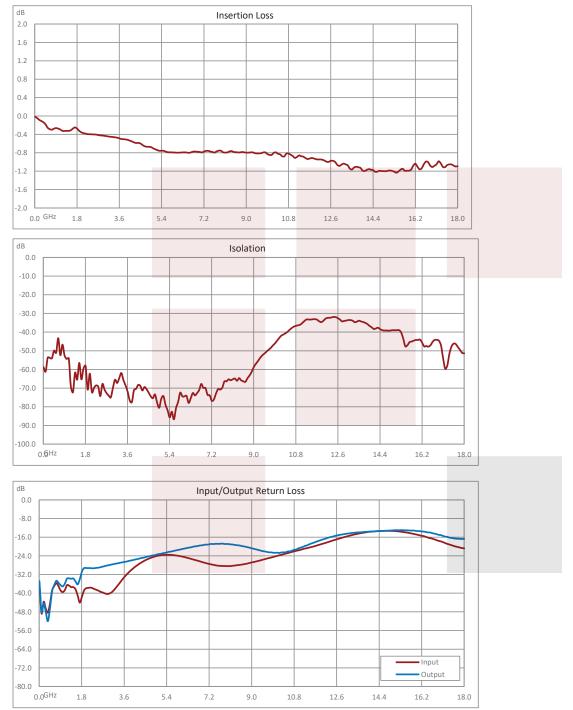
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# FMBT1634 DATA SHEET

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#### **Typical Performance Data**



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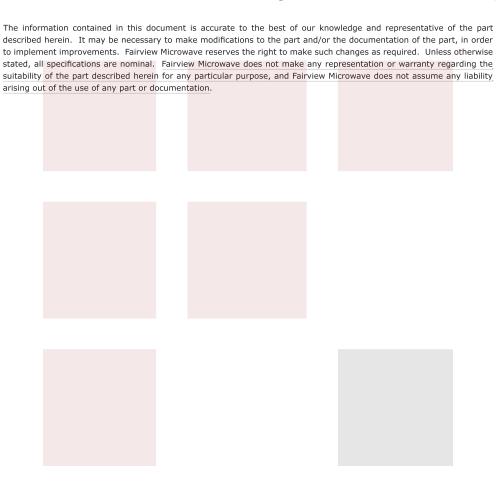




50 KHz to 18 GHz SMA Broadband Bias Tee, Male Input, Rated to 750 mA and 25 Volts, DC BNC Connector from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: 50 KHz to 18 GHz SMA Broadband Bias Tee, Male Input, Rated to 750 mA and 25 Volts, DC BNC Connector FMBT1634

URL: https://www.fairviewmicrowave.com/bias-tee-0.05-mhz-18-ghz-750-ma-25-volts-dc-fmbt1634-p.aspx



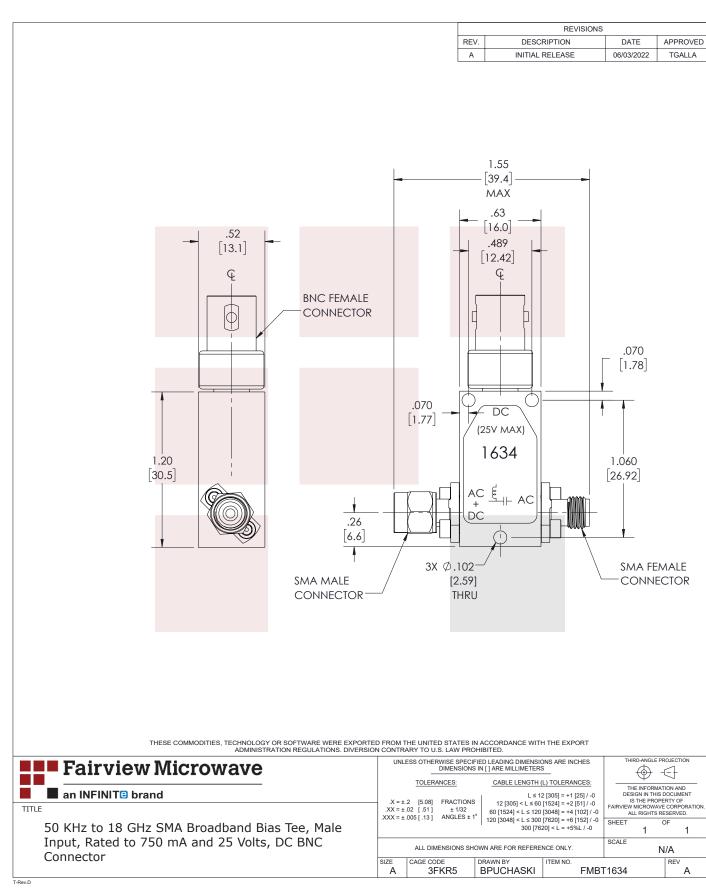
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