

50 KHz to 12.4 GHz SMA Broadband Bias Tee, Male Input, Rated to 750 mA and 25 Volts, DC SMA Connector

The FMBT1631 is a Broadband Bias Tee that operates from 50 KHz to 12.4 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 1.3:1 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 SMA connector is used for the DC port. Operational Temperature is +15°C to +30°C.

Electrical Specifications

Description	Min	Тур	Мах	Units
Frequency Range	50KHz		12.4	GHz
Impedance		50		Ohms
VSWR		1.3:1	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:

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FMBT1631

DATA SHEET

Configuration:

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

Features:

- General Purpose
 Broadband Bias Tee
- 50 KHz to 12.4 GHz Frequency Range
- Insertion Loss: 1 dB Typ
- Isolation: 50 dB typ
- VSWR: 1.3:1 typ
- 50 Ohms Input and Output Matched
- SMA Male RF Input Connector
- SMA Female RF Output Connector
- DC Connector: SMA Female • Operational Temperature:
- 15°C to +30°C
- Rating: 0.75A max DC Current and +25V max DC Voltage

Applications:

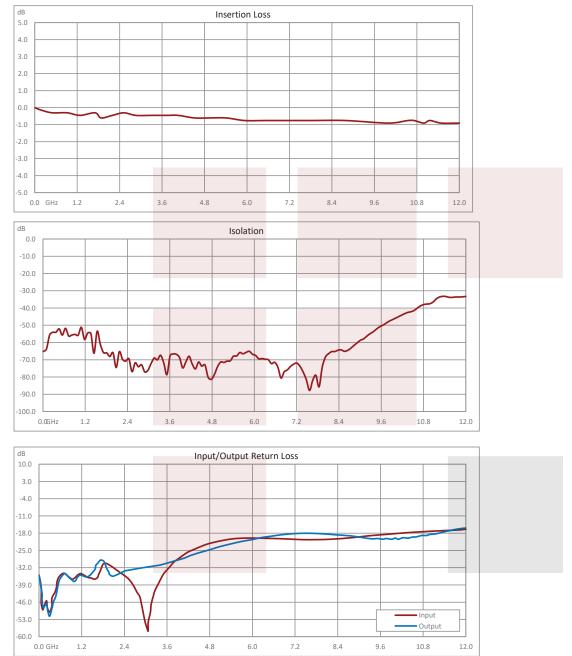
- Biasing for Antenna Amplifiers, Laser Diodes, Photo Diodes, Optical Modulators
- Test & Measurement
- SATCOM
- Wireless Communications Systems
- Power over Ethernet
- Base Stations and Radios

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Typical Performance Data



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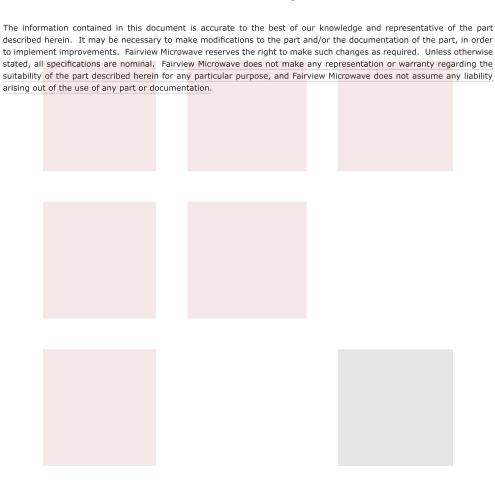




50 KHz to 12.4 GHz SMA Broadband Bias Tee, Male Input, Rated to 750 mA and 25 Volts, DC SMA Connector from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: 50 KHz to 12.4 GHz SMA Broadband Bias Tee, Male Input, Rated to 750 mA and 25 Volts, DC SMA Connector FMBT1631

URL: https://www.fairviewmicrowave.com/bias-tee-0.05-mhz-12.4-ghz-750-ma-25-volts-dc-fmbt1631-p.aspx

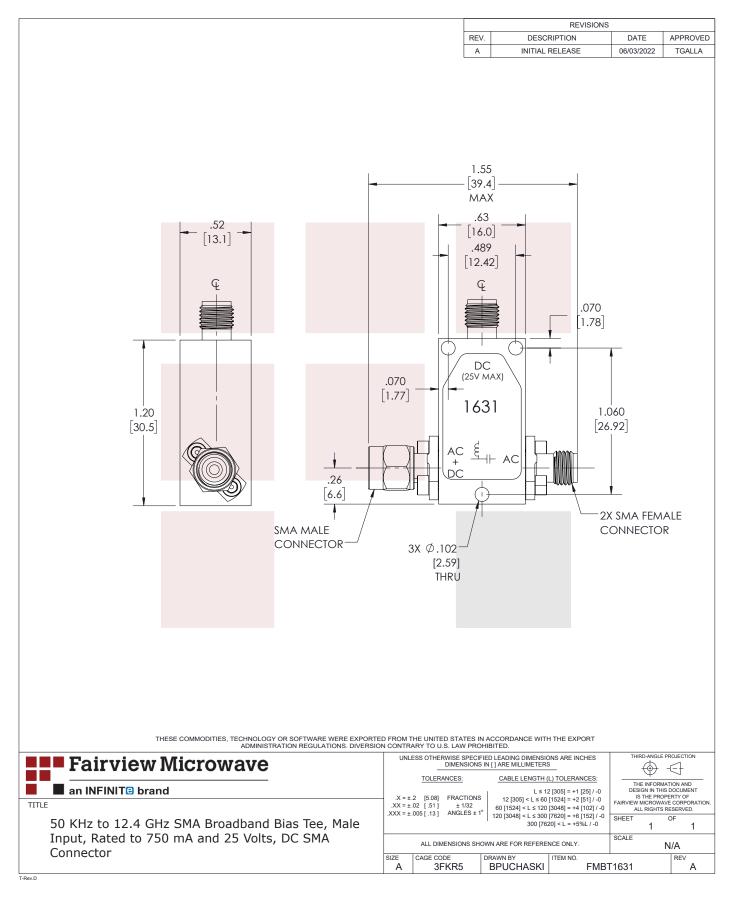


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