



12 KHz to 40 GHz, 2.92mm Broadband Bias Tee, Rated 150 mA and 16 Volts, DC SMA Connector

The FMBT1644 is a Wideband Bias Tee that operates from 12 KHz to 40 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 1.5 dB insertion loss, 50 dB RF to Bias Port Isolation, and 1.7:1 VSWR. The Bias Tee is rated for 150 mA and +16 Volts max DC voltage. The compact package uses a 2.92mm Female connector at the RF input and a 2.92mm Female connector at the RF output. An SMA Female Connector is used for the DC Port. Operational Temperature is $+15^{\circ}$ C to $+30^{\circ}$ C.

Electrical Specifications

Description	Min	Тур	Max	Units
Frequency Range	12KHz		40	GHz
Impedance		50		Ohms
VSWR		1.7:1	2.5:1	
Insertion Loss		1.5	3	dB
RF to Bias Isolation		50		dB
DC Voltage			16	Vdc
DC Current			150	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
 0.5 in [12.7 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: 2.92mm Female
- DC/RF Port Connector:2.92mm Female
- DC Port Connector: SMA Female

Features:

- General Purpose
 Wideband Bias Tee
- 12 KHz to 40 GHz Frequency Range
- Insertion Loss: 1.5 dB Typ
- Isolation: 50 dB typ
- VSWR: 1.7:1 typ
- 50 Ohms Input and Output Matched
- 2.92mm Female RF Input Connector
- 2.92mm Female RF Output Connector
- DC Connector: SMA Female
- Operational Temperature: +15°C to +30°C
- Rating: 150 mA max DC Current and +16V max DC Voltage

Applications:

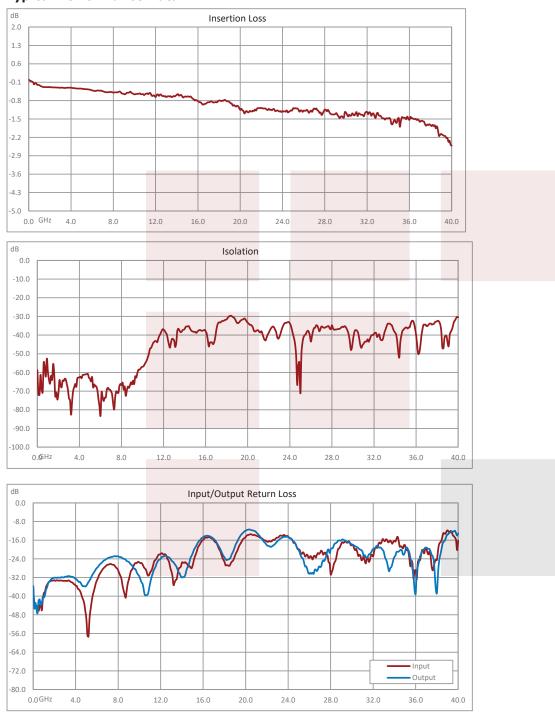
- Biasing for Antenna Amplifiers, Laser Diodes, Photo Diodes, Optical Modulators
- Test & Measurement
- SATCOM
- Wireless Communications Systems
- Power over Ethernet
- Base Stations and Radios

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Typical Performance Data







12 KHz to 40 GHz, 2.92mm Broadband Bias Tee, Rated 150 mA and 16 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: 12 KHz to 40 GHz, 2.92mm Broadband Bias Tee, Rated 150 mA and 16 Volts, DC SMA Connector FMBT1644

URL: https://www.fairviewmicrowave.com/bias-tee-0.012-mhz-40-ghz-150-ma-16-volts-dc-fmbt1644-p.aspx



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