

FMBT1636 DATA SHEET

50 KHz to 18 GHz SMA Broadband Bias Tee, Male Input, Rated to 750 MHz and 25 Volts, DC Pin

The FMBT1636 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 Solder Post Pin is used for the DC Connector. Operational Temperature is $+15^{\circ}$ C to $+30^{\circ}$ 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 q]

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: DC Pin

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: Solder Pin
- 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

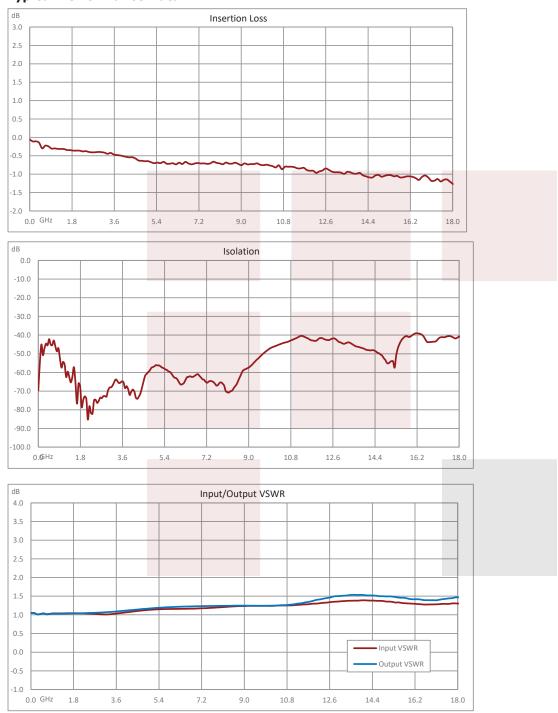
Fairview Microwave 301 Leora Ln., Suite 100 Lewisville, TX 75056 Tel: 1-800-715-4396 / (972) 649-6678 Fax: (972) 649-6689

www.fairviewmicrowave.com sales@fairviewmicrowave.com





Typical Performance Data







50 KHz to 18 GHz SMA Broadband Bias Tee, Male Input, Rated to 750 MHz and 25 Volts, DC Pin 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 MHz and 25 Volts, DC Pin FMBT1636

URL: https://www.fairviewmicrowave.com/bias-tee-0.05-mhz-18-ghz-750-ma-25-volts-dc-fmbt1636-p.aspx



301 Leora Ln., Suite 100, Lewisville, TX 75056 | Tel: 1-800-715-4396 / (972) 649-6678 / Fax: (972) 649-6689





