



10 MHz to 3 GHz, Type F 75 Ohm Bias Tee, Rated 2.5 Amps and 100 Volts, DC BNC Connector

The FMBT1650 is a 75 Ohm Broadband Bias Tee that operates from 10 MHz to 3 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 75 ohm input/output impedance and displays impressive typical performance that includes 0.8 dB insertion loss, 40 dB RF to Bias Port Isolation, and 1.5:1 VSWR. The Bias Tee is rated for 2.5 Amps and +100 Volts max DC voltage. The compact package uses a Type F Female connector at the RF input and a Type F Female connector at the RF output. A Female BNC connector is used for the DC port. Operational Temperature is -55°C to +105°C.

Electrical Specifications

Description	Min	Тур	Max	Units
Frequency Range	0.01		3	GHz
Impedance		75		Ohms
VSWR		1.5:1	1.8:1	
Insertion Loss		0.8	3	dB
RF to Bias Isolation		40		dB
DC Voltage			100	Vdc
DC Current			2.5	Α
Bias Path Resistance		0.04	0.05	Ohm
3dB Bandwidth	0.005		6	GHz

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

Mechanical Specifications

Size Length Width Height

1.29 in [32.77 mm] 0.85 in [21.59 mm] 1 in [25.4 mm]

Weight 0.11 lbs [49.9 g]

Environmental Specifications Temperature

Operating Range Storage Range

-55 to +105 deg C -60 to +90 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:



Configuration:

RF Port Connector: F Female
DC/RF Port Connector: F Female
DC Port Connector: BNC Female

Features:

- 75 Ohm Broadband Bias Tee
- 10 MHz to 3 GHz Frequency Range
- Insertion Loss: 0.8 dB Typ
- Isolation: 40 dB typ
- VSWR: 1.5:1 typ
- 75 Ohms Input and Output Matched
- Type F Female RF Input Connector
- Type F Female RF Output Connector
- DC Connector: Female BNC
- Operational Temperature: -55°C to +105°C
- Rating: 2.5 Amps DC Current and +100V max DC Voltage

Applications:

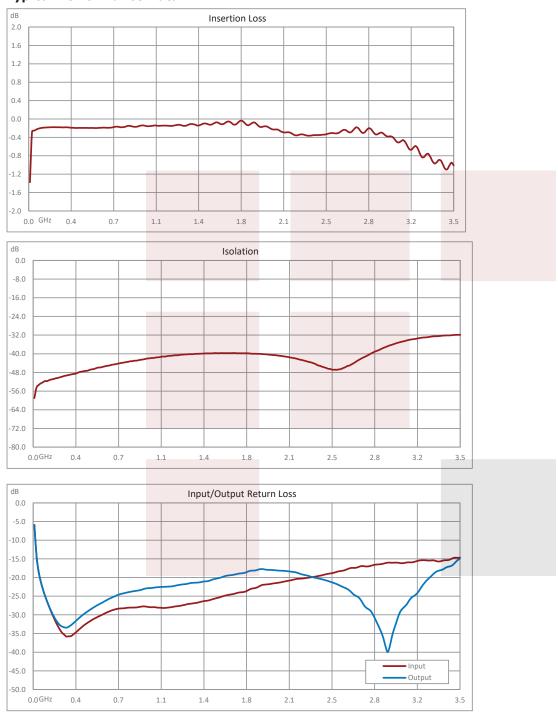
- Biasing for Antenna Amplifiers, Laser Diodes, Photo Diodes, Optical Modulators
- Test & Measurement
- SATCOM
- Wireless Communications Systems
- Power over Ethernet
- Base Stations and Radios

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Typical Performance Data







10 MHz to 3 GHz, Type F 75 Ohm Bias Tee, Rated 2.5 Amps and 100 Volts, DC BNC Connector from Fairview Microwave is instock 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: 10 MHz to 3 GHz, Type F 75 Ohm Bias Tee, Rated 2.5 Amps and 100 Volts, DC BNC Connector FMBT1650

URL: https://www.fairviewmicrowave.com/f-bias-tee-10-mhz-3-ghz-2500-ma-100-volts-dc-fmbt1650-p.aspx



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