



10 MHz to 2.5 GHz N Broadband Bias Tee, Male Output, Rated to 2.5 Amps and 100 Volts, DC SMA connector

The FMBT1623 is a Broadband Bias Tee that operates from 10 MHz to 2.5 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 0.3 dB insertion loss, 40 dB Isolation, and 1.1:1 VSWR. The Bias Tee is rated for 2.5 Amps and +100 Volts max DC voltage. Maximum RF input power hanlding is 5W. The compact package uses an N Type Female connector at the RF input and an N Type Male connector at the RF output . An SMA Female 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		2.5	GHz
Impedance		50		Ohms
VSWR		1.1:1	1.5:1	
Insertion Loss		0.3	1	dB
RF to Bias Isolation		40		dB
DC Voltage			100	Vdc
DC Current			2.5	Α
Input Power (CW)			5	Watts
Bias Path Resistance		0.04	0.05	Ohm
3dB Bandwidth	0.005		15	GHz

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

Mechanical Specifications Size

 Length
 1.29 in [32.77 mm]

 Width
 0.85 in [21.59 mm]

 Height
 1 in [25.4 mm]

 Weight
 0.11 lbs [49.9 g]

Environmental Specifications Temperature

Operating Range -55 to +105 deg C Storage Range -60 to +90 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:



Configuration:

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

Features:

- General Purpose Broadband Bias Tee
- 10 MHz to 2.5 GHz Frequency Range
- Insertion Loss: 0.3 dB Typ
- Isolation: 40 dB typ
- VSWR: 1.1:1 typ
- RF Input Power Handling 5W max
- 50 Ohms Input and Output Matched
- N Type Female RF Input Connector
- N Type Male RF Output Connector
- DC Connector: SMA Female
- Operational Temperature:
 -55°C to +105°C
- Rating: 2.5A max DC Current and +100V max DC Voltage

Applications:

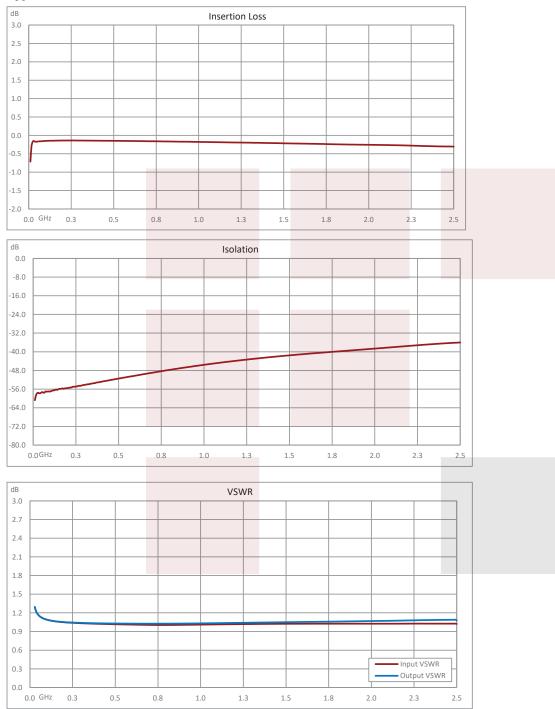
- Biasing for Antenna Amplifiers, Laser Diodes, Photo Diodes, Optical Modulators
- Test & Measurement
- SATCOM
- Wireless Communications Systems
- Power over Ethernet
- Base Stations and Radios

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Typical Performance Data



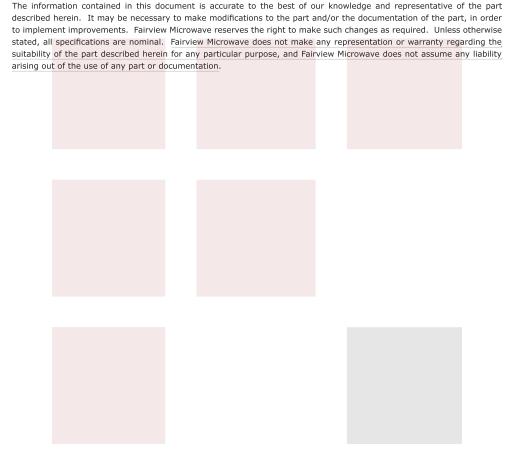




10 MHz to 2.5 GHz N Broadband Bias Tee, Male Output, Rated to 2.5 Amps and 100 Volts, DC SMA connector from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: 10 MHz to 2.5 GHz N Broadband Bias Tee, Male Output, Rated to 2.5 Amps and 100 Volts, DC SMA connector FMBT1623

URL: https://www.fairviewmicrowave.com/n-bias-tee-10-mhz-2.5-ghz-2500-ma-100-volts-dc-fmbt1623-p.aspx



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