



10 MHz to 6 GHz N Broadband Bias Tee, Male Output, Rated to 2.5 Amps and 100 Volts, DC BNC Connector

The FMBT1628 is a Broadband Bias Tee that operates from 10 MHz to 6 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 0.8 dB insertion loss, 40 dB Isolation, and 1.3:1 VSWR. The Bias Tee is rated for 2.5 Amps and +100 Volts max DC voltage. Maximum RF input power handling 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 . 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		6	GHz
Impedance		50		Ohms
VSWR		1.3:1	1.5:1	
Insertion Loss		0.8	1.25	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] 1 in [25.4 mm] Height 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: BNC Female

Features:

- General Purpose Broadband Bias Tee
- 10 MHz to 6 GHz Frequency Range
- Insertion Loss: 0.8 dB Typ
- Isolation: 40 dB typ
- VSWR: 1.3:1 tvp
- 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 Bias Connector: Female BNC
- Operational Temperature: -55°C to +105°C
- Rating: 2.5A max DC Current and +100V max DC Voltage

Applications:

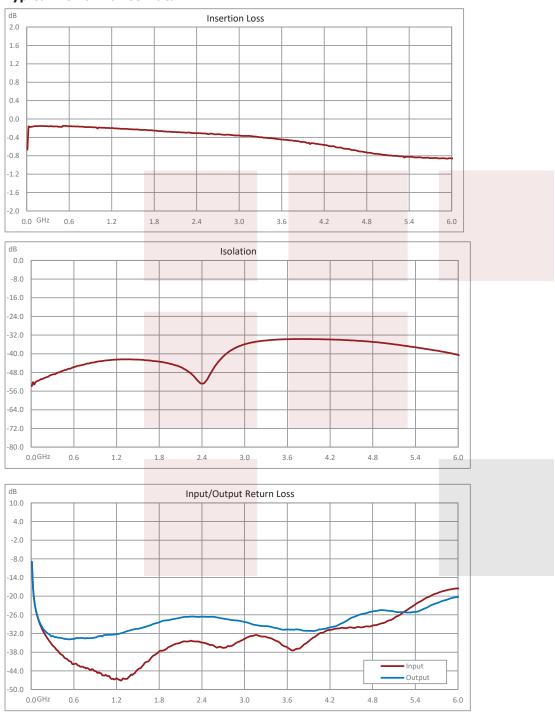
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- Test & Measurement
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- Wireless Communications Systems
- Power over Ethernet
- Base Stations and Radios

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Typical Performance Data







10 MHz to 6 GHz N Broadband Bias Tee, Male Output, Rated to 2.5 Amps and 100 Volts, DC BNC 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 6 GHz N Broadband Bias Tee, Male Output, Rated to 2.5 Amps and 100 Volts, DC BNC Connector FMBT1628

URL: https://www.fairviewmicrowave.com/n-bias-tee-10-mhz-6-ghz-2500-ma-100-volts-dc-fmbt1628-p.aspx



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