



Precision Ultra-Wide Band Bias Tee, 50 kHz - 110 GHz, 1.00mm(m) input, 1.00mm(f) output, SMC(m) bias

The FMBT1662 is a Precision Ultra-Wide Band Bias Tee that operates from 50 KHz to 110 GHz. This high precision design incoporates Metrology-Grade quality with robust mechanical packaging. Bias Tee's are designed for applications where both DC and RF signals must be applied to the Device Under Test (DUT). The module is RoHS Compliant and designed for a 50 ohm input/output impedance with low insertion loss of 1.5 dB typ and good return loss of 12 dB typ. The Bias Tee is rated for 0.4 Amps max DC current and +16V maximum DC voltage. Maximum RF input power hanlding is 1W. The compact package uses a W1 (1.00mm) Male connector at the RF input and a W1 (1.00mm) Female connector at the RF output . An SMC female connector is used for the DC Bias port. One (1) cable assembly (48 inch BNC male to SMC male) is included and used for making the DC Bias connection. Designed for high reliability the FMBT1662 is guaranteed and not tested to meet MIL-STD-202F environmental test conditions for Thermal Shock, Mechanical Shock, and Vibration.

Electrical Specifications

Description	Min	Тур	Max	Units
Frequency Range	50KHz		110	GHz
Impedance		50		Ohms
Return Loss		12		dB
Insertion Loss		1.5		dB
DC Voltage			16	Vdc
DC Current			0.4	mA
Input Power (CW)			1	Watt
Rise Time		3.2		ps
Leakage Current		80		рА
Group Delay		108		ps

Mechanical Specifications

Length	2.39 in [60.71 mm]
Width	1.33 in [33.78 mm]
Height	0.48 in [12.19 mm]
Weight	0.195 lbs [88.45 g]

Environmental Specifications

Temperature

Operating Range -20 to +60 deg C Storage Range -25 to +65 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:



Configuration:

RF Port Connector: 1.0mm Male
DC/RF Port Connector: BNC Male

• DC Port Connector: SMC Female

Features:

- Precision Ultra-Wide Band Bias Tee
- Metrology Grade
- 100 MHz to 110 GHz Frequency Range
- Insertion Loss: 1.5 dB typ
- Return Loss 12 dB typ
- Rating: 0.4A max DC Current and +16V max DC Voltage
- Rise Time 3.2 psec typ
- Group Delay 108 psec typ
- Leakage Current 80 pA typ
- RF Input Power Handling 1W max
- 50 Ohms Input and Output Matched
- W1 (1.0 mm) Male RF Input Connector
- W1 (1.0 mm) Female RF output Connector
- SMC Female Connector for DC Bias Port
- BNC Male to SMC Male Cable Assembly Included
- Meets MIL-STD-202F Environmental Test Consitions for Thermal Shock, Mechanical Shock, and Vibration
- RoHS Compliant Design

Applications:

 High Frequency System and Instrumentation

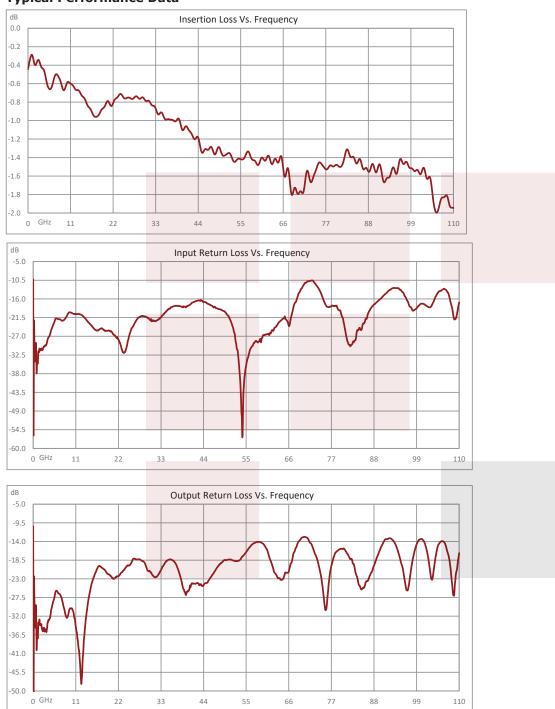
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Typical Performance Data







Precision Ultra-Wide Band Bias Tee, 50 kHz - 110 GHz, 1.00mm(m) input, 1.00mm(f) output, SMC(m) bias 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: Precision Ultra-Wide Band Bias Tee, 50 kHz - 110 GHz, 1.00mm(m) input, 1.00mm(f) output, SMC(m) bias FMBT1662

URL: https://www.fairviewmicrowave.com/bias-tee-0.05-mhz-110-ghz-0-ma-16-volts-dc-fmbt1662-p.aspx

