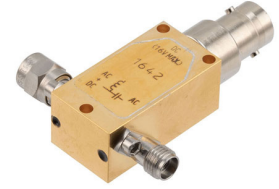


12 KHz to 40 GHz, 2.92mm Broadband Bias Tee, Male Input,
Rated to 150 mA and 16 Volts, DC BNC Connector



FMBT1642

Features

- General Purpose Wideband Bias Tee
- 50 KHz to 26 GHz Frequency Range
- Insertion Loss: 1.2 dB Typ
- Isolation: 50 dB typ
- VSWR: 1.5:1 typ
- 50 Ohms Input and Output Matched
- 2.92mm Male RF Input Connector
- 2.92mm Female RF Output Connector
- DC Connector: BNC Female
- Operational Temperature: +15°C to +30°C
- Rating: 150 mA max DC Current and +16V 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

Description

The FMBT1642 is a Wideband Bias Tee that operates from 12 KHz to 40 GHz. This general purpose Bias Tee is used in applications that require 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 1.2 dB insertion loss, 50 dB RF to Bias Port Isolation, and 1.5:1 VSWR. The Bias Tee is rated for 150 mA and +16 Volts max DC voltage. The compact package uses a 2.92mm Male connector at the RF input and a 2.92mm Female connector at the RF output. A Female BNC Connector is used for the DC Port. Operational Temperature is +15°C to +30°C.

Configuration

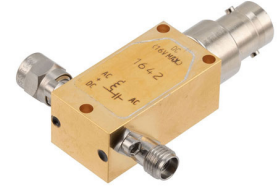
Design	Broadband
RF Port Connectors	2.92mm Male
DC Port Connector	BNC Female
DC/RF Port Connector	2.92mm Female

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	12KHz		40	GHz
Impedance		50		Ohms
VSWR		1.5:1	2.5:1	
Insertion Loss		1.2	3	dB
RF to Bias Isolation		50		dB
DC Voltage			16	Vdc
DC Current			150	mA
Rise Time		9		ps

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

12 KHz to 40 GHz, 2.92mm Broadband Bias Tee, Male Input,
Rated to 150 mA and 16 Volts, DC BNC Connector



FMBT1642

Mechanical Specifications

Size

Length	1.2 in [30.48 mm]
Width	0.63 in [16 mm]
Height	0.5 in [12.7 mm]
Weight	0.11 lbs [49.9 g]

Environmental Specifications

Temperature

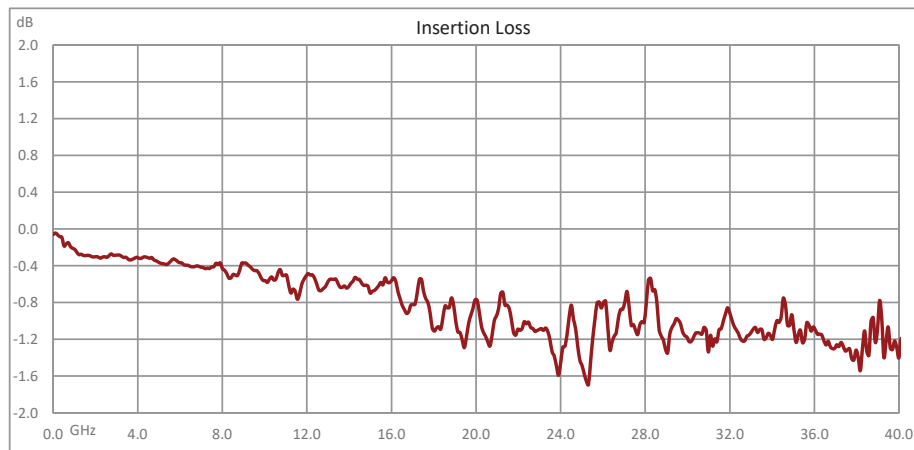
Operating Range	+15 to +30 deg C
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Compliance Certifications (see [product page](#) for current document)

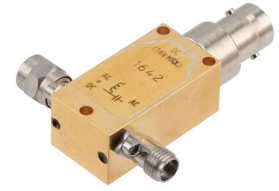
Plotted and Other Data

Notes:

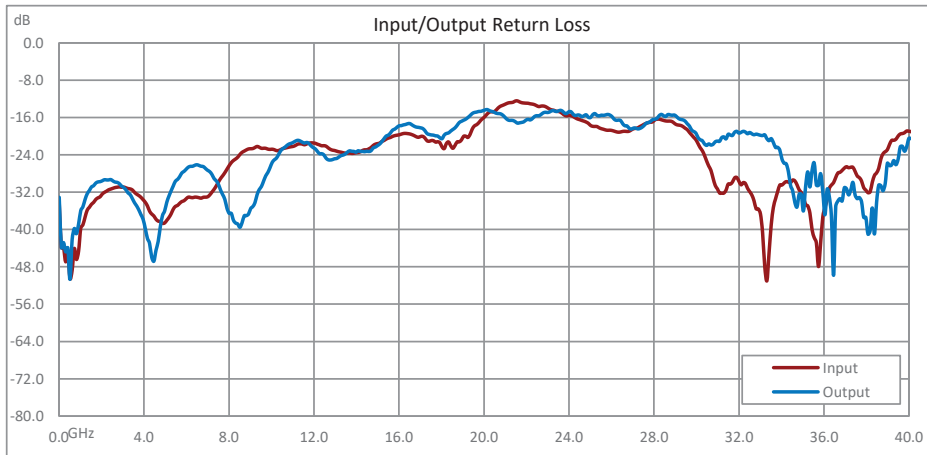
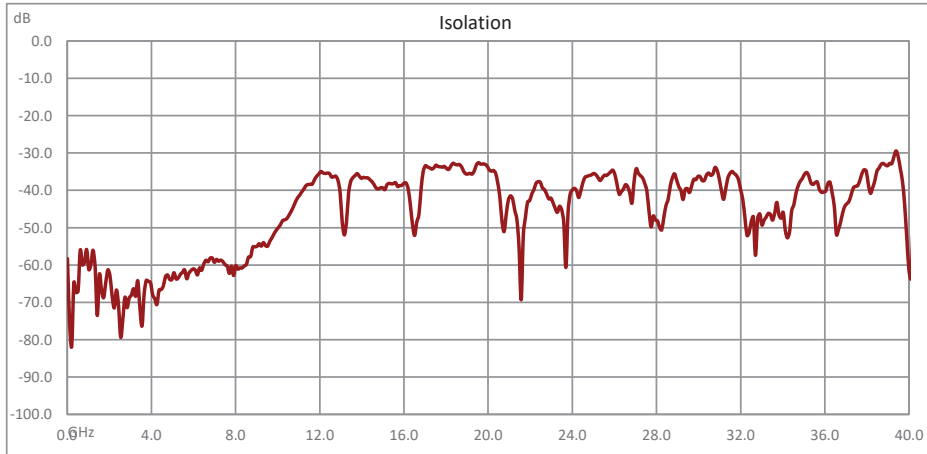
Typical Performance Data



12 KHz to 40 GHz, 2.92mm Broadband Bias Tee, Male Input,
Rated to 150 mA and 16 Volts, DC BNC Connector



FMBT1642



12 KHz to 40 GHz, 2.92mm Broadband Bias Tee, Male Input, Rated to 150 mA and 16 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: [12 KHz to 40 GHz, 2.92mm Broadband Bias Tee, Male Input, Rated to 150 mA and 16 Volts, DC BNC Connector FMBT1642](https://www.fairviewmicrowave.com/bias-tee-0.012-mhz-40-ghz-150-ma-16-volts-dc-fmbt1642-p.aspx)

URL: <https://www.fairviewmicrowave.com/bias-tee-0.012-mhz-40-ghz-150-ma-16-volts-dc-fmbt1642-p.aspx>

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume liability arising out of the use of any part or document.

FMBT1642 CAD Drawing

12 KHz to 40 GHz, 2.92mm Broadband Bias Tee, Male Input, Rated to 150 mA nad 16 Volts, DC BNC Connector

