

50 KHz to 18 GHz SMA Broadband Bias Tee, Rated to 750 mA and 25 Volts, DC SMA Connector

The FMBT1633 is a Broadband Bias Tee that operates from 50 KHz to 18 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 1 dB insertion loss, 50 dB RF to Bias Port Isolation, and 1.4:1 VSWR. The Bias Tee is rated for 0.75 Amps and +25 Volts max DC voltage. The compact package uses an SMA Female connector at the RF input and an SMA Female connector at the RF output. A Female SMA Connector is used for the DC Port. Operational Temperature is +15°C to +30°C.

Electrical Specifications

| Description | Min | Тур | Мах | Units |
|----------------------|-------|-------|-------|-------|
| Frequency Range | 50KHz | | 18 | GHz |
| Impedance | | 50 | | Ohms |
| VSWR | | 1.4:1 | 1.8:1 | |
| Insertion Loss | | 1 | 1.5 | dB |
| RF to Bias Isolation | | 50 | | dB |
| DC Voltage | | | 25 | Vdc |
| DC Current | | | 750 | mA |
| Rise Time | | 9 | | ps |
| | | | | |

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

Mechanical Specifications

| Size | |
|--------|---------------------|
| Length | 1.2 in [30.48 mm] |
| Width | 0.63 in [16 mm] |
| Height | 0.515 in [13.08 mm] |
| Weight | 0.11 lbs [49.9 g] |

Environmental Specifications

| Temperature | |
|-----------------|------------------|
| Operating Range | +15 to +30 deg C |

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:



FMBT1633

DATA SHEET

Configuration:

- RF Port Connector: SMA Female
- DC/RF Port Connector:SMA Female
- DC Port Connector: SMA Female

Features:

- General Purpose
 Broadband Bias Tee
- 50 KHz to 18 GHz Frequency Range
- Insertion Loss: 1 dB Typ
- Isolation: 50 dB typ
- VSWR: 1.4:1 typ
- 50 Ohms Input and Output Matched
- SMA Female RF Input Connector
- SMA Female RF Output Connector
- DC Connector: SMA Female • Operational Temperature:
- +15°C to +30°C
- Rating: 0.75A max DC Current and +25V max DC Voltage

Applications:

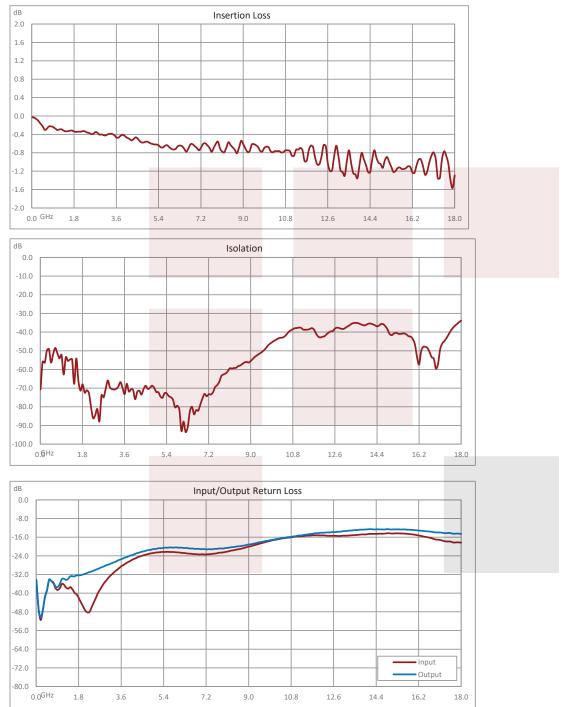
- Biasing for Antenna Amplifiers, Laser Diodes, Photo Diodes, Optical Modulators
- Test & Measurement
- SATCOM
 - Wireless Communications Systems
 - Power over Ethernet
 - Base Stations and Radios

Fairview Microwave 301 Leora Ln., Suite 100 Lewisville, TX 75056 Tel: 1-800-715-4396 / (972) 649-6678 Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com

REV 1 Page 1 of 4 Copyright © 2020 an INFINIT[©] brand



Typical Performance Data



301 Leora Ln., Suite 100, Lewisville, TX 75056 | Tel: 1-800-715-4396 / (972) 649-6678 / Fax: (972) 649-6689

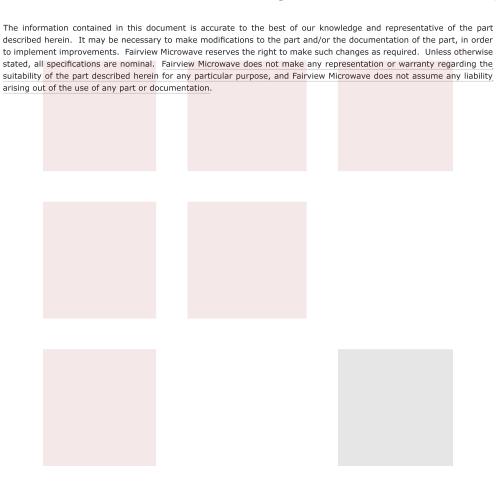




50 KHz to 18 GHz SMA Broadband Bias Tee, Rated to 750 mA and 25 Volts, DC SMA Connector from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: 50 KHz to 18 GHz SMA Broadband Bias Tee, Rated to 750 mA and 25 Volts, DC SMA Connector FMBT1633

URL: https://www.fairviewmicrowave.com/bias-tee-0.05-mhz-18-ghz-750-ma-25-volts-dc-fmbt1633-p.aspx

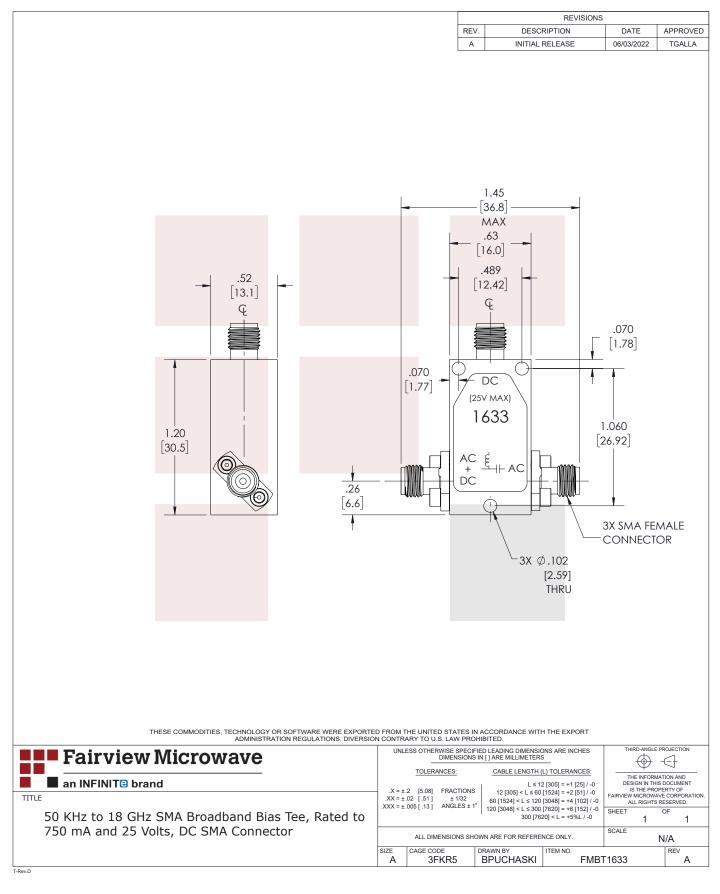


301 Leora Ln., Suite 100, Lewisville, TX 75056 | Tel: 1-800-715-4396 / (972) 649-6678 / Fax: (972) 649-6689

Fairview Microwave







301 Leora Ln., Suite 100, Lewisville, TX 75056 | Tel: 1-800-715-4396 / (972) 649-6678 / Fax: (972) 649-6689