

50 KHz to 26 GHz SMA Broadband Bias Tee, Rated to 750 mA and 25 Volts, DC BNC Connector



PE1637

Features

- General Purpose Broadband Bias Tee
- 50 KHz to 26 GHz Frequency Range
- Insertion Loss: 1.4 dB Typ
- Isolation: 50 dB typ
- VSWR: 1.5:1 typ
- 50 Ohms Input and Output Matched
- SMA Female RF Input Connector
- SMA Female RF Output Connector
- DC Connector: BNC 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

Description

The PE1637 is a Broadband Bias Tee that operates from 50 KHz to 26 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 1.4 dB insertion loss, 50 dB RF to Bias Port Isolation, and 1.5:1 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 BNC Connector is used for the DC Port. Operational Temperature is +15°C to +30°C.

Configuration

Design	Broadband
RF Port Connectors	SMA Female
DC Port Connector	BNC Female
DC/RF Port Connector	SMA Female

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	50KHz		26	GHz
Impedance	50			Ohms
VSWR	1.5:1		1.8:1	
Insertion Loss	1.4		3	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.

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Mechanical Specifications

Size

Length	1.2 in [30.48 mm]
Width	0.63 in [16 mm]
Height	0.515 in [13.08 mm]
Weight	0.05 lbs [22.68 g]

Environmental Specifications

Temperature

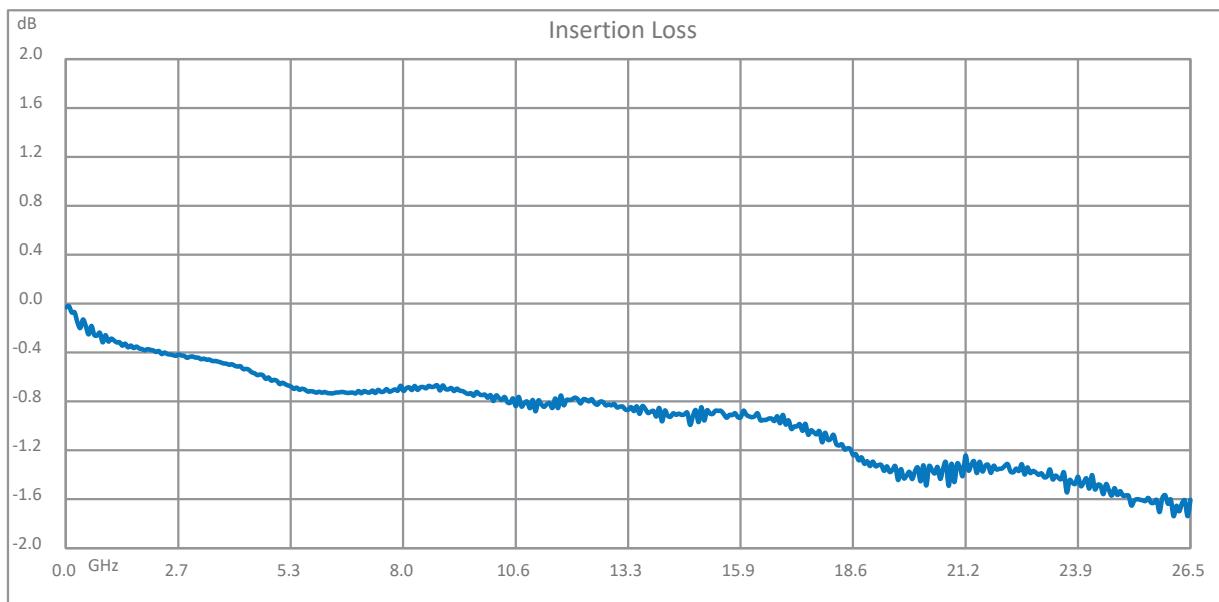
Operating Range +15 to +30 deg C

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

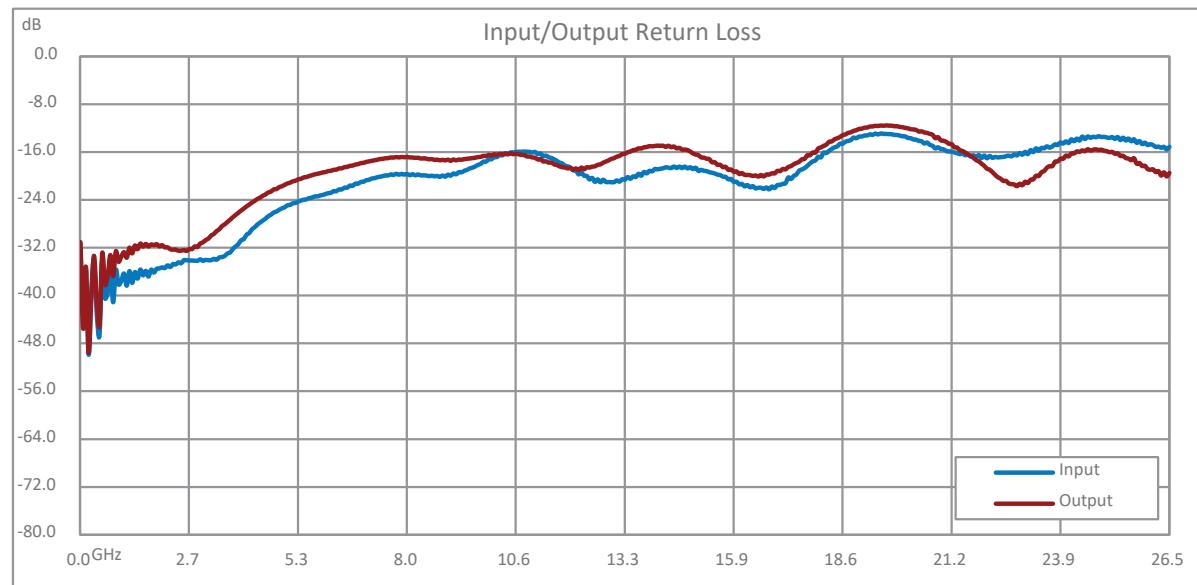
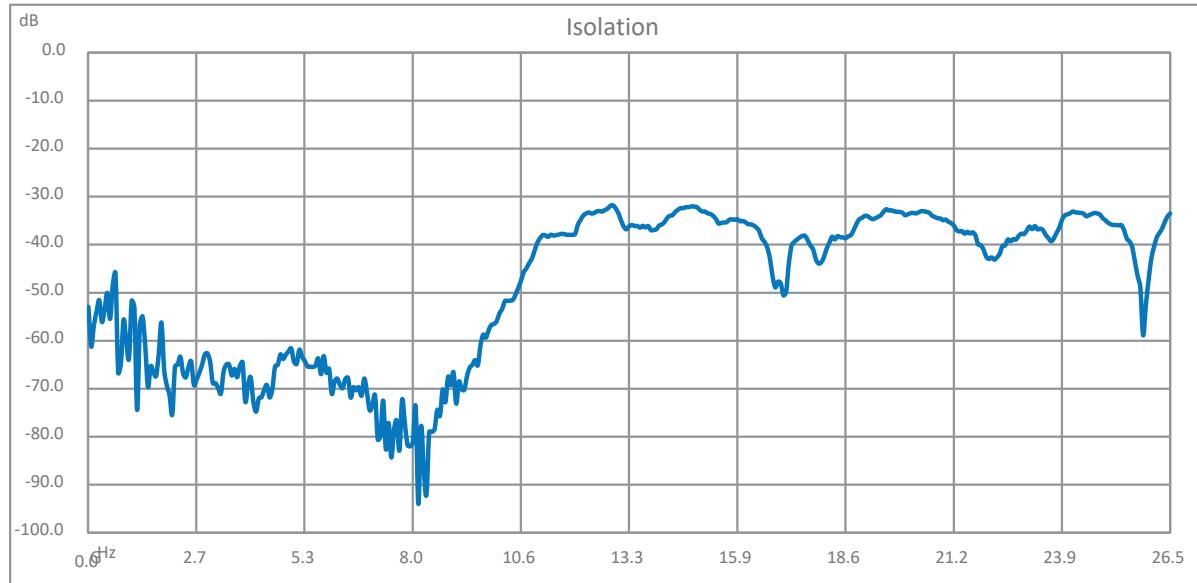
Typical Performance Data



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50 KHz to 26 GHz SMA Broadband Bias Tee, Rated to 750 mA and 25 Volts, DC BNC Connector from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [50 KHz to 26 GHz SMA Broadband Bias Tee, Rated to 750 mA and 25 Volts, DC BNC Connector PE1637](#)

URL: <https://www.pasternack.com/0.05-mhz-26-ghz-bias-tee-750-ma-25-volts-dc-pe1637-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. Pasternack Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE1637 CAD Drawing

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