

1 GHz to 6 GHz SMA High Current Bias Tee, Rated 7 Amps and 100 Volts, DC BNC Connector



Bias Tees Technical Data Sheet

PE1655

Features

- High Current Bias Tee
- 1 GHz to 6 GHz Frequency Range
- Insertion Loss: 0.5 dB Typ
- Isolation: 25 dB typ
- VSWR: 1.2:1 typ
- RF Input Power Handling 50W max
- 50 Ohms Input and Output Matched

- SMA Male RF Input Connector
- SMA Female RF Output Connector
- DC Connector:BNC Female
- Operational Temperature: -55°C to +105°C
- Rating: 7 Amps DC Current and +100V max DC Voltage

Applications

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

Description

The PE1655 is a High Current Bias Tee that operates from 1 GHz to 6 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 0.5 dB insertion loss, 25 dB RF to Bias Port Isolation, and 1.2:1 VSWR. The Bias Tee is rated for 7 Amps and +100 Volts max DC voltage. Maximum RF input power handling is 50W. The compact package uses an SMA Male connector at the RF input and an SMA Female connector at the RF output. A BNC Female connector is used for the DC port. Operational Temperature is -55°C to +105°C.

Configuration

RF Port Connector
DC/RF Port Connector
DC Port Connector

SMA Male
SMA Female
BNC Female

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	1		6	GHz
Impedance		50		Ohms
VSWR		1.2:1	1.5:1	
Insertion Loss		0.5	1	dB
RF to Bias Isolation		25		dB
DC Voltage			100	Vdc
DC Current			7	A
Input Power (CW)			50	Watts

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [1 GHz to 6 GHz SMA High Current Bias Tee, Rated 7 Amps and 100 Volts, DC BNC Connector PE1655](#)

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Bias Path Resistance	0.01	0.01	Ohm
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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]
Height	0.55 in [13.97 mm]
Weight	0.05 lbs [22.68 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:

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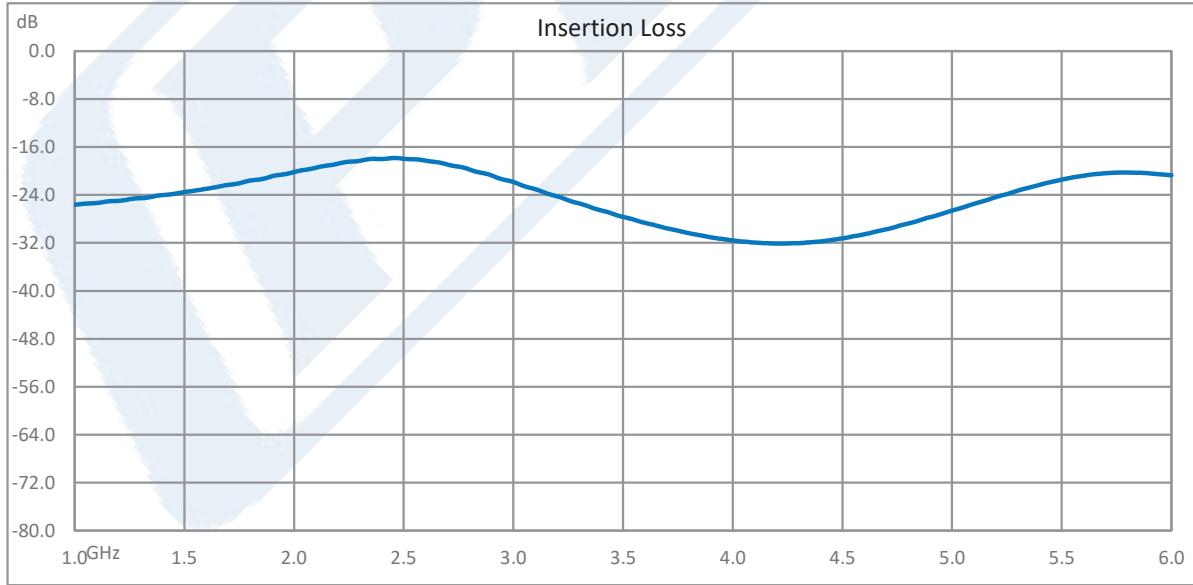
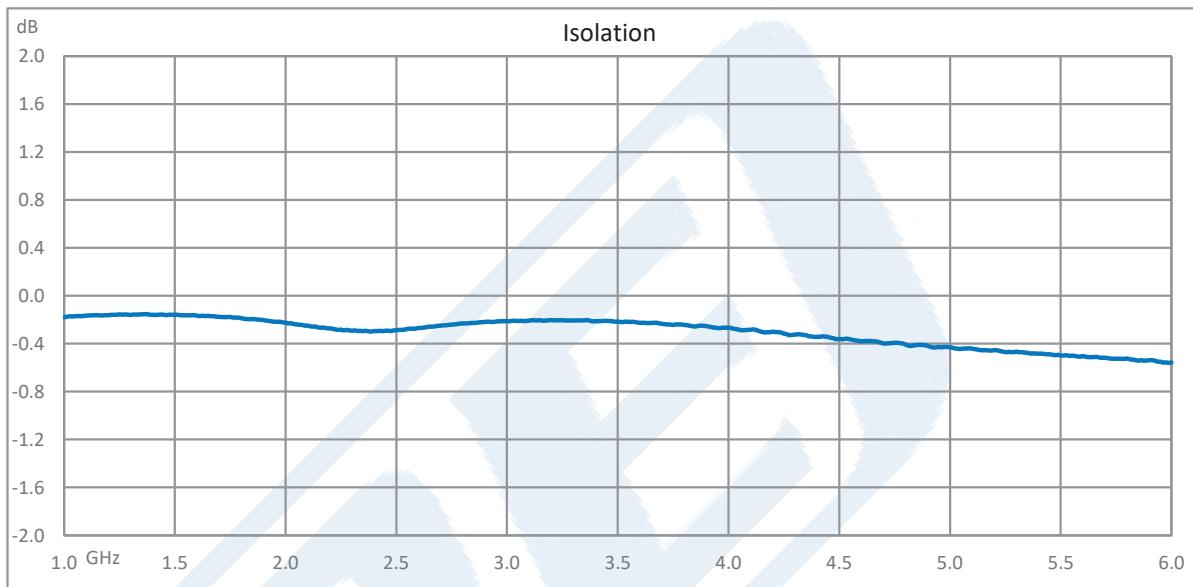
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Typical Performance Data



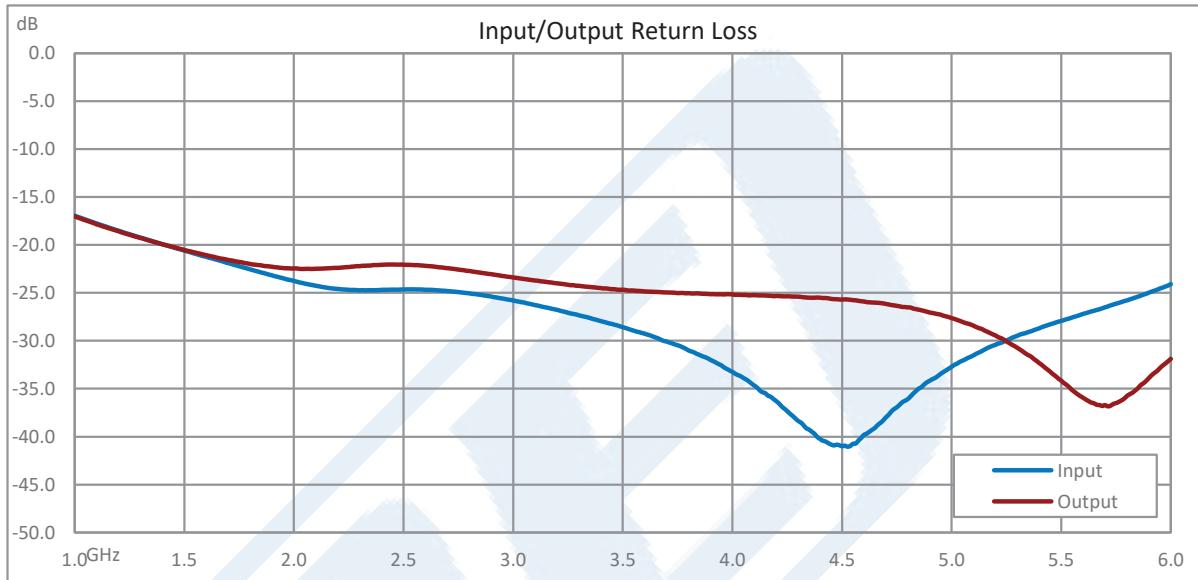
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URL: <https://www.pasternack.com/1-6-ghz-bias-tee-7000-ma-100-volts-dc-pe1655-p.aspx>

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