



0.5 GHz to 2 GHz N Type High Current Bias Tee, Rated 7 Amps and 100 Volts, DC SMA Connector

Bias Tees Technical Data Sheet

PE1658

Features

- High Current Bias Tee
- 1 GHz to 6 GHz Frequency Range
- Insertion Loss: 0.2 dB Typ
- Isolation: 30 dB typ
- VSWR: 1.2:1 typ
- RF Input Power Handling 50W max
- 50 Ohms Input and Output Matched
- N Type Male RF Input Connector
- N Type Female RF Output Connector
- DC Connector: SMA 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
- SATCOM
- Wireless Communications
- Systems
- Power over Ethernet
- Base Stations and Radios

Description

The PE1658 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 0.2 dB insertion loss, 30 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 N Type Male connector at the RF input and an N Type Female connector at the RF output. An SMA Female Connector is used for the DC port. Operational Temperature is -55°C to +105°C.

Configuration

RF Port Connector	N Male
DC/RF Port Connector	N Female
DC Port Connector	SMA Female

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	0.5		2	GHz
Impedance		50		Ohms
VSWR		1.2:1	1.4:1	
Insertion Loss		0.2	0.5	dB
RF to Bias Isolation		30		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: [0.5 GHz to 2 GHz N Type High Current Bias Tee, Rated 7 Amps and 100 Volts, DC SMA Connector PE1658](#)



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3dB Bandwidth	8	10	KHz
Electrical Specification Notes: Values at +25°C, sea level.			

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Values at +25°C, sea level.

Mechanical Specifications

Size

Length	1.29 in [32.77 mm]
Width	0.85 in [21.59 mm]
Height	1 in [25.4 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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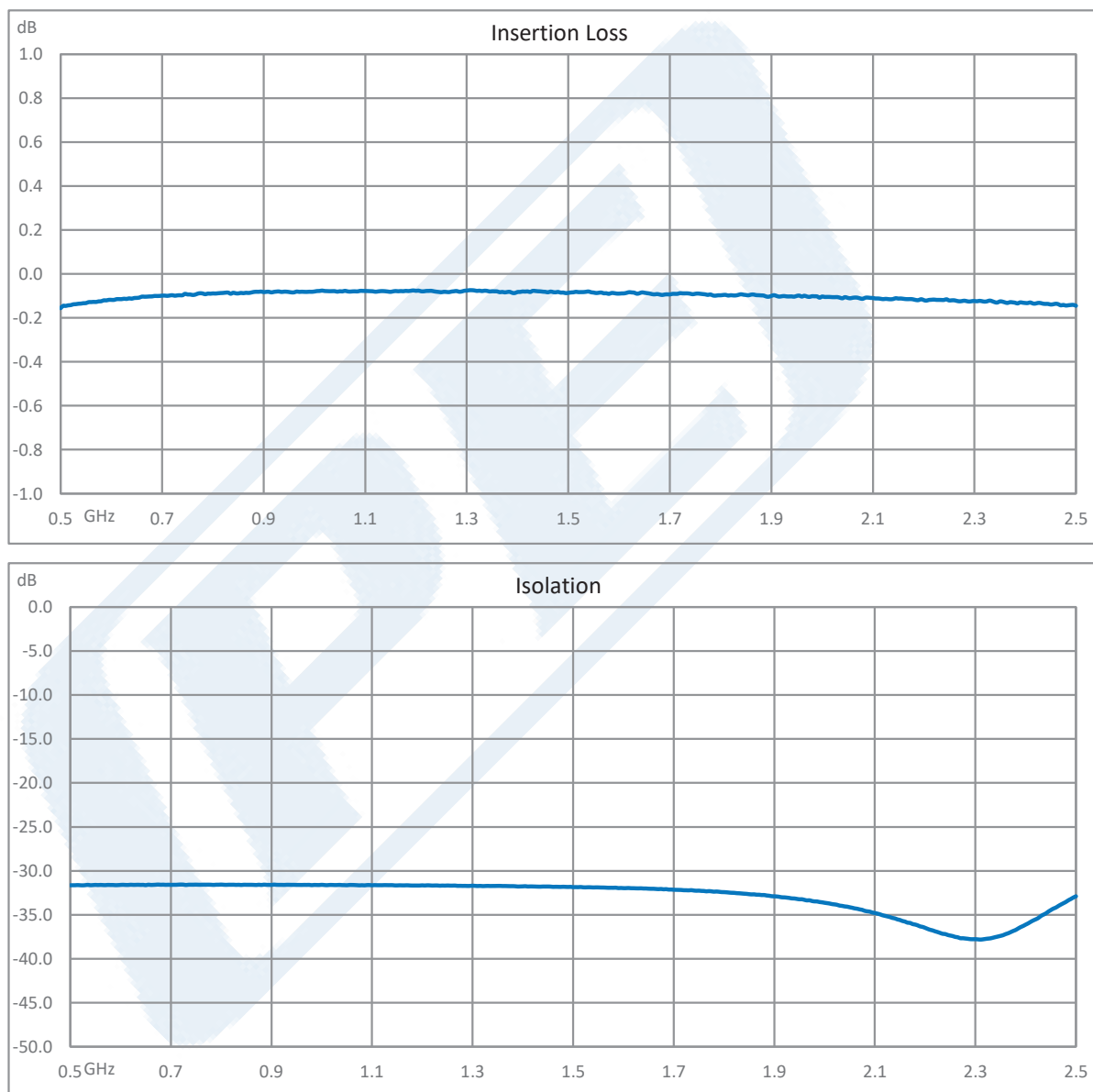


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Typical Performance Data



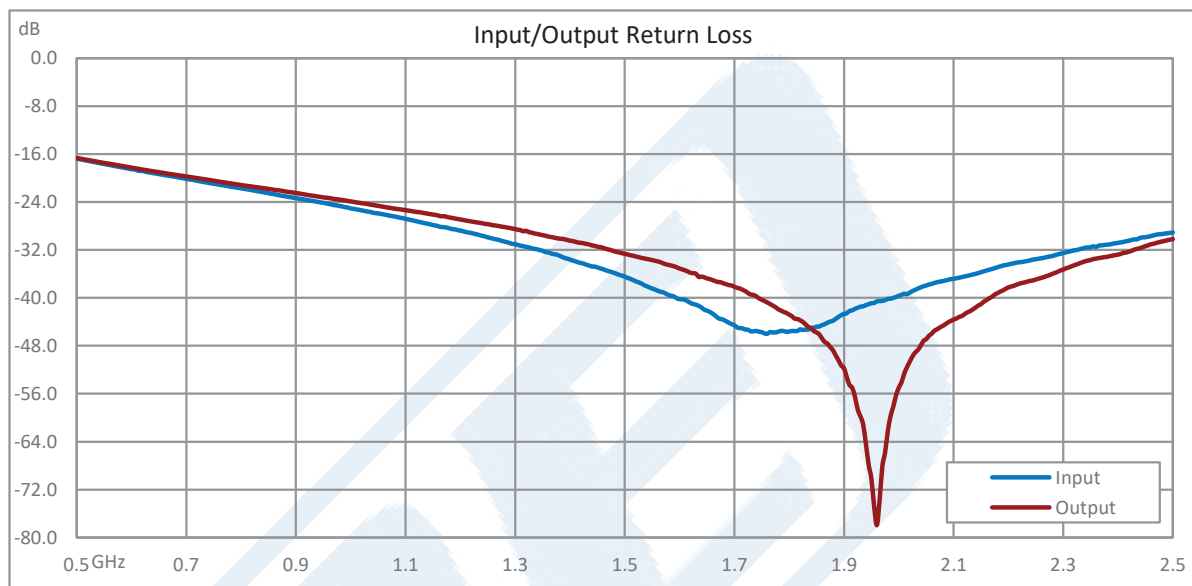
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