

10 MHz to 2.5 GHz N Broadband Bias Tee, Male Input,  
Rated to 2.5 Amps and 100 Volts, DC Pin

## Bias Tees Technical Data Sheet

**PE1625**

### Features

- General Purpose Broadband Bias Tee
- 10 MHz to 2.5 GHz Frequency Range
- Insertion Loss: 0.2 dB Typ
- Isolation: 50 dB typ
- VSWR: 1.1:1 typ
- RF Input Power Handling 5W max
- 50 Ohms Input and Output Matched
- N Type Male RF Input Connector
- N Type Female RF Output Connector
- DC Connector: Solder Post Pin
- Operational Temperature: -55°C to +105°C
- Rating: 2.5A max 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 PE1625 is a Broadband Bias Tee that operates from 10 MHz to 2.5 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, 50 dB Isolation, and 1.1:1 VSWR. The Bias Tee is rated for 2.5 Amps and +100 Volts max DC voltage. Maximum RF input power handling is 5W. The compact package uses an N Type Male connector at the RF input and an N Type Female connector at the RF output. A Solder Post Pin is used for the DC Connector. Operational Temperature is -55°C to +105°C.

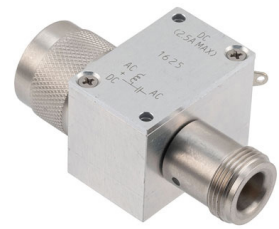
### Configuration

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

### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	0.01		2.5	GHz
Impedance		50		Ohms
VSWR		1.1:1	1.5:1	
Insertion Loss		0.2	1	dB
RF to Bias Isolation		50		dB
DC Voltage			100	Vdc
DC Current			2.5	A
Input Power (CW)			5	Watts

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [10 MHz to 2.5 GHz N Broadband Bias Tee, Male Input, Rated to 2.5 Amps and 100 Volts, DC Pin PE1625](#)



10 MHz to 2.5 GHz N Broadband Bias Tee, Male Input,  
Rated to 2.5 Amps and 100 Volts, DC Pin

## Bias Tees Technical Data Sheet

**PE1625**

Bias Path Resistance	0.04	0.05	Ohm
3dB Bandwidth	0.005	15	GHz

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	1 in [25.4 mm]
Weight	0.05 lbs [22.68 g]

### Environmental Specifications

#### Temperature

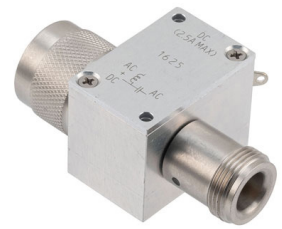
Operating Range	-55 to +105 deg C
Storage Range	-60 to +90 deg C

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

### Plotted and Other Data

Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [10 MHz to 2.5 GHz N Broadband Bias Tee, Male Input, Rated to 2.5 Amps and 100 Volts, DC Pin PE1625](#)

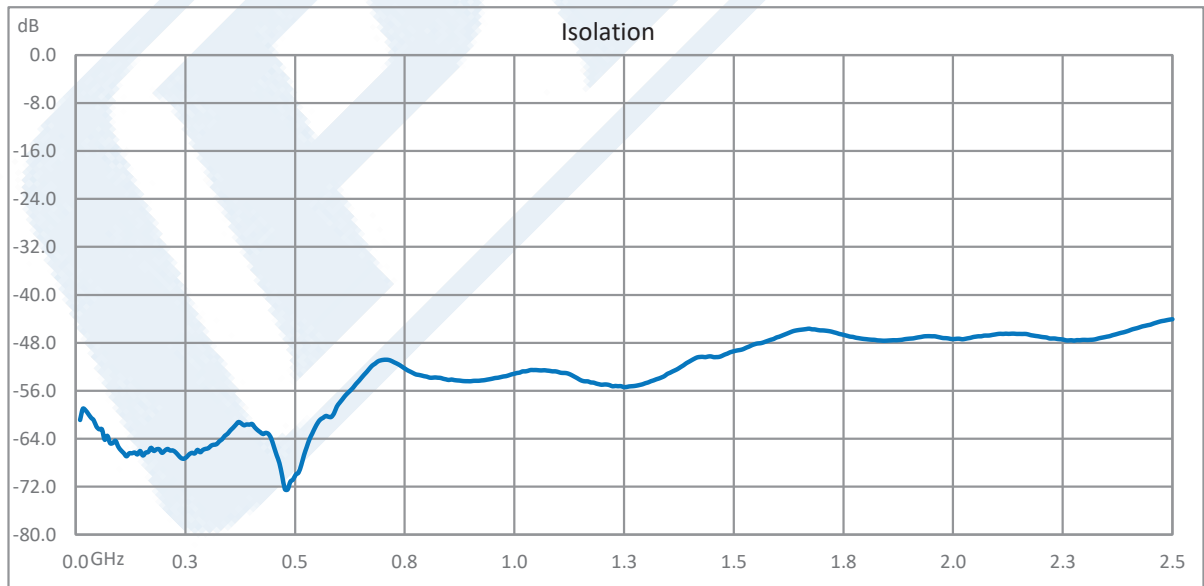
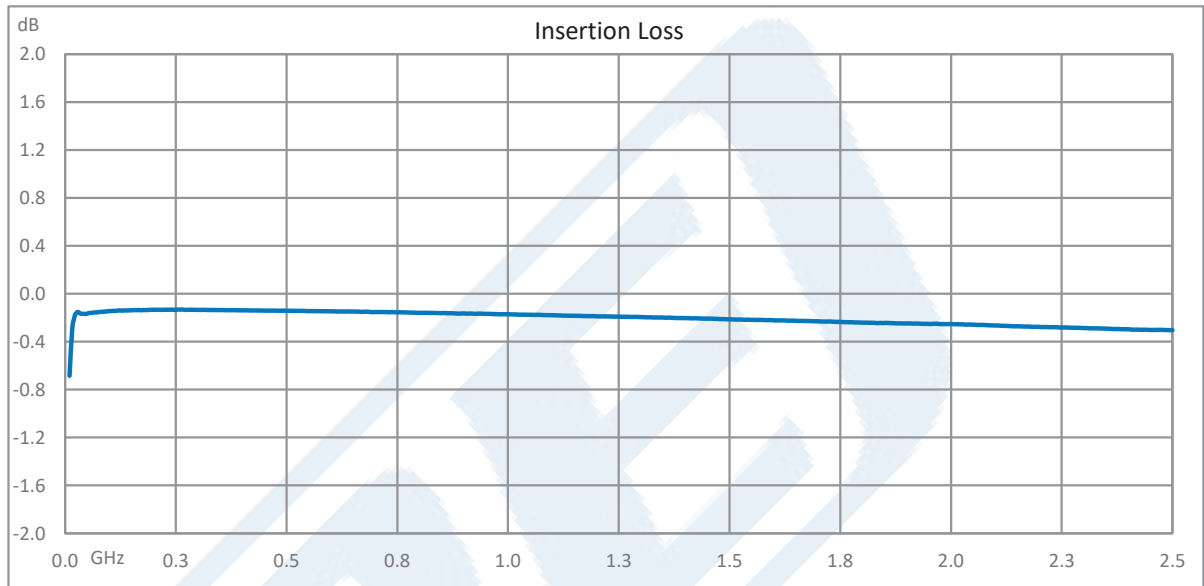


10 MHz to 2.5 GHz N Broadband Bias Tee, Male Input,  
Rated to 2.5 Amps and 100 Volts, DC Pin

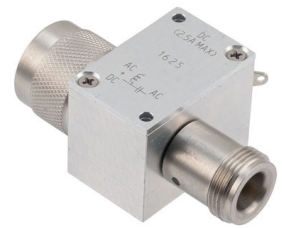
**Bias Tees Technical Data Sheet**

**PE1625**

**Typical Performance Data**



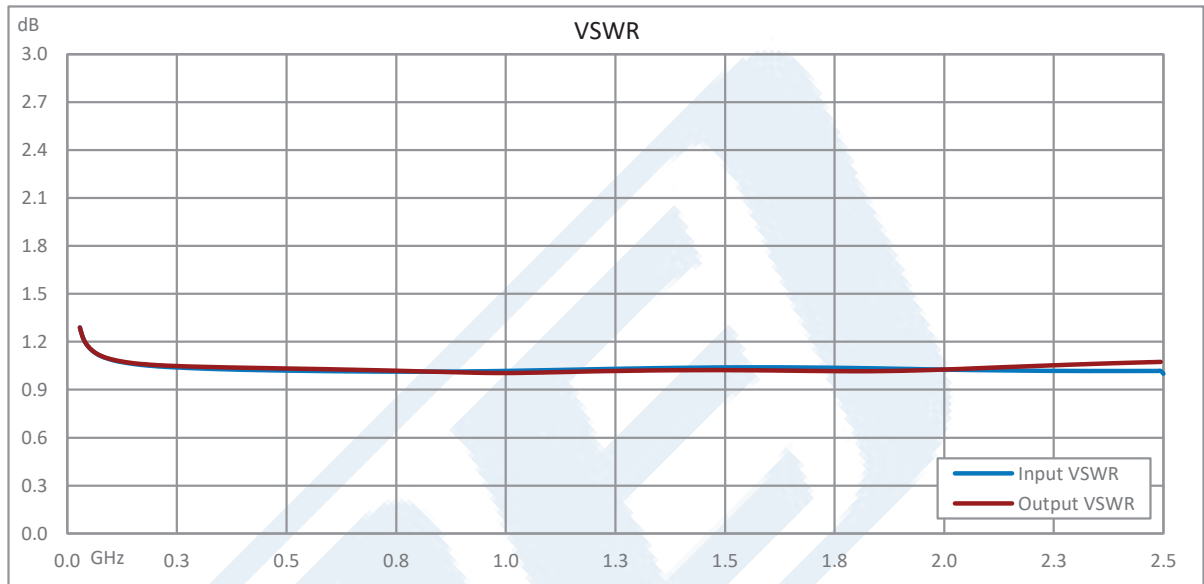
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [10 MHz to 2.5 GHz N Broadband Bias Tee, Male Input, Rated to 2.5 Amps and 100 Volts, DC Pin PE1625](#)



10 MHz to 2.5 GHz N Broadband Bias Tee, Male Input,  
Rated to 2.5 Amps and 100 Volts, DC Pin

## Bias Tees Technical Data Sheet

**PE1625**



10 MHz to 2.5 GHz N Broadband Bias Tee, Male Input, Rated to 2.5 Amps and 100 Volts, DC Pin 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: [10 MHz to 2.5 GHz N Broadband Bias Tee, Male Input, Rated to 2.5 Amps and 100 Volts, DC Pin PE1625](https://www.pasternack.com/n-bias-tee-10-mhz-2.5-ghz-2500-ma-100-volts-dc-pe1625-p.aspx)

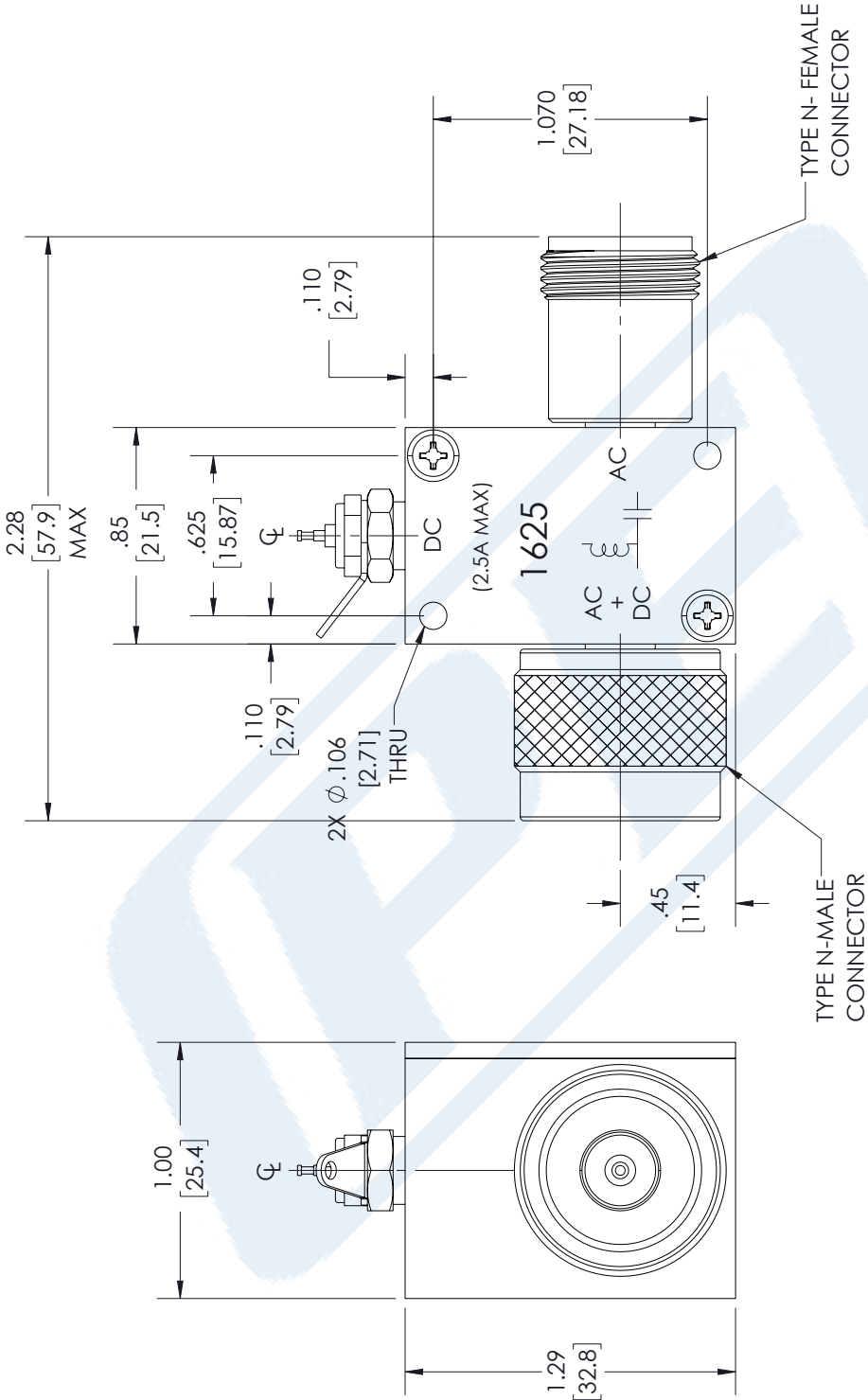
URL: <https://www.pasternack.com/n-bias-tee-10-mhz-2.5-ghz-2500-ma-100-volts-dc-pe1625-p.aspx>

The information contained in 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 reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

# PE1625 CAD Drawing

10 MHz to 2.5 GHz N Broadband Bias Tee, Male Input,  
Rated to 2.5 Amps and 100 Volts, DC Pin

REVISIONS		
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	06/03/2022
		APPROVED
		TGALLA



UNLESS OTHERWISE SPECIFIED  
LEADING DIMENSIONS ARE INCHES  
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:

.X = ±.2	[5.08]	FRACTIONS
.XX = ±.02	[.51]	± 1/32
.XXX = ±.005	[.13]	ANGLES ± 1°

CABLE LENGTH (L) TOLERANCES:

L ≤ 12	[305]	= +1 [25] / -0
12 [305] < L ≤ 60	[1524]	= +2 [51] / -0
60 [1524] < L ≤ 120	[3048]	= +4 [102] / -0
120 [3048] < L ≤ 300	[7620]	= +6 [152] / -0
300 [7620] < L		= +5%L / -0

ALL DIMENSIONS SHOWN  
ARE FOR REFERENCE ONLY.

**PE PASTERNAK**  
an INFINITI® brand

Pasternack Enterprises, Inc.  
P.O. Box 16759, Irvine, CA 92623.  
Phone: 1.949.261.1920 | 1.866.727.8376  
Fax: 1.949.261.7451  
Website: www.pasternack.com  
E-mail: sales@pasternack.com

THIRD-ANGLE PROJECTION

THE INFORMATION AND  
DESIGN IN THIS DOCUMENT  
IS THE PROPERTY OF  
PASTERNAK CORPORATION  
ALL RIGHTS RESERVED.

SHEET 1 OF 1  
SCALE N/A

REV A

ITEM NO. PE1625

DRAWN BY BPUCHASKI

CAGE CODE A 53919

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.