



0.1 MHz to 26.5 GHz 3.5mm Bias Tee
 Rated to 750 mA And 25 Volts DC

Bias Tees Technical Data Sheet

PE1608

Features

- 0.1 MHz to 26.5 GHz Frequency Range
- Isolation 30 dB Min
- Insertion Loss < 3 dB
- 750 mA / 25 VDC Bias

Applications

- Amplifier Biasing
- DC Return / Block
- Transmitting Power With a Single
- Coax
- Test and Measurement
- Communication Systems
- Wireless Systems

Description

Pasternack's PE1608 is a 3.5mm bias tee (also known as bias T) that operates from 0.1 MHz to 26.5 GHz with a bias rating of 750 mA and 25 VDC. This bias tee is configured with 3.5mm inputs on the RF ports and solder pin on the bias port. PE1608 3.5mm bias T offers good electrical performance featuring 3 dB max insertion loss and 30 dB min isolation.

Bias tees are typically used to inject a DC signal into an RF path such as when biasing an amplifier or any other active device, supplying power to the connected output without disrupting the RF signal. They can also be used as DC returns to provide a ground return path for the input device or DC blocks to prevent direct current signals from flowing through the output device. Pasternack's bias tees are available in various connector configurations over different frequency bands to fit your needs, all of which ship the same day.

Configuration

RF Port Connector	3.5mm Female
DC/RF Port Connector	3.5mm Female
DC Port Connector	Solder Pin

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	0.0001		26.5	GHz
Impedance		50		Ohms
VSWR			1.8:1	
Insertion Loss			3	dB
RF to Bias Isolation	30			dB
DC Voltage			25	Vdc
DC Current			750	mA
Input Power (CW)			1	Watts

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [0.1 MHz to 26.5 GHz 3.5mm Bias Tee Rated to 750 mA And 25 Volts DC PE1608](#)



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Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	0.0001 to 0.5	0.5 to 12.4	12.4 to 26.5			GHz
Insertion Loss, Max		1.5	3			

Electrical Specification Notes:
Values at +25°C, sea level.
Insertion loss is specified from 0.5 GHz.

Mechanical Specifications

Size

Length	1.38 in [35.05 mm]
Width	0.5 in [12.7 mm]
Height	1.565 in [39.75 mm]
Weight	0.041 lbs [18.6 g]
Package Type	Connectorized
Housing Material and Plating	Brass, Gold

Connectors

Description	RF Port Connector	RF/DC Port Connector	DC Port Connector
Type	3.5mm Female	3.5mm Female	Solder Pin
Inner Conductor Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold	
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel	

Environmental Specifications

Temperature

Operating Range	-20 to +60 deg C
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Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

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0.1 MHz to 26.5 GHz 3.5mm Bias Tee Rated to 750 mA And 25 Volts DC from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

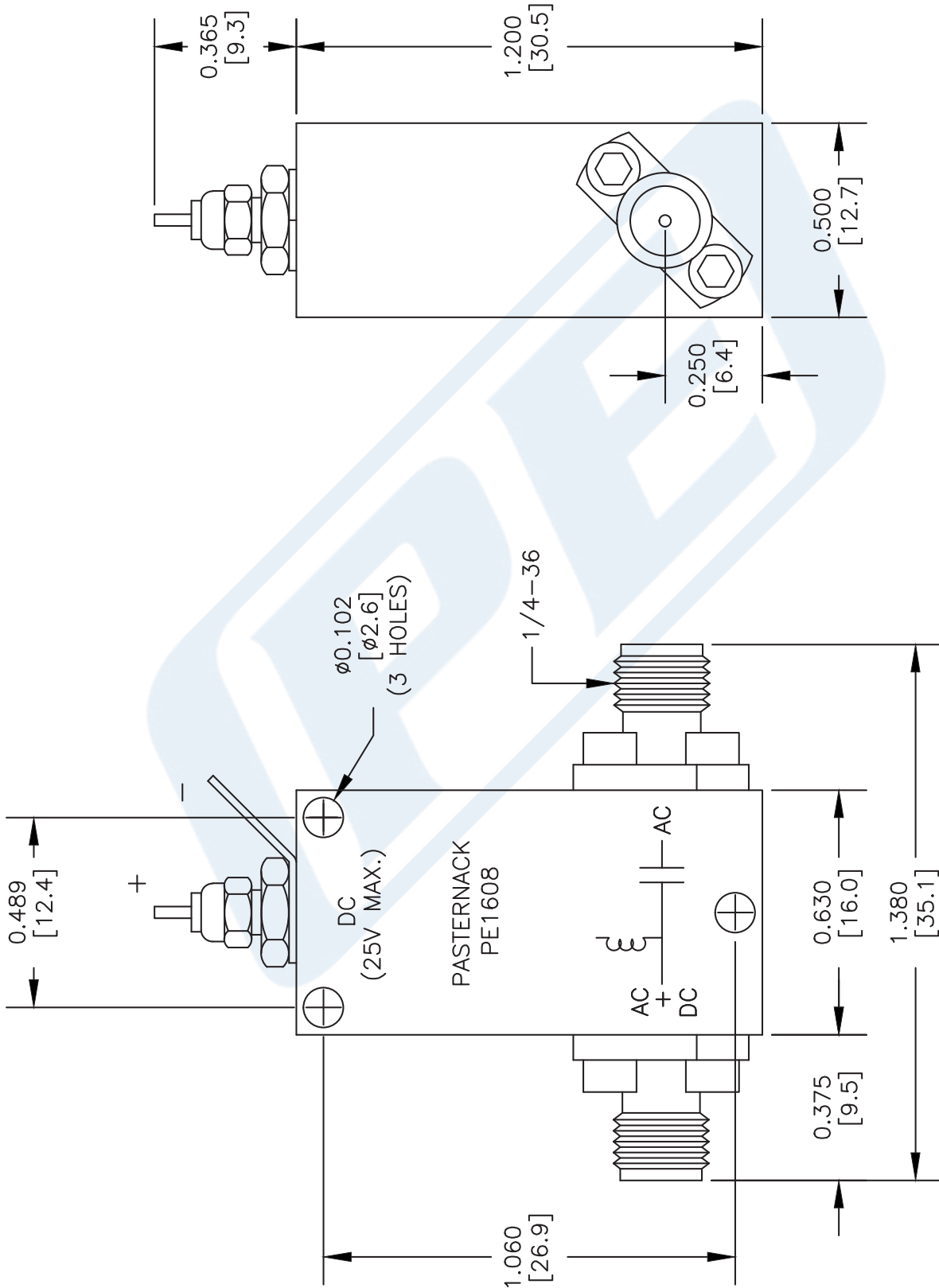
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [0.1 MHz to 26.5 GHz 3.5mm Bias Tee Rated to 750 mA And 25 Volts DC PE1608](https://www.pasternack.com/0.1-mhz-26.5-ghz-3.5mm-bias-tee-750-ma-25-volts-dc-pe1608-p.aspx)

URL: <https://www.pasternack.com/0.1-mhz-26.5-ghz-3.5mm-bias-tee-750-ma-25-volts-dc-pe1608-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.

PE1608 CAD Drawing

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NOTES:
 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
 3. DIMENSIONS ARE IN INCHES [mm].

DWG TITLE
PE1608

FSCM NO. 53919

XXXX

SIZE A

SCALE N/A

CAD FILE 102710-A

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