



Wireless Systems

1 GHz to 5 GHz SMA Bias Tee Rated to 1000 mA And 50 Volts DC

Bias Tees Technical Data Sheet

PE1603

Features

- · 1 GHz to 5 GHz Frequency Range
- Isolation 25 dB Typ

- Insertion Loss < 1.25 dB
- 1,000 mA / 50 VDC Bias

Applications

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

Description

Pasternack's PE1603 is an SMA bias tee (also known as bias T) that operates from 1 GHz to 5 GHz with a bias rating of 1,000 mA and 50 VDC. This bias tee is configured with SMA inputs on the RF ports and solder pin on the bias port. PE1603 SMA bias T offers good electrical performance featuring 1.25 dB max insertion loss and 25 dB typical 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

Design Broadband
RF Port Connector SMA Female
RF Port Connector Specification MIL-STD-348
DC/RF Port Connector SMA Female
DC Port Connector Solder Pin
Sense Input Port Connector Specification MIL-STD-348

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	1		5	GHz
Impedance		50		Ohms
VSWR			1.5:1	
Insertion Loss			1.25	dB
RF to Bias Isolation				
		25		dB
DC Voltage			50	Vdc
DC Current			1	Α
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: 1 GHz to 5 GHz SMA Bias Tee Rated to 1000 mA And 50 Volts DC PE1603

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451

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Electrical Specification Notes: Values at +25°C, sea level.

Mechanical Specifications

Size

 Length
 2 in [50.8 mm]

 Width
 0.55 in [13.97 mm]

 Height
 1.525 in [38.74 mm]

 Weight
 0.0565 lbs [25.63 g]

Package Type Connectorized Housing Material and Plating Aluminum

Connectors

Description	RF Port Connector	Sense Port Connector	DC Input Port Connector
Туре	SMA Female	SMA 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 -55 to +105 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

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1 GHz to 5 GHz SMA Bias Tee Rated to 1000 mA And 50 Volts DC 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.

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URL: https://www.pasternack.com/1000-mhz-5-ghz-sma-bias-tee-1000-ma-50-volts-dc-pe1603-p.aspx

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PE1603 CAD Drawing

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