Bias Tee

BT-0012

750 KHz to 12 GHz, 500 mA and 2000 VDC, N

HZ-THZ

Description

HZ-THZ BT-0012 is a N bias tee (also known as bias T) that operates from 750 KHz to 12 GHz with a bias rating of 2000 VDC and 500 mA. This bias tee is configured with N inputs on the RF ports and N on the bias port. BT-0012 SMA bias T offers good electrical performance featuring 1.0 dB insertion loss and 30 dB 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. HZ-THZ bias tees are available in various connector configurations over different frequency bands to fit your needs, all of which shipped worldwide the same day.

Features

- Broadband: 750 MHz to 12 GHz
- Low Insertion Loss
- Isolation 30 dB
- 500 mA / 2000 VDC Bias
- RF Power 20 W Max

Applications

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

Configuration

RF Port Connector
DC/RF Port Connector
DC Port Connector

N Female N Female BNC Female 750 KHz to 12 GHz, 500 mA and 2000 VDC, N

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	0.00075		12	GHz
Impedance		50		Ohms
VSWR		1.75	2.0	: 1
Insertion Loss		1.0	3.0	dB
RF to Bias Isolation		30		dB
DC Current			500	mA
DC Voltage			2000	Vdc
RF Power			20	W
DC Resistance		0.8		Ω
Inductance		470		uН
Capacitance		0.001		uF
Risetime/Falltime		10		ps
Operating Temperature	-55		+105	$^{\circ}\!\mathbb{C}$
Storage Temperature	-55		+125	$^{\circ}\! \mathbb{C}$

Electrical Specification Notes:

Values at +25°C, sea level.

Mechanical Specifications

Size

 Length
 2.83 in [72.50 mm]

 Width
 2.50 in [63.50 mm]

 Height
 0.87 in [22.00 mm]

Weight 0.11 lbs [50.00 g]

Package Type Customized

Outline Drawings

Unit: mm

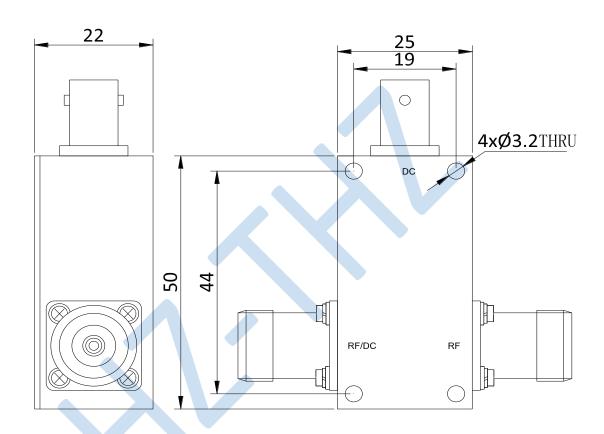
Tolerance: ±0.05 mm

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How To Order

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Pls send request to sales@hz-thz.com.