

Description

HZ-THZ BT-0065 is a 1.85mm bias tee (also known as bias T) that operates from 50 KHz to 65 GHz with a bias rating of 10 VDC and 400 mA. This bias tee is configured with 1.85mm inputs on the RF ports and 1.85mm on the bias port. BT-0065 1.85mm bias T offers good electrical performance featuring 1.8 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: 50 KHz to 65 GHz
- Low Insertion Loss
- Isolation 30 dB
- 400 mA / 10 VDC Bias
- RF Power 1 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 | 1.85mm Female |
| DC/RF Port Connector | 1.85mm Female |
| DC Port Connector | SMA Female |

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-----------------------|---------|---------|---------|--------------|
| Frequency Range | 0.00005 | | 65 | GHz |
| Impedance | | 50 | | Ohms |
| VSWR | | 1.5 | 2.4 | : 1 |
| Insertion Loss | | 1.8 | 3.0 | dB |
| RF to Bias Isolation | | 30 | | dB |
| DC Current | | | 400 | mA |
| DC Voltage | | | 10 | Vdc |
| RF Power | | | 1 | W |
| DC Resistance | | 0.8 | | Ω |
| Inductance | | 470 | | μ H |
| Capacitance | | 0.1 | | μ F |
| Risetime/Falltime | | 10 | | ps |
| Operating Temperature | -55 | | +105 | $^{\circ}$ C |
| Storage Temperature | -55 | | +125 | $^{\circ}$ C |

Electrical Specification Notes:

Values at +25 $^{\circ}$ C, sea level.

Mechanical Specifications

Size

Length 1.72 in [43.80 mm]
Width 1.20 in [30.60 mm]
Height 0.51 in [13.00 mm]

Weight 0.07 lbs [30.00 g]

Package Type Customized

Outline Drawings

Unit: mm

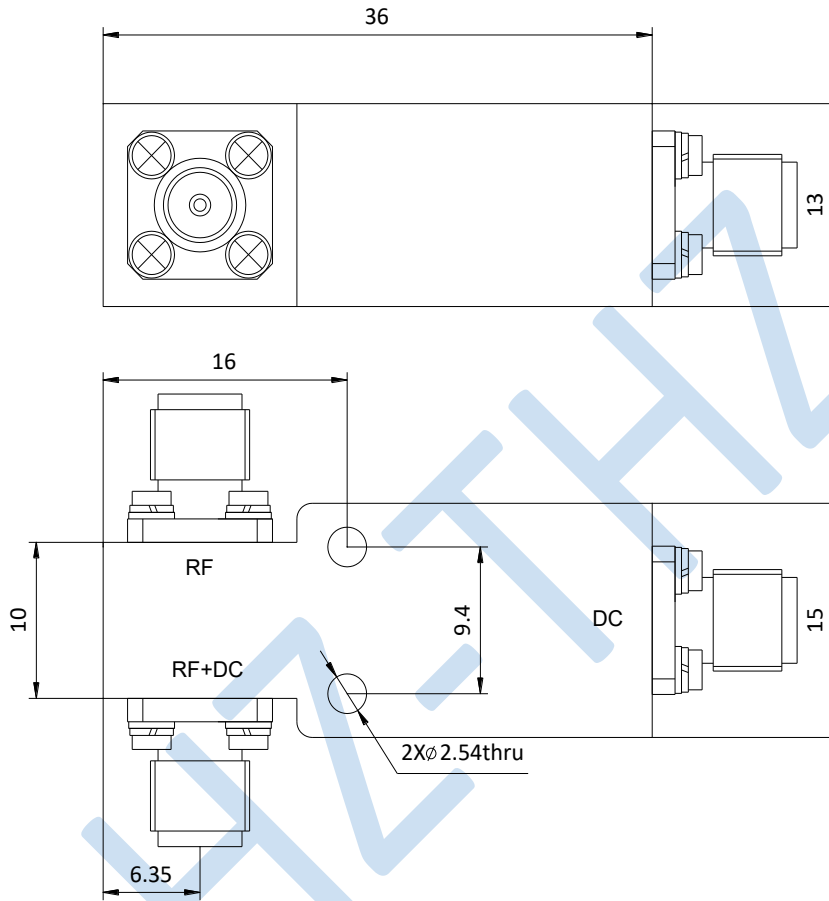
Tolerance: \pm 0.05 mm

Bias Tee

BT-0065

50 KHz to 65 GHz, 400 mA and 10 VDC, 1.85mm

HZ-THZ



How To Order

BT-0065

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