

# 1506 Bias-T



BT2001

## 100 V Bias Tee

The bias tee is an ultra-broadband, 500 mA current, coaxial bias insertion tee and 100 V DC blocking capacitor that passes high bandwidth pulses with very low waveform distortion. Its rise time is only 7 ps and its frequency response is flat over many decades from 20 kHz to beyond 50 GHz.

### FEATURES

- Low Insertion Loss
- High Power
- Non-Resonant
- Compact Size

### USE IN

- Wideband Amplifier
- Fiber Optic Communication
- Laser Driven
- Optical Modulator Drive
- GPS Active Antenna

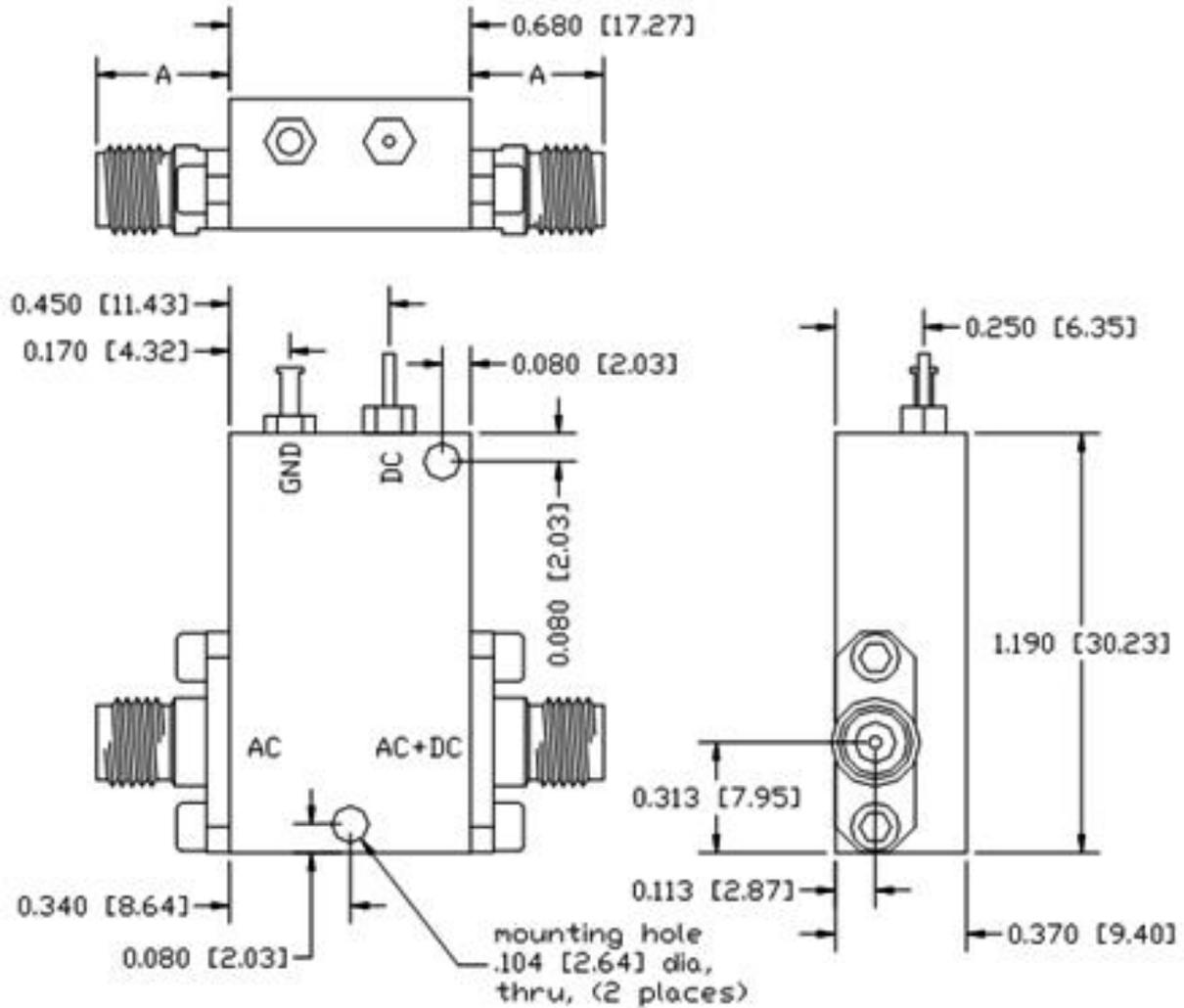
Impedance	50 ohms typ.
Upper 3 dB Frequency	50 GHz min.
Lower 3 dB Frequency	20 kHz typ.
Rise Time (10% to 90%)	7 ps typ.
Insertion Loss (2.4 mm f<50 GHz)	3 dB max.
Input (AC) Return Loss (2.4 mm f<50 GHz)	10 dB min.
Output (AC+DC), Return Loss (2.4 mm f<50 GHz)	8 dB min.
DC Voltage	100 V max.
DC Current	500 mA max.
Capacitance	0.2 $\mu$ F typ.
Inductance	0.5 mH typ.
Resistance	1.5 ohms typ.
RF Power	5 W max.
Isolation (f>100 MHz)	30 dB typ. max.
DC Path Bandwidth	22 kHz typ.
RF Connectors	2.4 mm Jacks (f)
DC Connector	Solder Pin

**Order notes to our customers:** The default parameters are as follows. For special needs, please contact sales.  
**1) Connector FC/APC, 900  $\mu$ m, 1 m by default for all devices except for high power devices.**  
**2) Slow axis working, fast axis blocked, connector key is aligned to slow axis by default for PM devices.**

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## MECHANICAL DRAWING



Connector Type	Dimension A female
2.4mm	.430 [10.92]

All dimensions in inches and [millimeters]  
Tolerance = ±.005 inches [0.13mm]

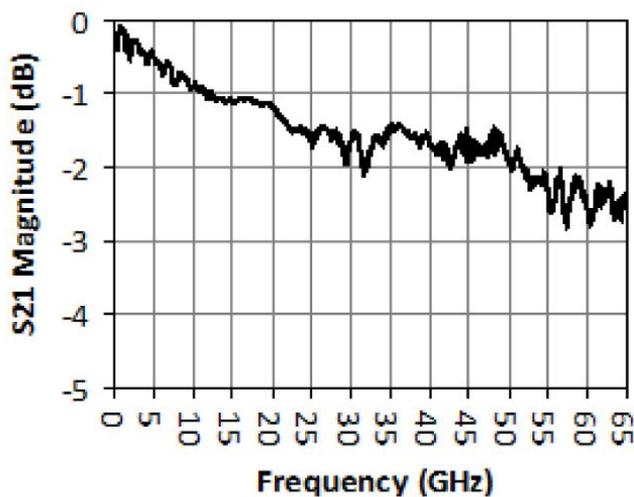
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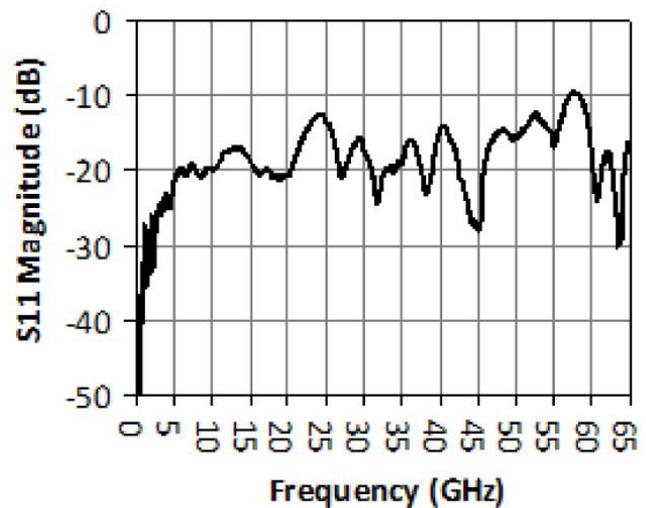
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## TYPICAL PERFORMANCE

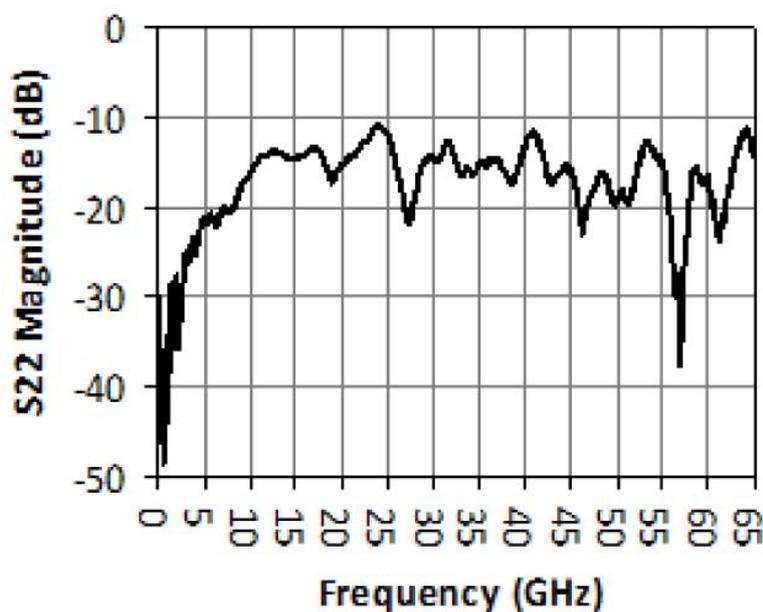
S21 Insertion Loss



S11 Return Loss



S22 Return Loss



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