

1506 Bias-T



BT2000

15 GHz Bias Tee

BT2000 is a broadband, coaxial bias insertion tee and DC blocking capacitor. It was designed to have a very low cutoff frequency of only 5 kHz. It passes fast rise pulses with a minimum of waveform distortion. Its rise time is 23 ps. The frequency response is very flat, and the -3 dB bandwidth extends from 5 kHz to 15 GHz. It is supplied with a 1 mH choke and terminal strip for connection to the DC bias.

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	10 GHz min.; 15 GHz typ. min.
Lower 3 dB Frequency (12 kHz W/O Inductor)	5 kHz typ.
Rise Time (10% to 90%)	23 ps typ.; 35 ps max.
Insertion Loss	0.5 dB typ.
Input (AC) Return Loss (f=100 MHz)	23 dB typ.
Refl. Coefficient (35 ps TDR) (t > 200 ps)	-5% typ.
DC Voltage	50 V max.
DC Current	500 mA max.
Capacitance (-50%, +80%)	0.44 μ F typ.
Inductance (\pm 30%)	1.34 mH typ.
Resistance	1.5 ohms typ.
RF Power	2 W max.
Isolation	30 dB typ.
DC Path Bandwidth	6 kHz typ.
RF Connectors	SMA Jacks (f)
DC Connector	Solder Pin