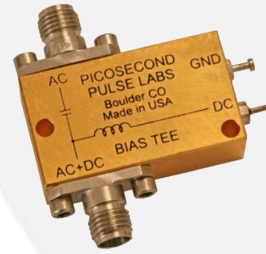


## BT2002



### Ultra-Broadband Bias Tee

BT2002 is an ultra-broadband, coaxial bias insertion tee and DC blocking capacitor that passes ultra-fast pulses with very low waveform distortion. Its rise time is only 7 ps, and its frequency response is flat over many decades from 10 kHz to beyond 50 GHz. It is available with either 2.92 mm (40 GHz) or 2.4 mm (50 GHz) connectors. Its small package makes this bias tee ideal for 40 Gbit data systems as well as broadband RF and microwave applications.

#### 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	40 GHz min. for 2.92 mm; 50 GHz min. for 2.4 mm
Lower 3 dB Frequency	10 kHz typ.
Rise Time (10% to 90%)	7 ps typ.
Insertion Loss	2 dB typ. for 2.92 mm or 2.4 mm
DC Voltage	16 V max.
DC Current (DC Port)	100 mA max.
Capacitance	0.22 $\mu$ F typ.
Inductance (DC Port)	1.5 mH typ.
Resistance (DC Port)	5.6 ohms typ.
RF Power (Avg. $f < 10$ GHz)	5 W max.
Isolation ( $f > 100$ MHz AC Port to DC Port)	50 dB min.
DC Path Bandwidth	8 kHz typ.
Delay (AC to AC+DC Port)	140 ps typ.