



AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS
SINCE 1975

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AVX-T SERIES BIAS TEES

Model:	AVX-T	AVX-TB	AVX-TB1	AVX-TC	AVX-TD	AVX-TG
Pulse width range:	0.2 - 50 ns	0.6 - 500 ns	0.6 - 500 ns	5 ns - 5 us	40ns - 100us	15ns - 10us
Rise time:	≤ 60 ps	≤ 150 ps	≤ 150 ps	≤ 1 ns	≤ 5 ns	≤ 5 ns
Maximum pulse amplitude:	200 V	50 V	50 V	50 V	100 V	500 V
Maximum DC voltage ¹ :	200 V	50 V	50 V	50 V	100 V	50 V
Maximum DC bias current ² :	0.5 A	0.25 A	1 A	0.3 A	0.3 A	0.2 A
Maximum pulse PRF:	1 GHz	500 MHz	500 MHz	20 MHz	1 MHz	10 kHz
Maximum pulse duty cycle:	1%					0.1%
Characteristic impedance:	50 Ω					
Insertion loss:	≤ 1 dB					
Maximum output power:	10 Watts average					
RF connectors:	SMA female ³				BNC female	
Bias connectors:	solder terminal					
Dimensions mm:	38 × 28 × 23		36 × 28 × 58		43×66×109	43×76×152
(H×W×D) inches:	1.5 × 1.1 × 0.9		1.4 × 1.1 × 2.3		1.7×2.6×4.3	1.7×3.0×6.0
Chassis material:	Cast aluminum, blue enamel					

- 1) This is the breakdown voltage of the capacitors. When operating into purely resistive 50 Ohm loads, the DC bias current maximum specification will limit the maximum DC voltage to a lower level.
- 2) This is the current rating of the inductor.
- 3) Add the -APDT3 option to include two SMA-male to BNC-female adapters (Amphenol 242102 or similar).

USAGE

