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PERFORMANCE CHECKSHEET

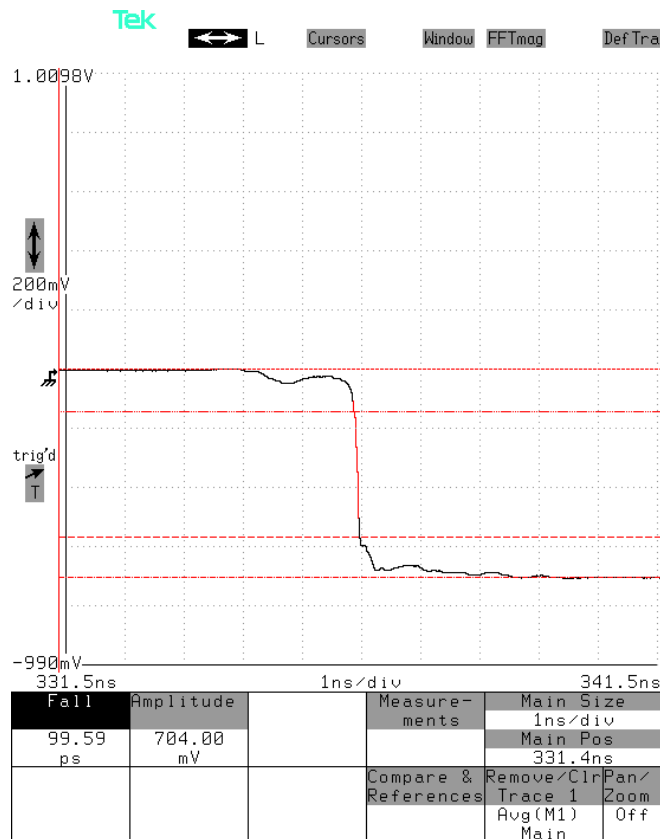
Model: AVX-T  
Type: Ultra-High-Speed Bias Tee  
S.N.: 14437  
Date: April 29, 2024

Basic specifications -

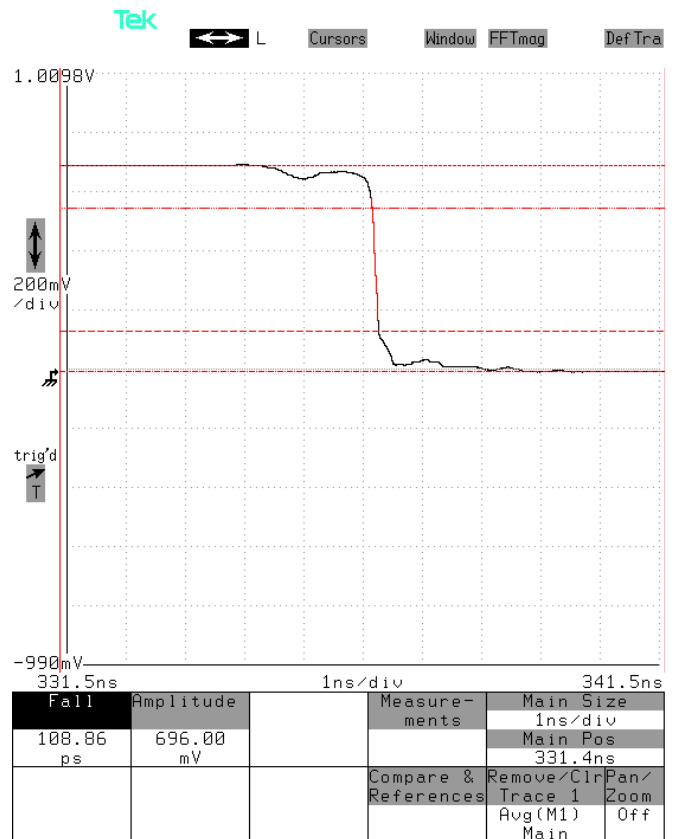
Pulse/DC voltage limit: 200V  
DC current limit: 0.5A  
Pulse width range: 0.2 – 50 ns  
Rise time (20%-80%): < 60 ps

Rise Time Test

99.59 ps rise time, -7V input to AVX-T,  
1 ns/div. 2 V/div (200 mV/div × 20 dB):



Corresponding output of AVX-T with +7V DC bias added,  
1 ns/div. 2 V/div (200 mV/div × 20 dB):

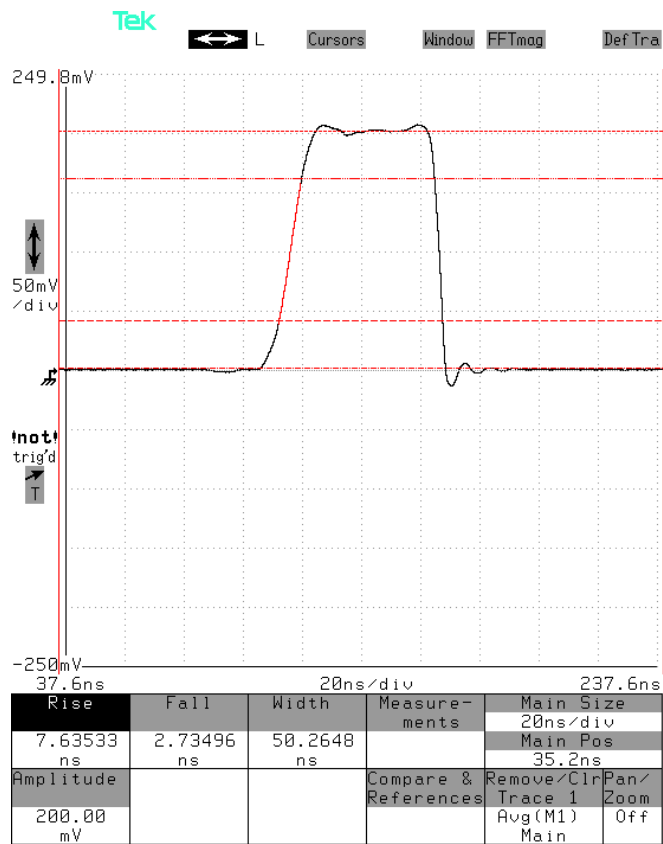


The output rise time should be less than  $\sqrt{(99.59ps^2 + 60ps^2)} = 116.3$  ps. The measured rise time does satisfy this limit.

## Maximum Amplitude / PW / Offset Test

200V. 50 ns input to AVX-T, generated by an Avtech AVR-3HE-B pulser

20 ns/div. 50 V/div (50 mV/div × 60 dB):



Corresponding output of AVX-T with +25V DC bias added,

20 ns/div. 50 V/div (50 mV/div × 60 dB):

