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PERFORMANCE CHECKSHEET

Model: AVX-3
Type: Inverting Transformer
S.N.: 13636
Date: September 18, 2017

Impedance: 50 Ohms
Maximum input: 50V
Maximum pulse width: 50 ns
Rise time (20%-80%): < 150 ps
Drop: < 10 %

Basic specifications: →

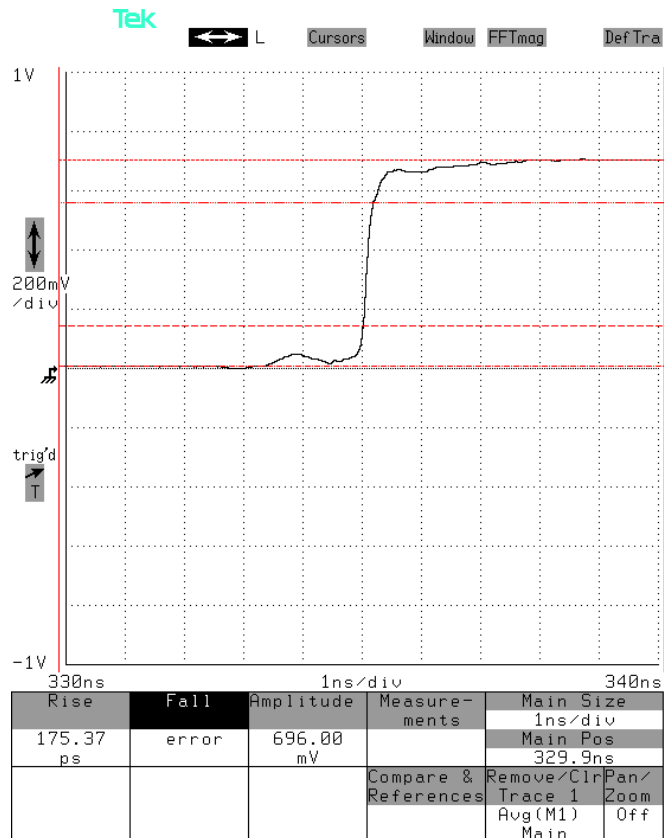
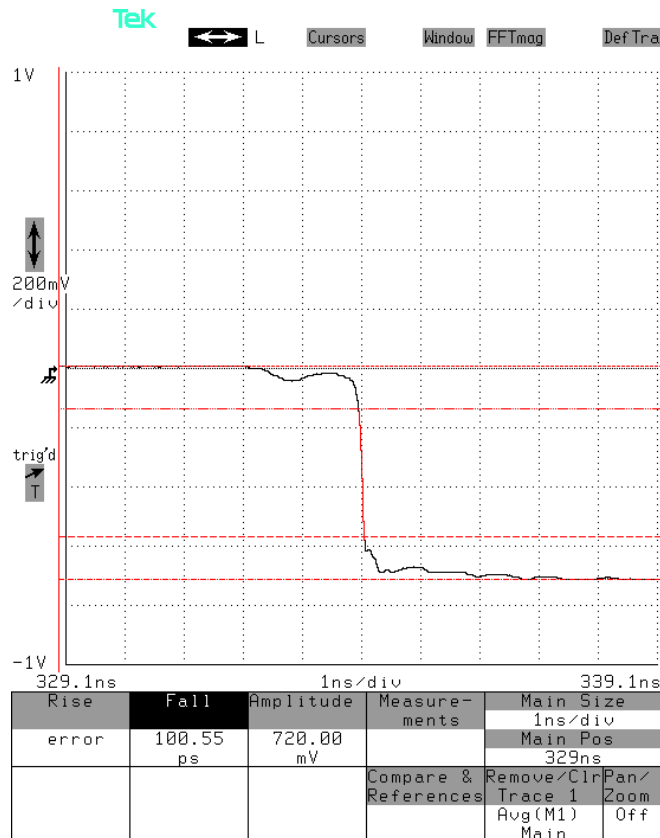
Rise-Time Test

Fast-rise-time input to AVX-3,

1 ns/div. 2 V/div (200 mV/div × 20 dB):

Corresponding output of AVX-3,

1 ns/div. 2 V/div (200 mV/div × 20 dB):

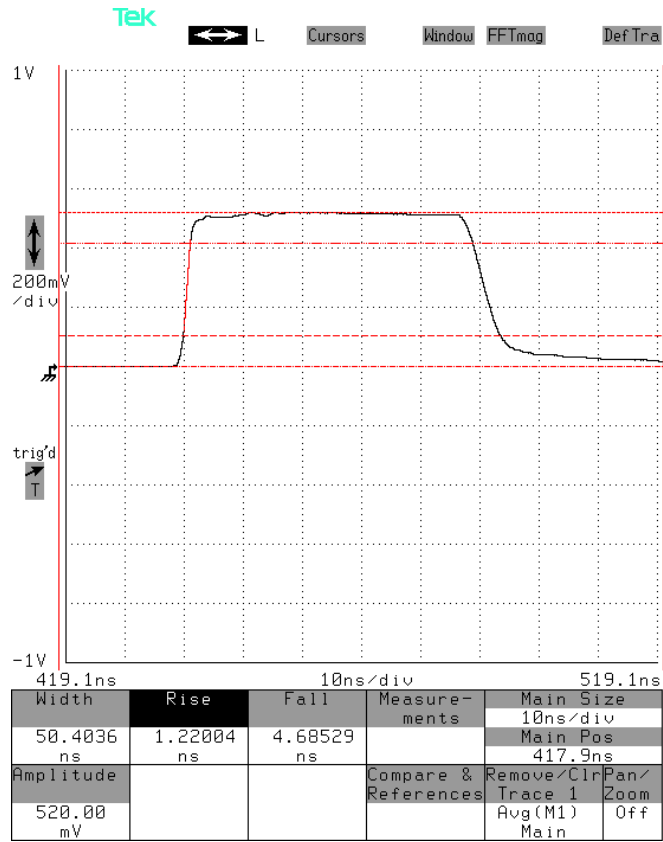


With input and transformer rise times adding as the sums of squares, the output rise time should be less than $\sqrt{(150ps^2 + 100.55ps^2)} = 180.6 ps$. An actual output rise time of 175.37 ps is seen.

Maximum Amplitude / Pulse Width Test

High-voltage input to AVX-3,

10 ns/div. 20 V/div (200 mV/div × 40 dB):



Corresponding output of AVX-3,

10 ns/div. 20 V/div (200 mV/div × 40 dB):

