



info@avtechpulse.com  
http://www.avtechpulse.com/

Tel: 888-670-8729 (USA & Canada)  
or +1-613-686-6675 (Worldwide)

BOX 5120, LCD MERIVALE  
OTTAWA, CANADA K2C3H5

PERFORMANCE CHECKSHEET

Model: AVX-3  
Type: Inverting Transformer  
S.N.: 14383  
Date: October 13, 2023

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

Basic specifications: →

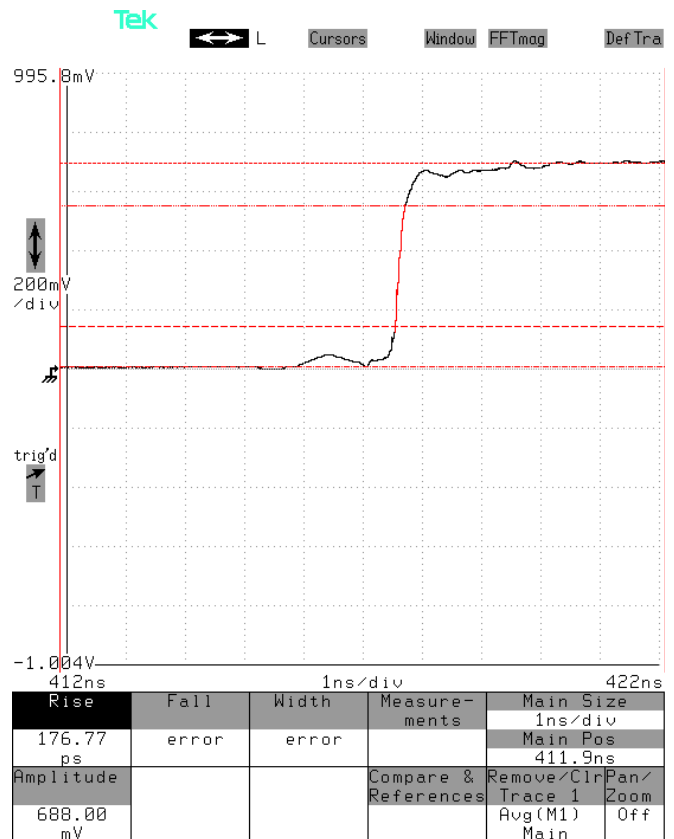
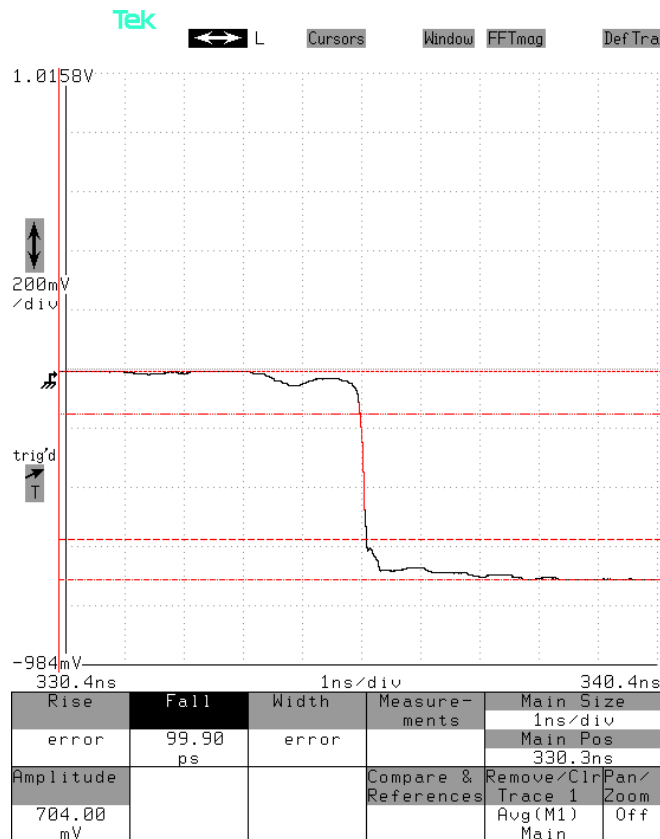
Rise-Time Test

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):

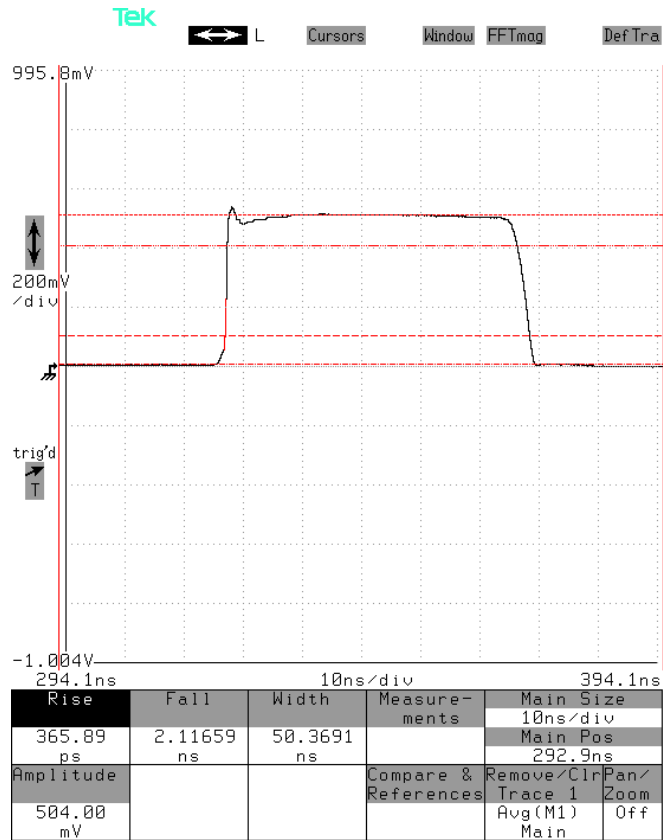


With input and transformer rise times adding as the sums of squares, the output rise time should be less than  $\sqrt{(150ps^2 + 99.90ps^2)} = 180.2$  ps. An actual output rise time of 176.77 ps is seen.

## 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):

