



P.O. BOX 265
OGDENSBURG, NY
U.S.A. 13669-0265

TEL: 888-670-8729 (USA & Canada) or +1-613-686-6675 (Intl)
FAX: 800-561-1970 (USA & Canada) or +1-613-686-6679 (Intl)

BOX 5120, LCD MERIVALE
OTTAWA, ONTARIO
CANADA K2C 3H5

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

PERFORMANCE CHECKSHEET

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

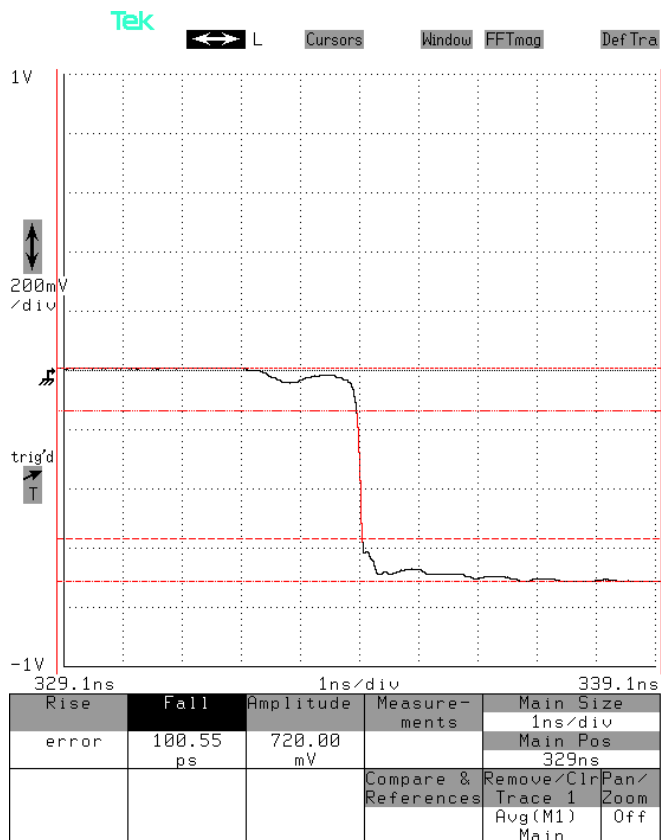
Impedance: 50 Ohms
Maximum input: 50V
Maximum pulse width: 50 ns
Rise time (20%-80%): < 150 ps
Drop: < 10 %

Basic specifications: →

Rise-Time Test

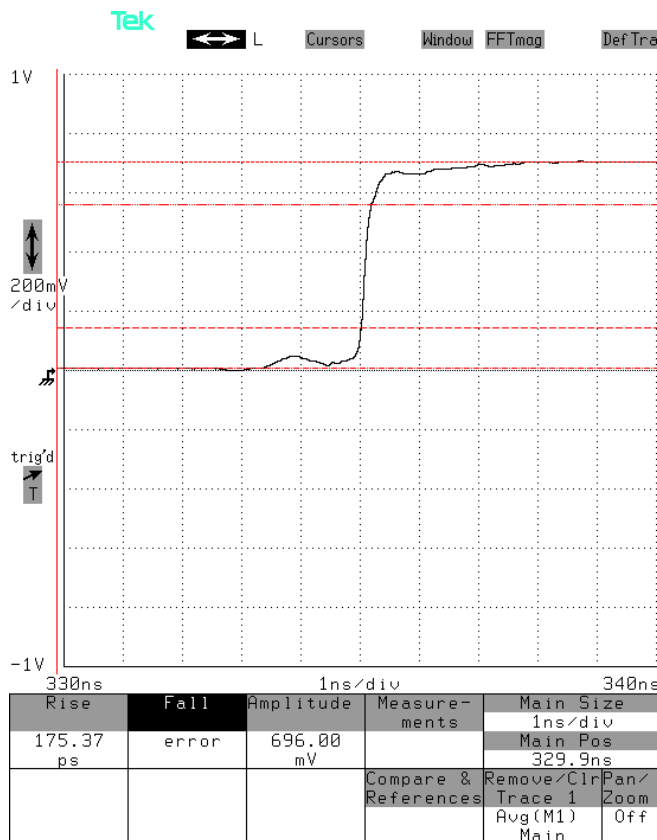
Fast-rise-time input to AVX-3,

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):

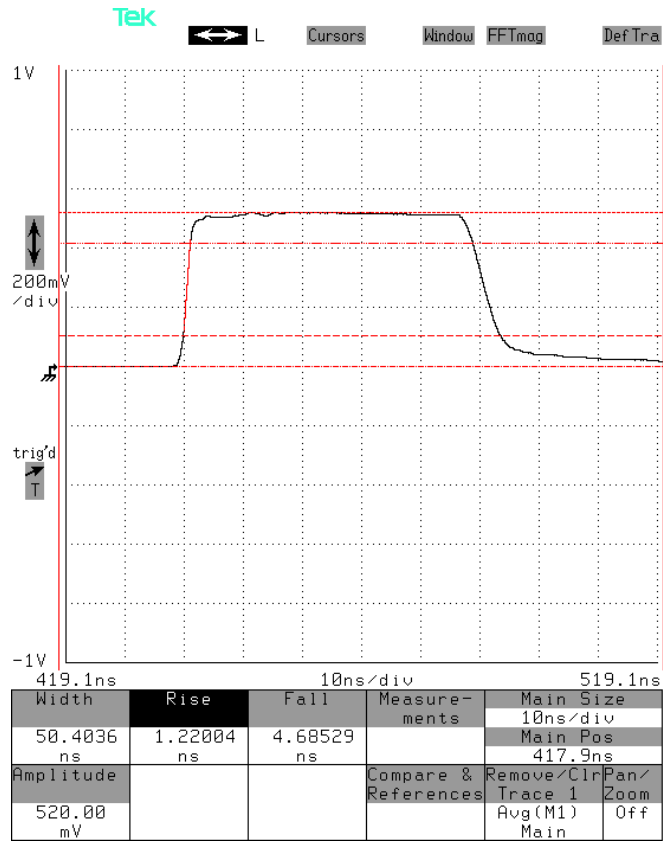


With input and transformer rise times adding as the sums of squares, the output rise time should be less than $\sqrt{(150ps^2 + 100.55ps^2)} = 180.6 ps$. An actual output rise time of 175.37 ps is seen.

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):

