



AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS
SINCE 1975

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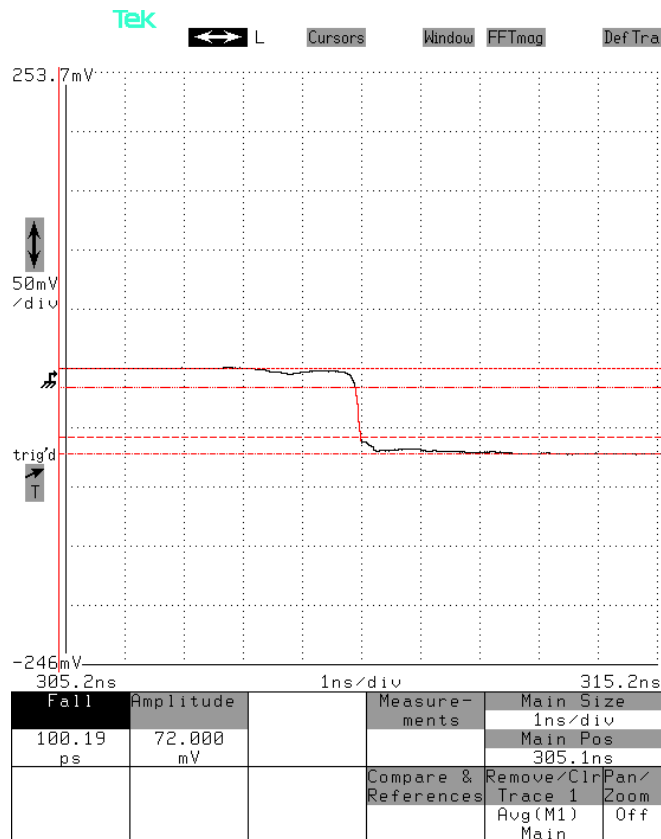
PERFORMANCE CHECKSHEET

Model: AVX-M1-S
Type: Voltage-Doubling Transformer
S.N.: 13808
Date: November 15, 2018

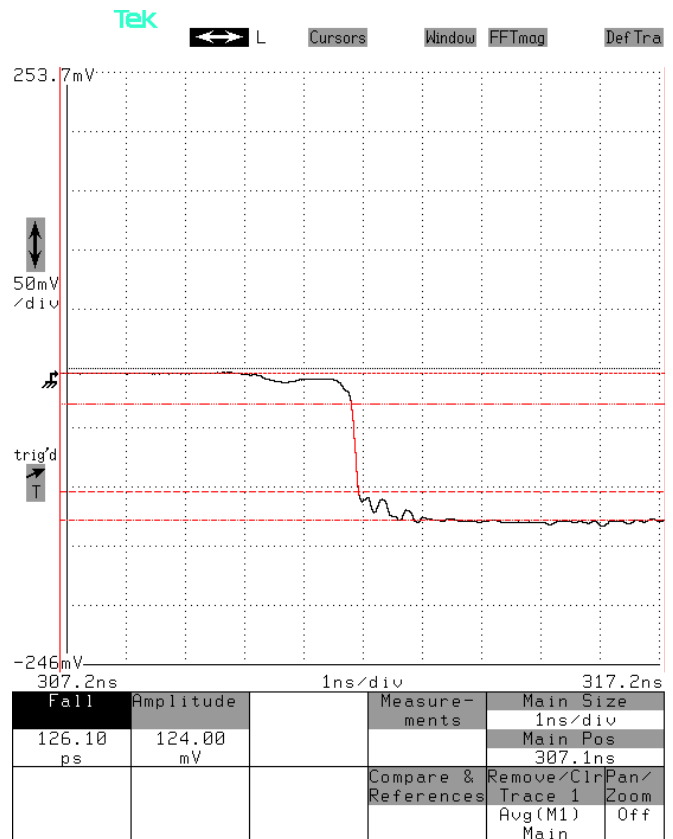
Impedance: 50 Ohms to 200 Ohms
Maximum input: 30V
Maximum pulse width: 10 ns
Rise time (20%-80%): < 100 ps
Droop: < 5 %

Rise-Time Test

Fast-rise-time pulse without AVX-M1-S,
1 ns/div. 5 V/div (50 mV/div × 40 dB):



Fast-rise-time pulse with AVX-M1-S added,
1 ns/div. 5 V/div (50 mV/div × 40 dB):

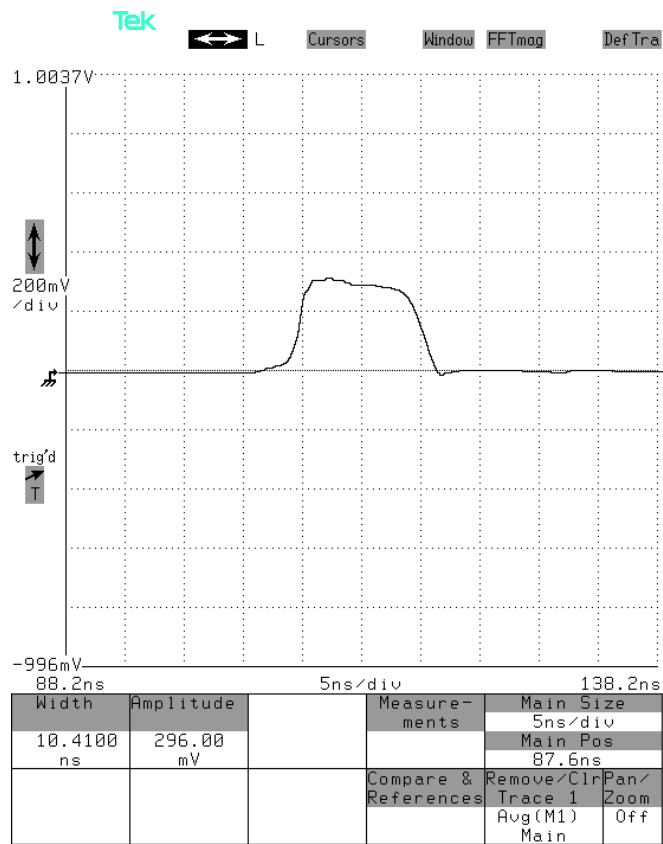


Measured using a 330Ω resistor on the output to ground, with a 453Ω chip resistor in series with a 20 dB attenuator to the oscilloscope (503Ω input impedance, ~40 dB total attenuation), for a total load of ~199Ω.

Maximum Amplitude / Pulse Width Test

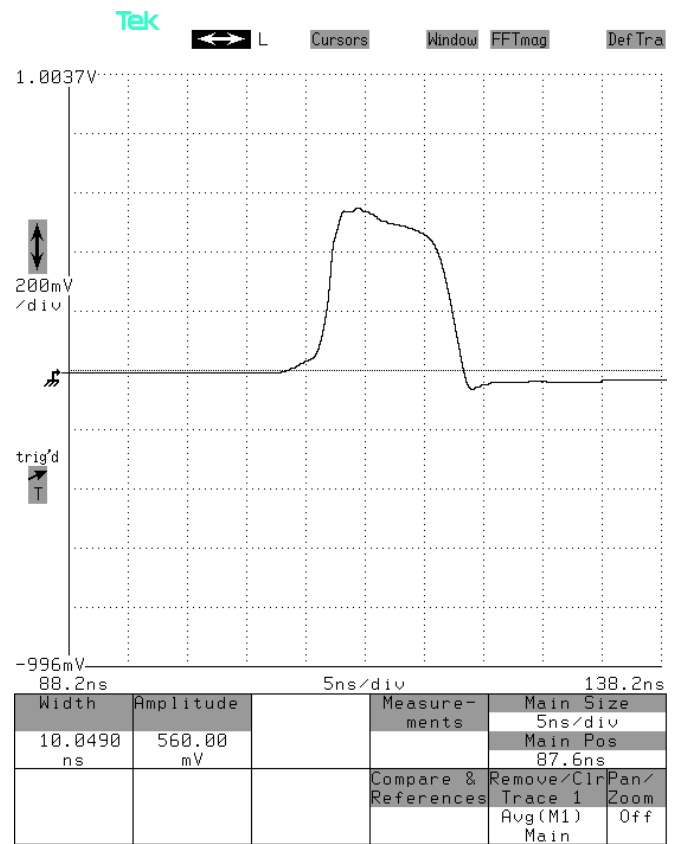
High-voltage pulse from an AVIR-4D-B,
without AVX-M1-S,

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



High-voltage pulse from an AVIR-4-B,
with AVX-M1-S added,

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



Measured using a 330Ω resistor on the output to ground, with a 453Ω chip resistor in series with a 20 dB attenuator to the oscilloscope (503Ω input impedance, ~40 dB total attenuation), for a total load of ~199Ω.