AVTECH ELECTROSYSTEMS LTD.
NANOSECOND WAVEFORM ELECTRONICS
SINCE 1975

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OTTAWA, CANADA K2C3H5

PERFORMANCE CHECKSHEET

Model: AVX-M4-H
Type: Current-Quadrupling Pulse Transformer
S.N.: 14507
Date: February 12, 2025

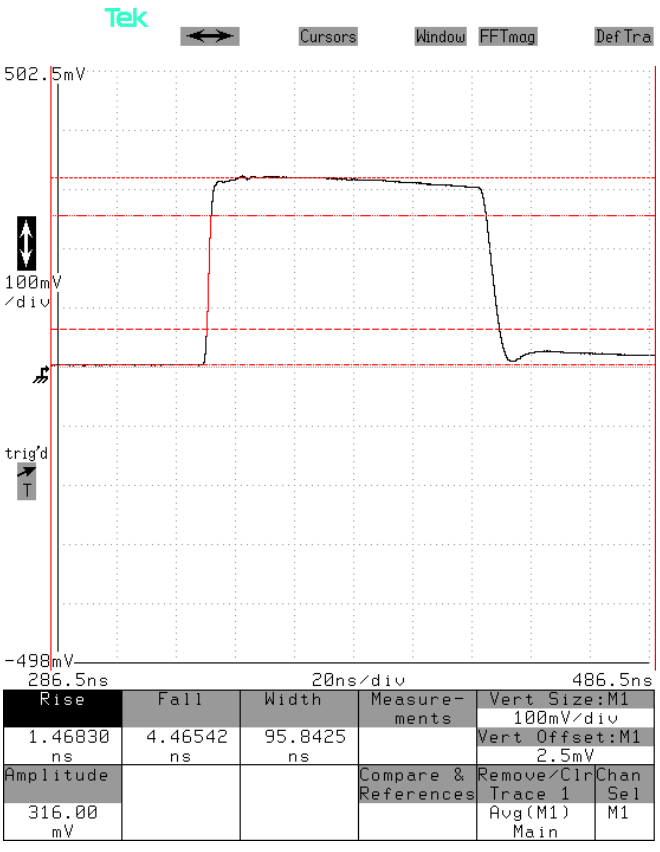
Basic specifications: →

Impedance match:	50 Ω to 3 Ω
Maximum input:	750V
Maximum output:	188V / 63A
Maximum pulse width:	200 ns @ 750V, 1 us @ 100V
Rise time (20%-80%):	< 5 ns
Droop:	< 5 %

Rise Time Test

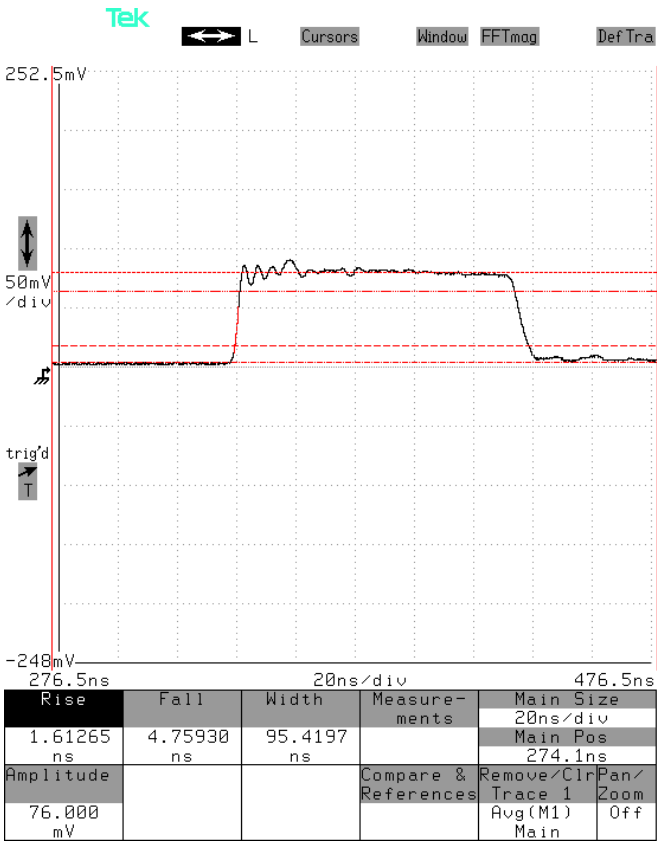
Input to AVX-M4-H, generated by AVL-2-C,

20 ns/div. 100 V/div (100 mV/div × 60 dB):



Corresponding output of AVX-M4-H,

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

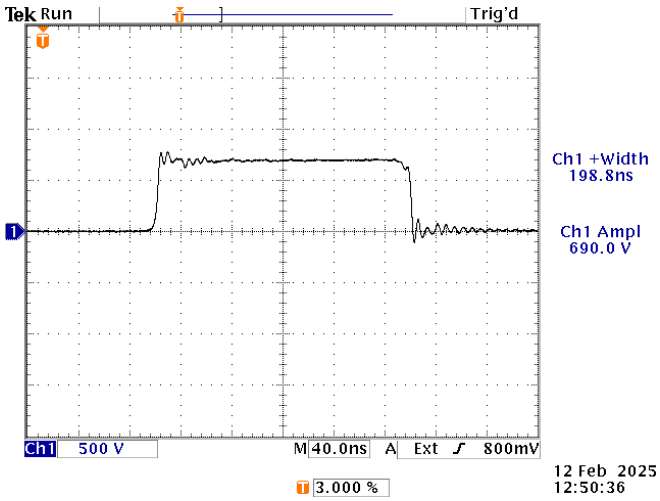


Load impedance = 3.3 Ohms (Ohmite OX series) in parallel with 50 Ohm input impedance of the oscilloscope, for a total of 3.1 Ohms.

Maximum Amplitude Test

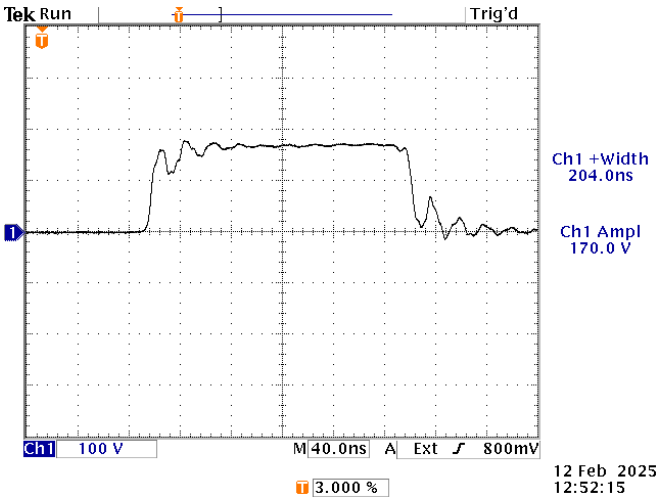
Input to AVX-M4-H, generated by AVRF-7B-B,

40 ns/div. 500 V/div:

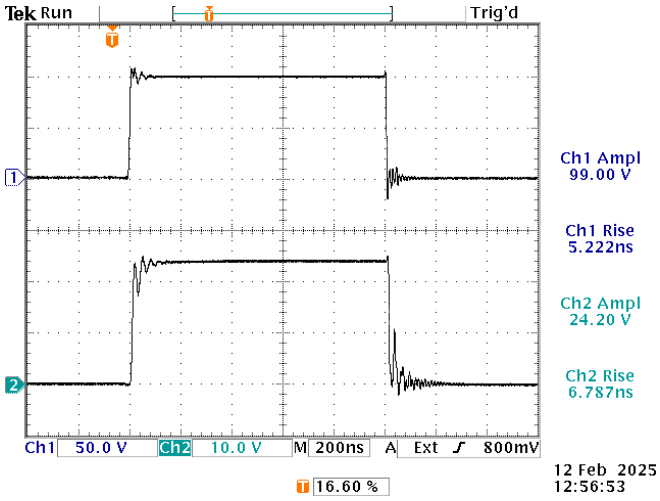


Corresponding output of AVX-M4-H,

40 ns/div. 100 V/div:



Maximum Pulse Width Test



Top: +100V / 1 us input (50 V/div, 200 ns/div)
Bottom: Corresponding output (10 V/div)