



AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS
SINCE 1975

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OTTAWA, CANADA K2C3H5

PERFORMANCE CHECKSHEET

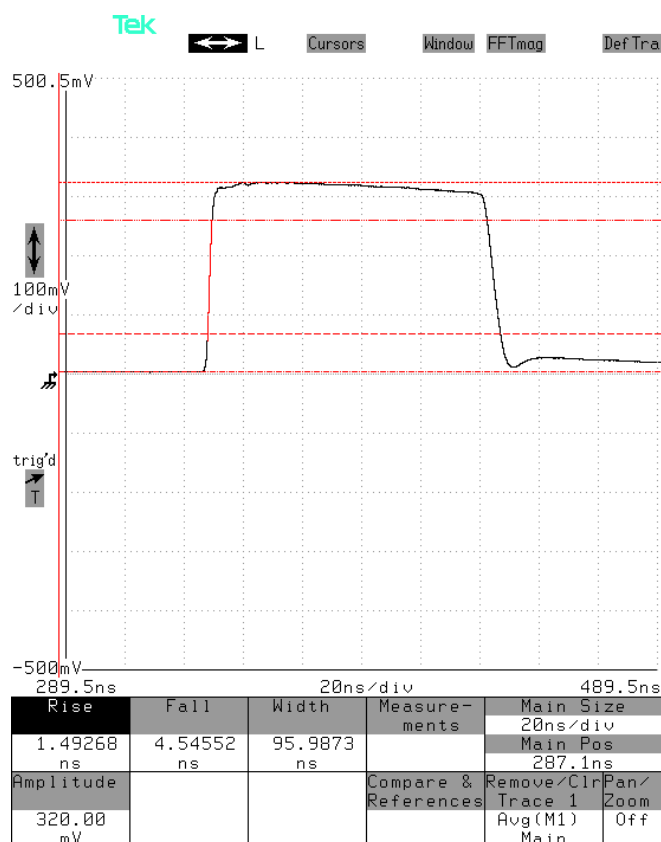
Model: AVX-M4-H
Type: Current-Quadrupling Pulse Transformer
S.N.: 14539
Date: March 13, 2025

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

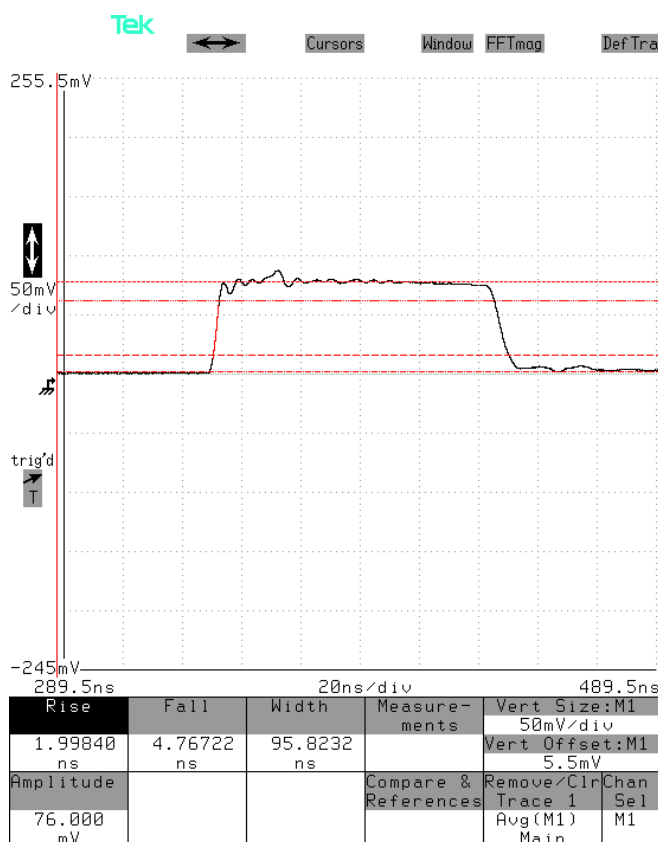
Basic specifications: →

Rise Time Test

Input to AVX-M4-H, generated by AVL-2-C,
20 ns/div. 100 V/div (100 mV/div $\times$ 60 dB):



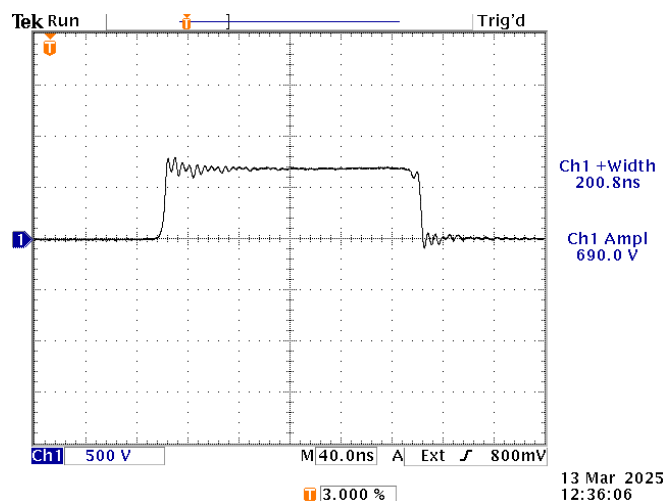
Corresponding output of AVX-M4-H,
20 ns/div. 50 V/div (50 mV/div $\times$ 60 dB):



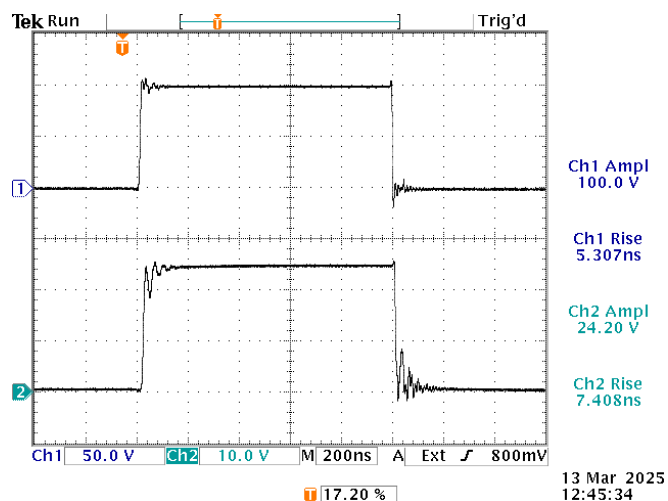
Load impedance = 3.3 Ohms (Ohmite OX series)
in parallel with 50 Ohm input impedance of the
oscilloscope, for a total of 3.1 Ohms.

Maximum Amplitude Test

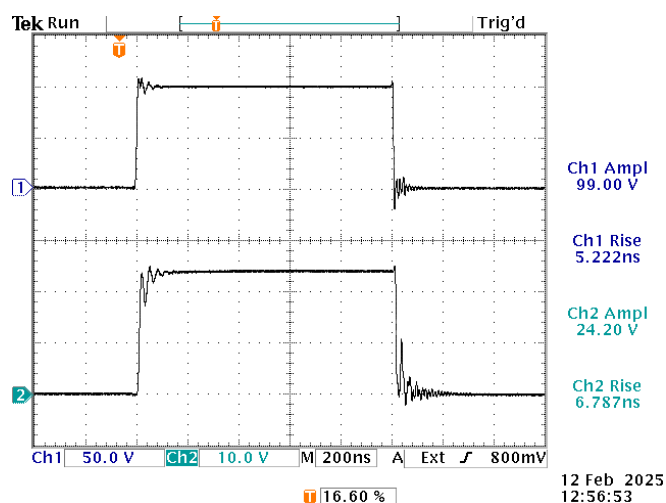
Input to AVX-M4-H, generated by AVRF-7B-B,
40 ns/div. 500 V/div:



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)