



AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS
SINCE 1975

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BOX 5120, LCD MERIVALE
OTTAWA, CANADA K2C3H5

PERFORMANCE CHECKSHEET

Model: AVX-M4
Type: Current-Quadrupling Pulse Transformer
S.N.: 14508
Date: February 12, 2025

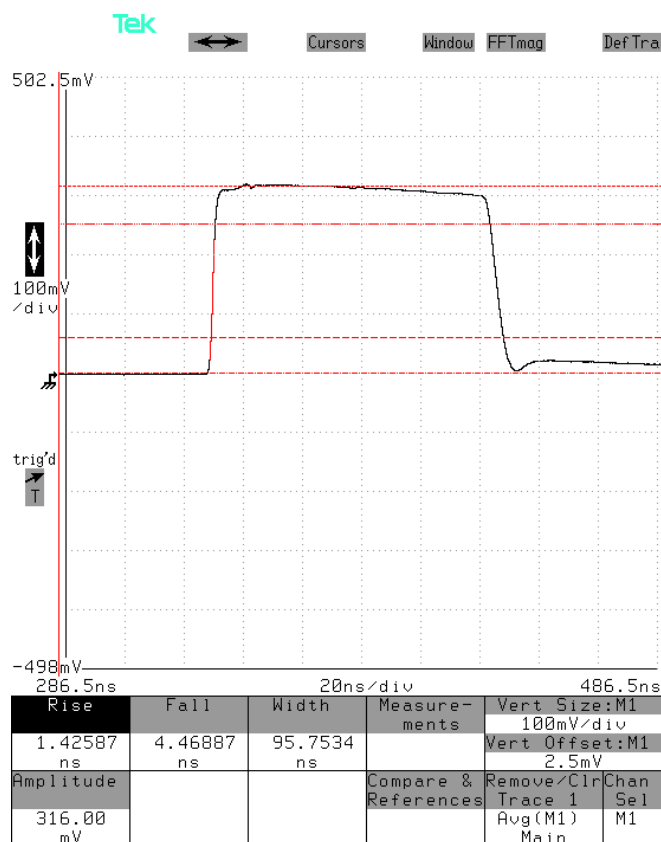
Basic specifications: →

Impedance match: 50 Ω to 3 Ω
Maximum input: 350V
Maximum output: 87V / 28A
Maximum pulse width: 100 ns
Rise time (20%-80%): < 2 ns
Droop: < 5 %

Pulse Mode Test Waveforms

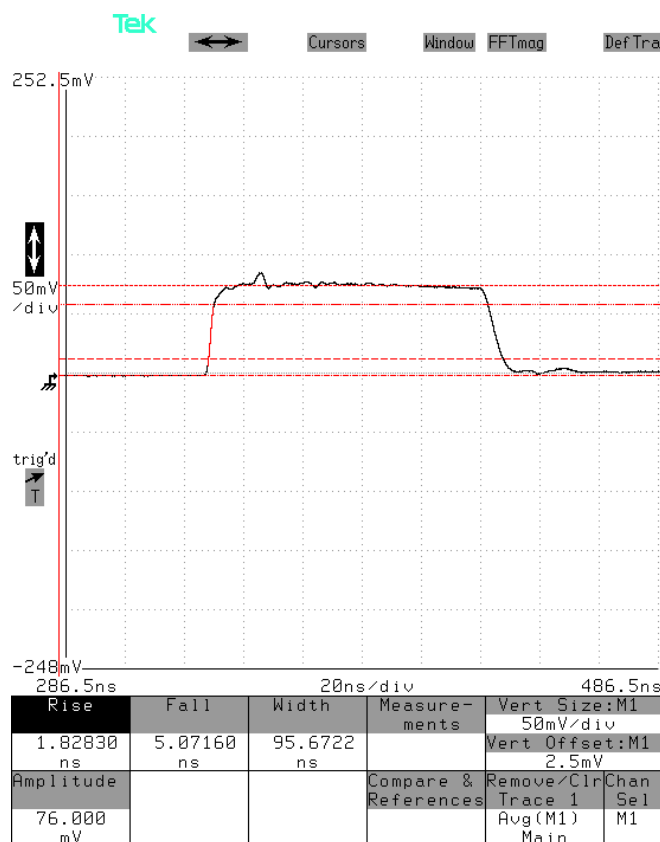
Input to AVX-M4, generated by an AVL-2-C pulse generator,

20 ns/div. 100 V/div (100 mV/div $\times$ 60 dB):

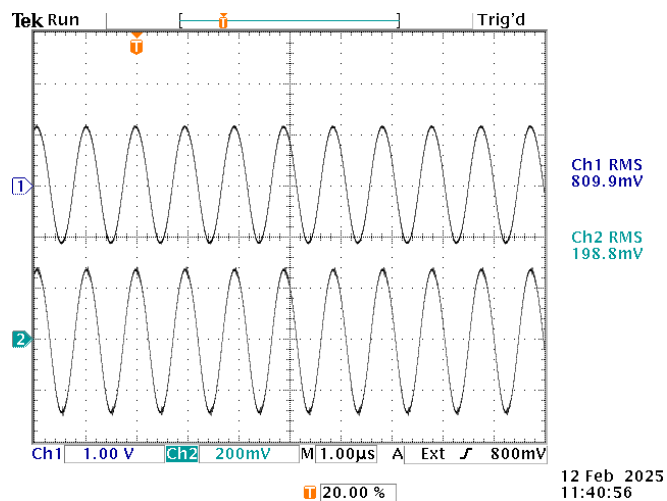


Corresponding output of AVX-M4,

20 ns/div. 50 V/div (50 mV/div $\times$ 60 dB):



Small Signal Test Waveforms



Top: ~800 mV_{RMS} sine wave in

Bottom: ~200 mV_{RMS} sine wave out