

AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS
SINCE 1975

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BOX 5120, LCD MERIVALE
OTTAWA, CANADA K2C3H5

PERFORMANCE CHECKSHEET

Model: AVR-E3A-B-PN-W1-CC1-AC03
Type: Ultra-High-Speed Pulse Generator
S.N.: 14534
Date: January 28, 2025

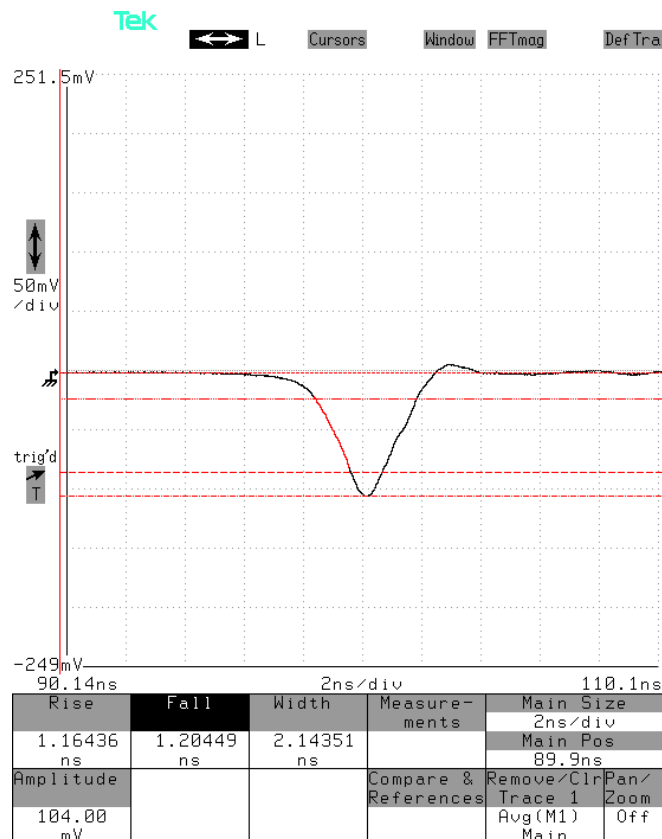
Basic specifications: →

Output Amplitude: up to $\pm 100V$, to 50Ω
Pulse Width (FWHM): 3 – 500 ns
Rise Time (20%-80%): ≤ 1.5 ns
Fall Time (80%-20%): ≤ 2.5 ns
PRF: 1 Hz - 200 kHz
Jitter, Stability: OK
Prime Power: 100-240V AC, 50-60 Hz.

Test Waveforms

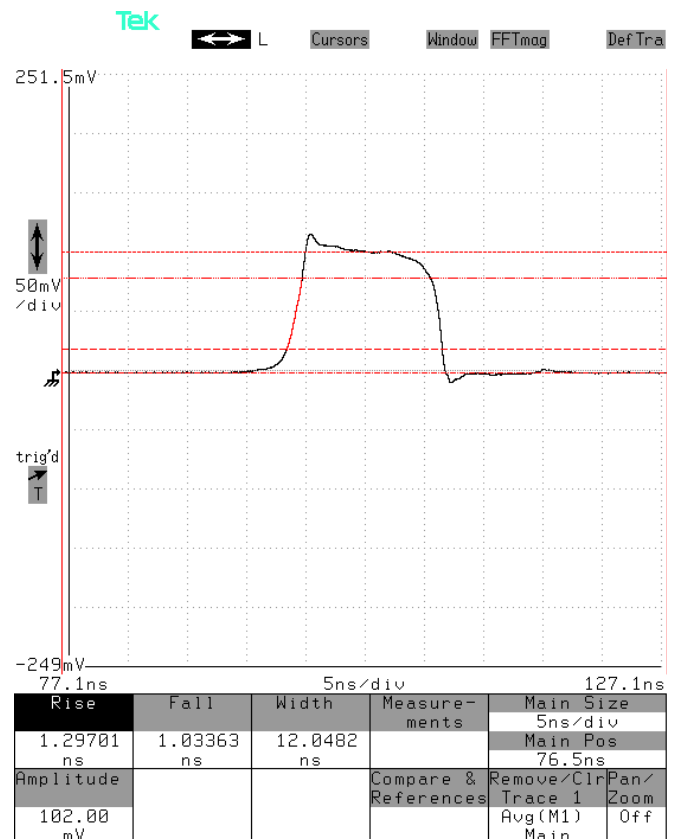
10 kHz, < 3 ns, -100V,

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

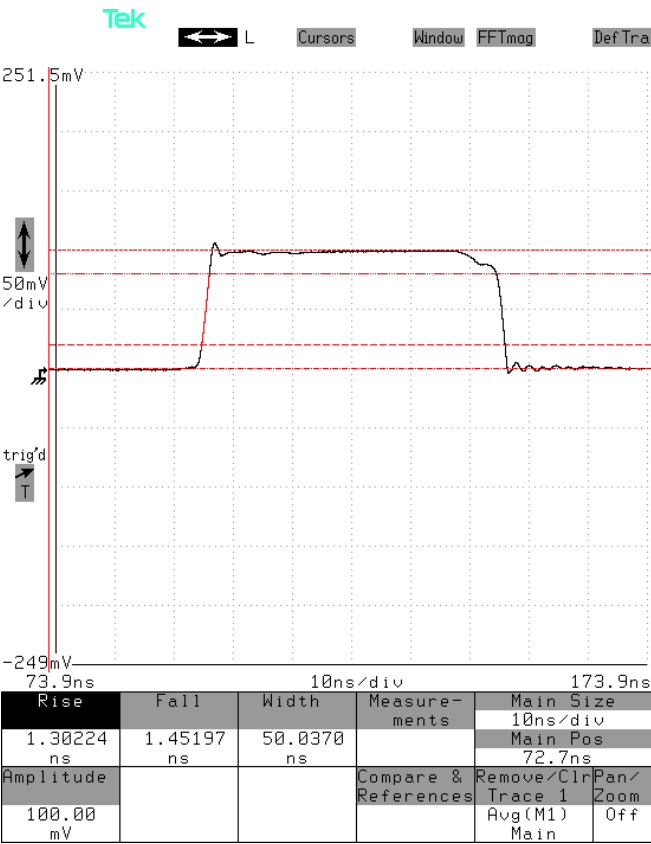


10 kHz, 12 ns, +100V.

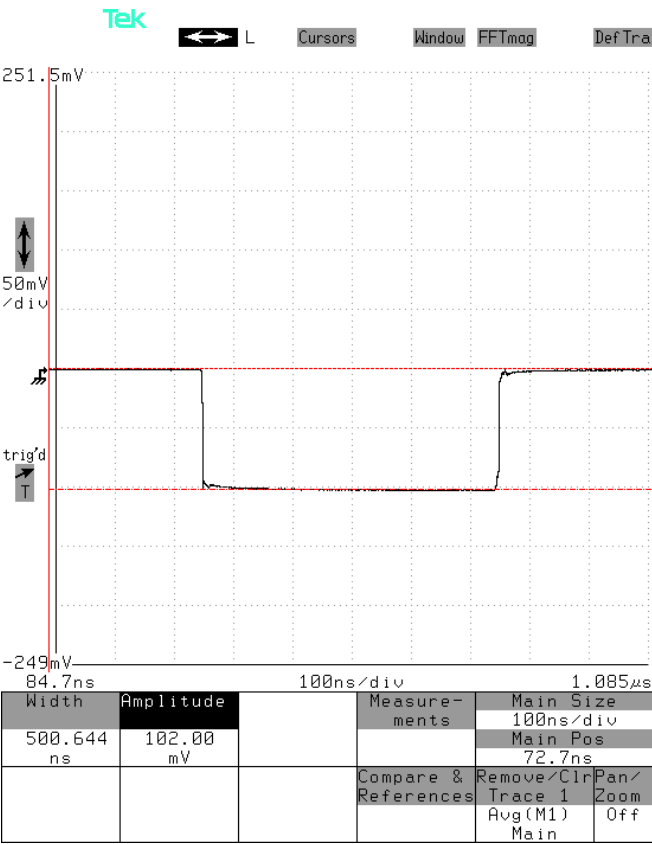
5 ns/div. 50 V/div 50 mV/div $\times$ 60 dB):



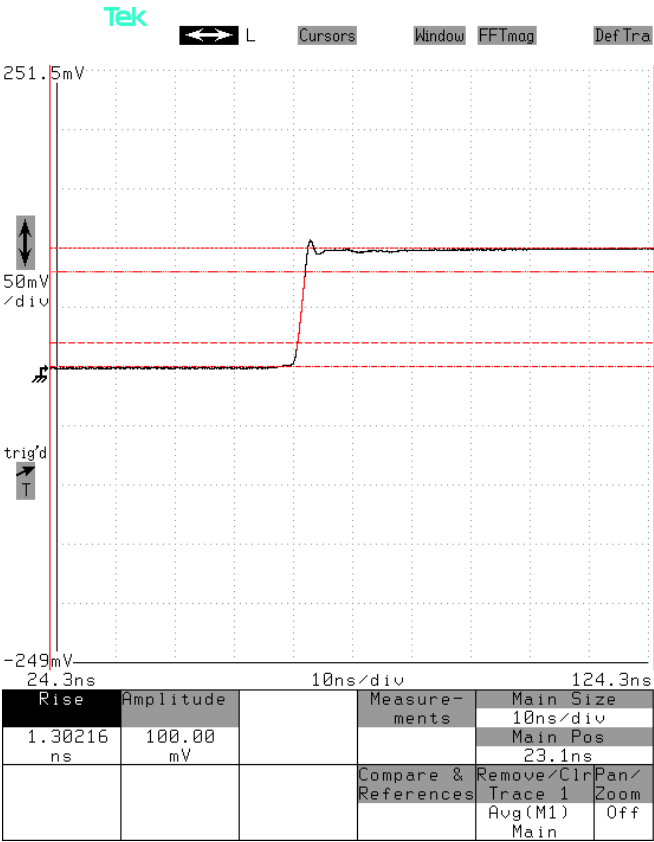
10 kHz, 50 ns, +100V, full pulse,
10 ns/div. 50 V/div (50 mV/div × 60 dB):



10 kHz, 500 ns, -100V, full pulse,
50 ns/div. 50 V/div (50 mV/div × 60 dB):



20 kHz, 200 ns, +100V, leading edge,
10 ns/div. 50 V/div (50 mV/div × 60 dB):



20 kHz, 200 ns, +100V, trailing edge,
10 ns/div. 50 V/div (50 mV/div × 60 dB):

