



# AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS  
SINCE 1975

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## PERFORMANCE CHECKSHEET

Model: AVN-5A-C-P  
Type: Ultra-High-Speed Pulse Generator  
S.N.: 12360  
Date: November 18, 2009

Output Amplitude: 0 to 20V-30V, to 50Ω  
Pulse Width (FWHM): 0.4 - 1 ns, 0.4 – 0.7 ns  
Rise Time (20%-80%): ≤ 200 ps  
Fall Time (80%-20%): ≤ 300 ps  
PRF: 25 - 200 MHz  
Jitter, Stability: OK  
Prime Power: 100-240V AC, 50-60 Hz.

Basic specifications: →

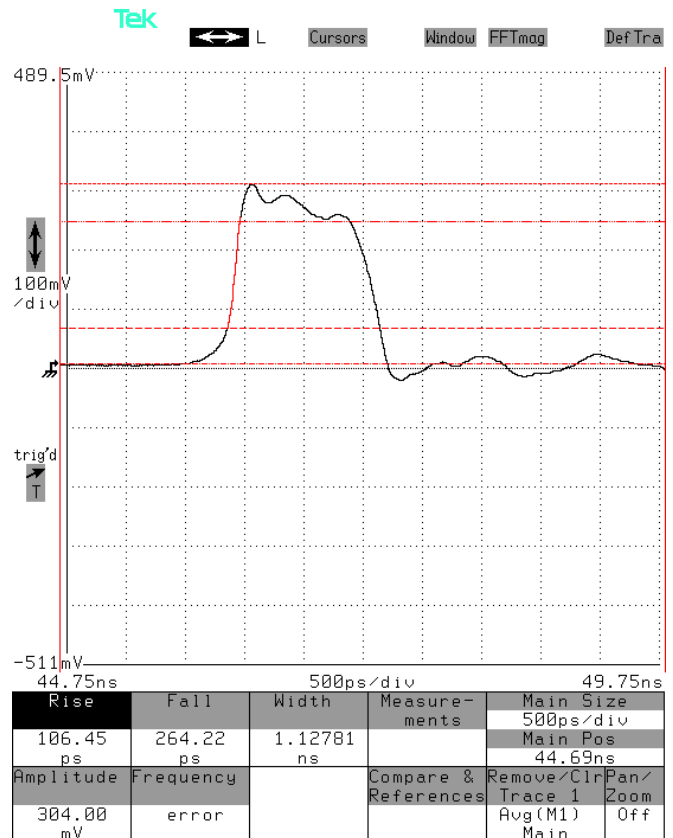
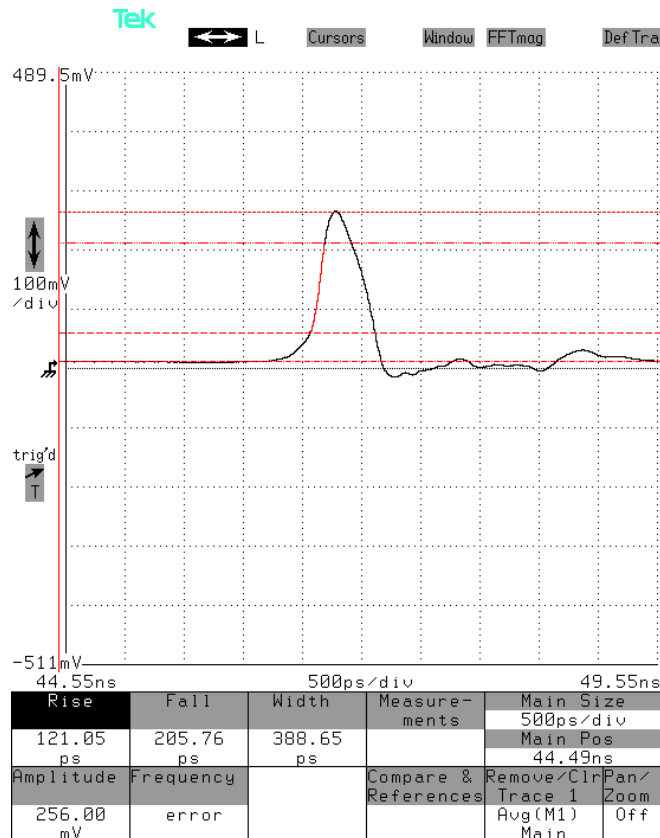
### Test Waveforms

25 MHz, ~ 400 ps, +25V into 50 Ohms:

25 MHz, ~ 1 ns, > +25V into 50 Ohms:

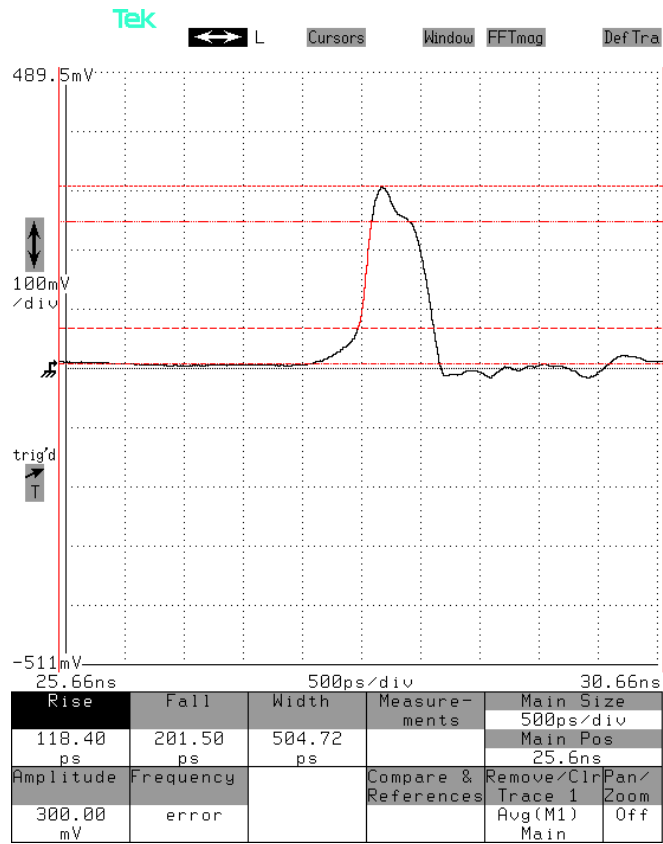
500 ps/div. 10 V/div (100 mV × 40 dB):

500 ps/div. 10 V/div (100 mV × 40 dB):



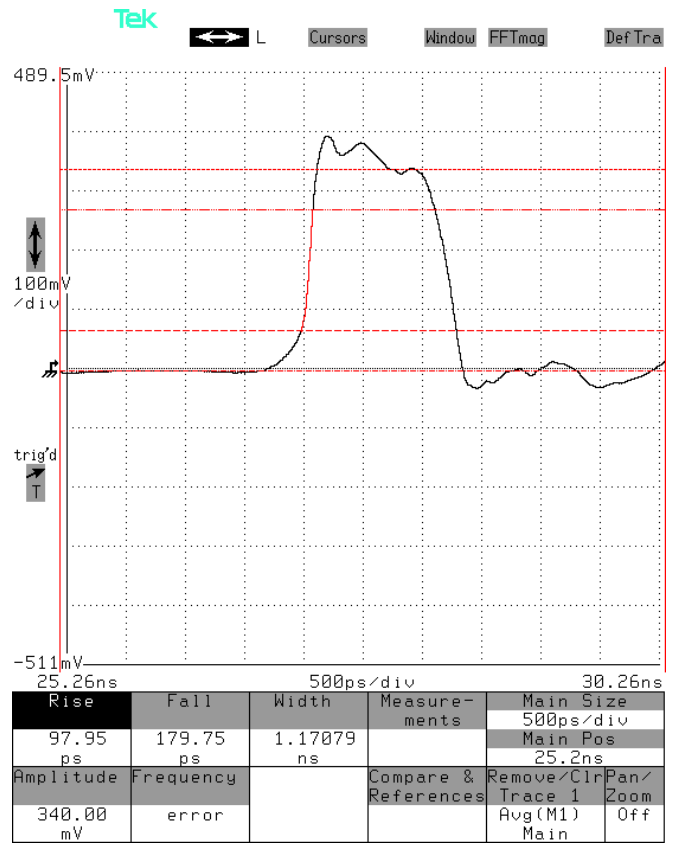
50 MHz, ~ 500 ps, +30V into 50 Ohms:

500 ps/div. 10 V/div (100 mV × 40 dB):



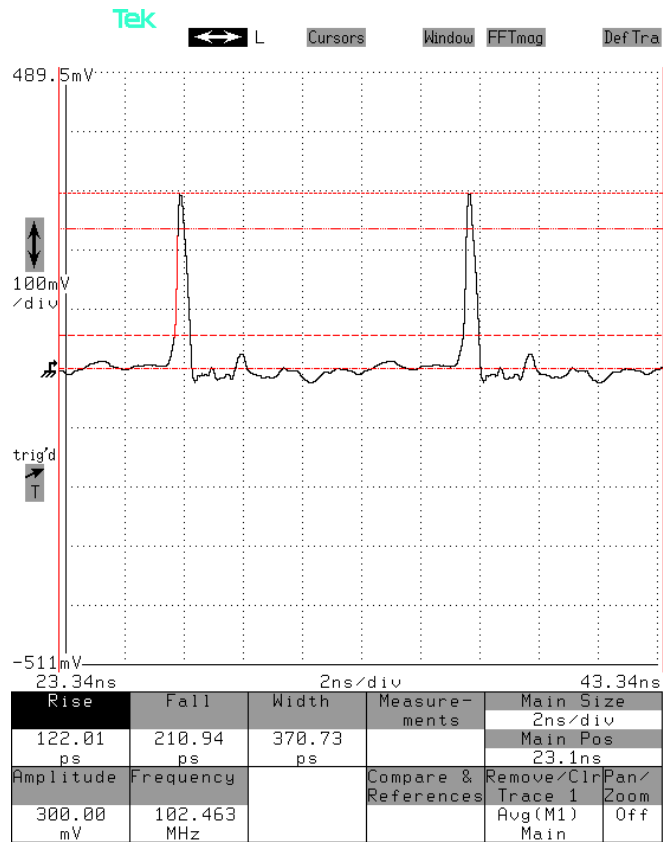
50 MHz, ~ 1 ns, > +30V into 50 Ohms:

500 ps/div. 10 V/div (100 mV × 40 dB):



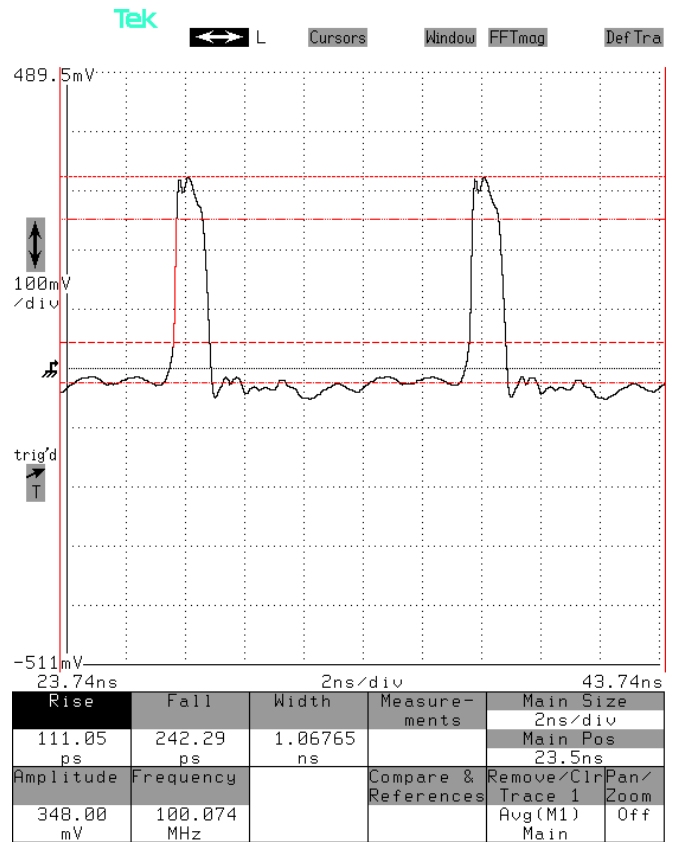
100 MHz, ~ 400 ps, +30V into 50 Ohms:

2 ns/div. 10 V/div (100 mV × 40 dB):



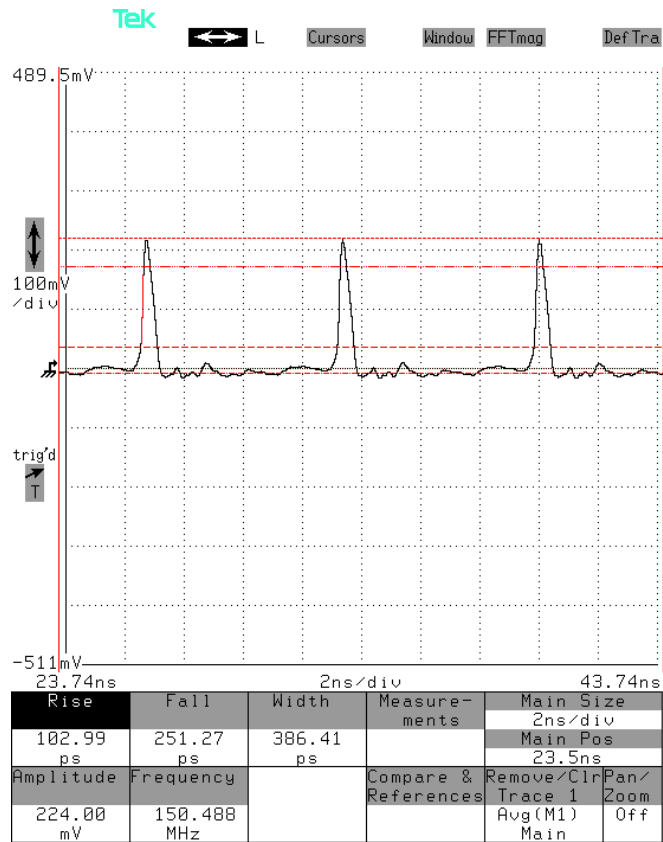
100 MHz, ~ 1 ns, > +30V into 50 Ohms:

2 ns/div. 10 V/div (100 mV × 40 dB):



150 MHz, ~ 400 ps, > +20V into 50 Ohms:

2 ns/div. 10 V/div (100 mV × 40 dB):



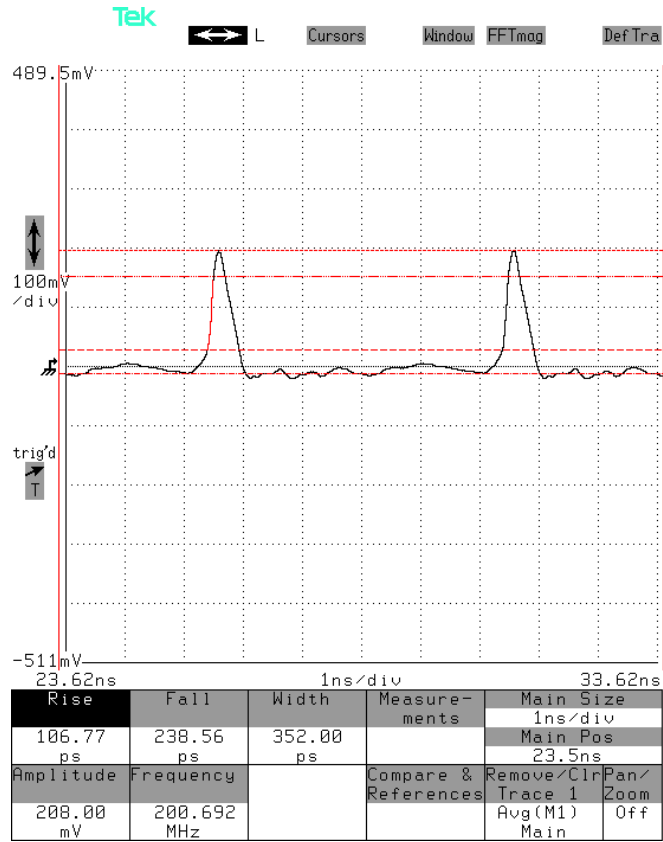
150 MHz, ~ 1 ns, > +30V into 50 Ohms:

2 ns/div. 10 V/div (100 mV × 40 dB):



200 MHz, < 400 ps, +20V into 50 Ohms:

1 ns/div. 10 V/div (100 mV × 40 dB):



200 MHz, ~ 700 ps, > +20V into 50 Ohms:

1 ns/div. 10 V/div (100 mV × 40 dB):

