



# AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS  
SINCE 1975

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## PERFORMANCE CHECKSHEET

Model: AVO-9F2-C-P2B-R5-P  
Type: Ultra-High-Speed Pulse Generator  
S.N.: 11871  
Date: November 26, 2007

Max. Output Amplitude: varies with PRF  
Pulse Width (FWHM): 0.4 - 1 ns  
Rise Time (20%-80%):  $\leq 200$  ps  
Fall Time (80%-20%):  $\leq 200$  ps  
PRF: 25 - 100 MHz  
Jitter, Stability: OK  
Prime Power: 100-240V AC, 50-60 Hz.

Basic specifications: →

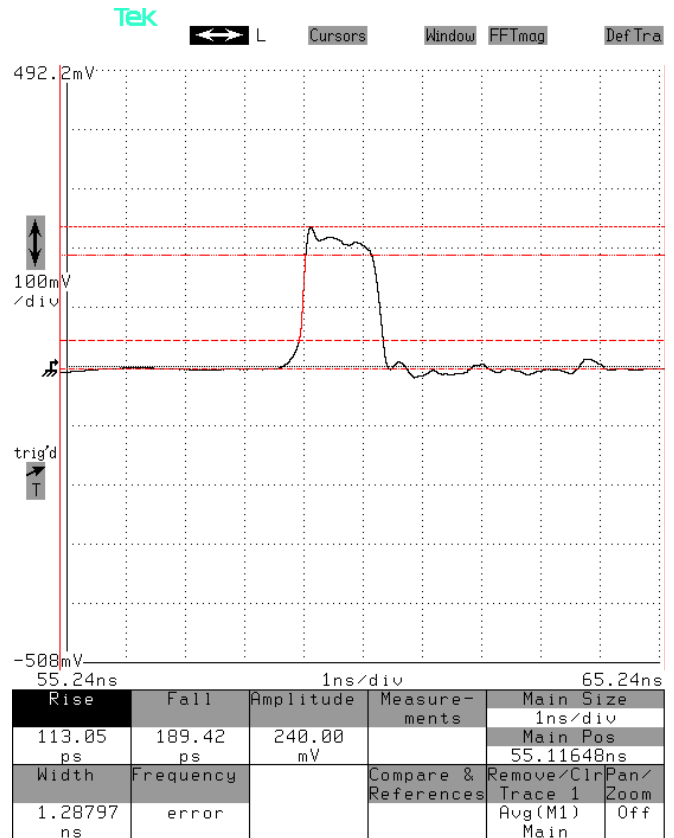
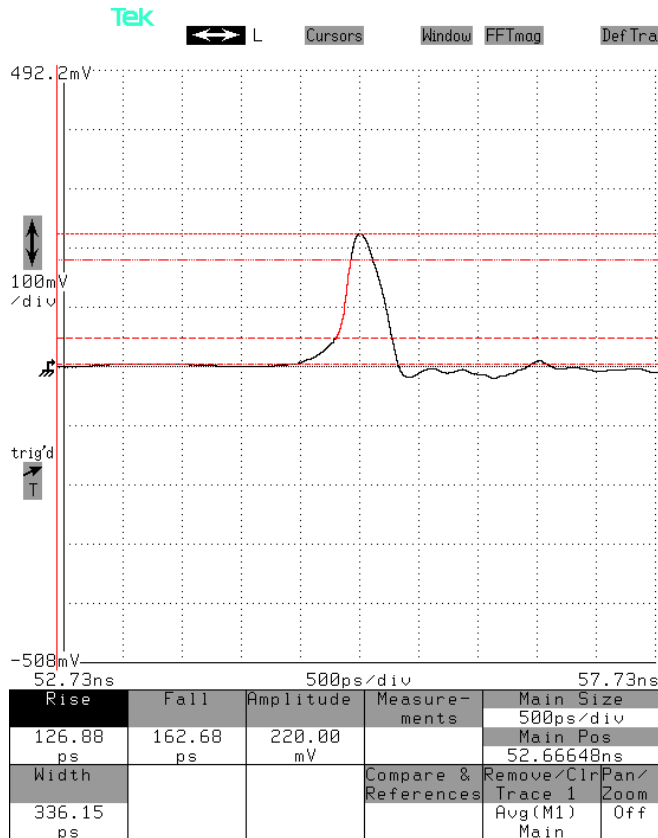
### Test Waveforms

At 100 MHz, > 20V, < minimum pulse width,  
mainframe driving a 50 Ohm load (no output  
module):

At 50 MHz, > 20V, > maximum pulse width,  
mainframe driving a 50 Ohm load (no output  
module):

500 ps/div. 10 V/div (100 mV  $\times$  40 dB):

1 ns/div. 10 V/div (100 mV  $\times$  40 dB):



At 50 MHz, 20V, 0.66 ns pulse width, mainframe driving the output module with a 1N4148 diode in series with 20 Ohms installed in the output socket. The parasitic inductance causes a slight degradation of the rise time. The "MI" output is shown.

1 ns/div. 1 V/div (100 mV × 20 dB):

