



# AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS  
SINCE 1975

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BOX 5120, LCD MERIVALE  
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## PERFORMANCE CHECKSHEET

Model: AVR-E3-B-PN-AK2-AK8-W3-OS-R5-X2-ATA3-AC22  
Type: Ultra-High-Speed Pulse Generator  
S.N.: 13716  
Date: June 6, 2018

Output Amplitude: up to  $\pm 100V$ , to 50 $\Omega$   
Pulse Width (FWHM): 1 ns to 5 us  
Rise Time (20%-80%):  $\leq 500$  ps  
Fall Time (80%-20%):  $\leq 1$  ns  
PRF: 1 Hz - 20 kHz  
Jitter, Stability: OK  
Prime Power: 100-240V AC, 50-60 Hz.

Basic specifications:  $\rightarrow$

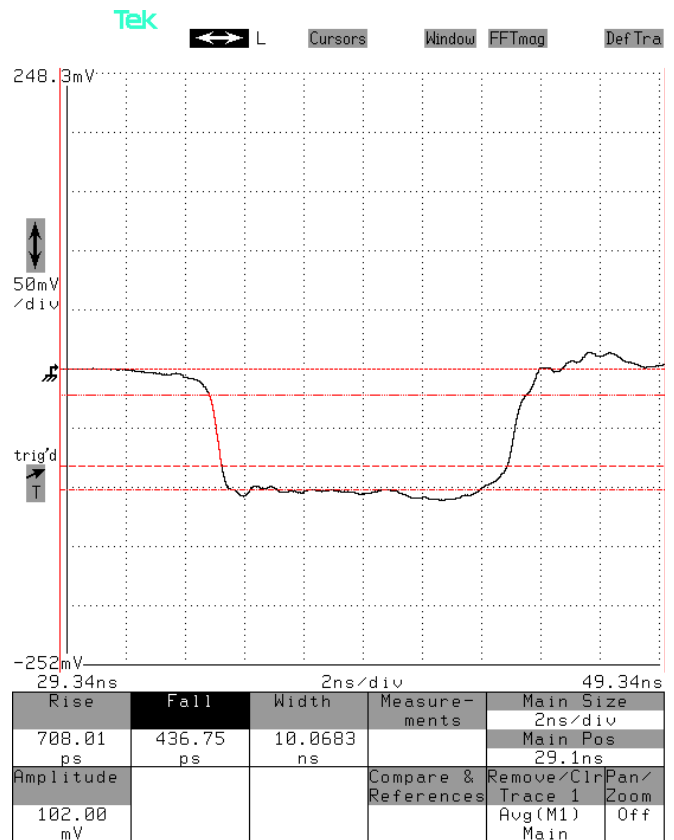
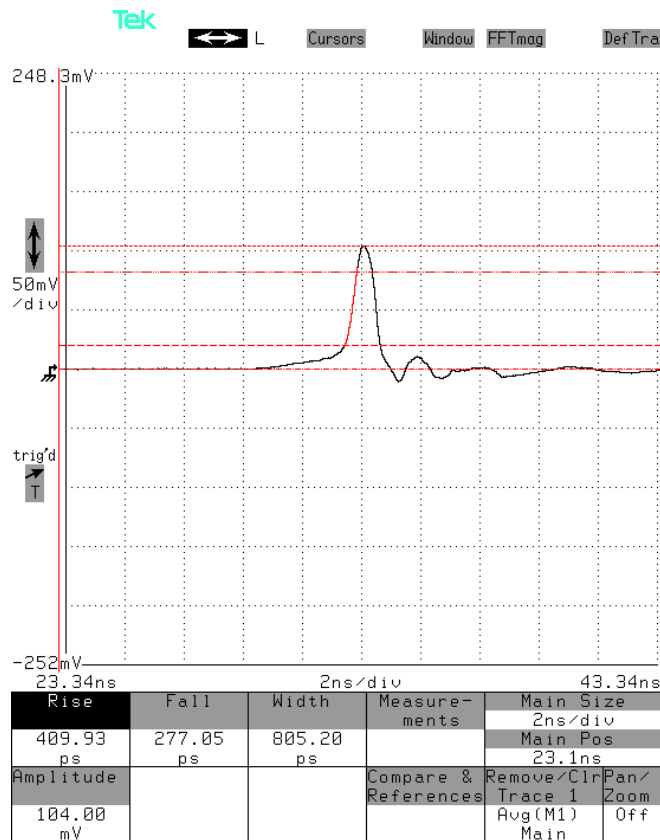
### Test Waveforms

20 kHz,  $< 1$  ns,  $> +100V$ ,

20 kHz, 10 ns,  $> -100V$ ,

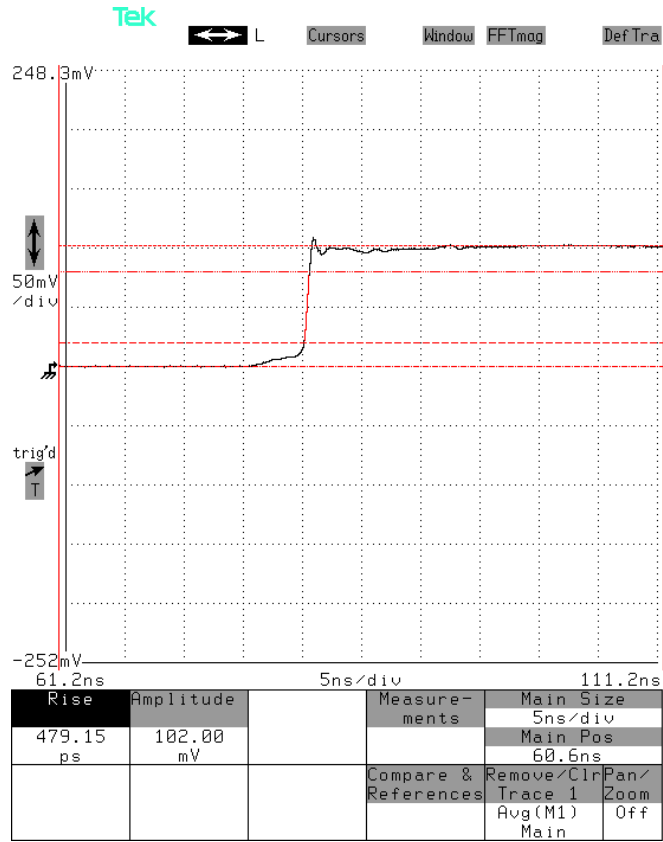
2 ns/div. 50 V/div (50 mV/div  $\times$  60 dB):

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



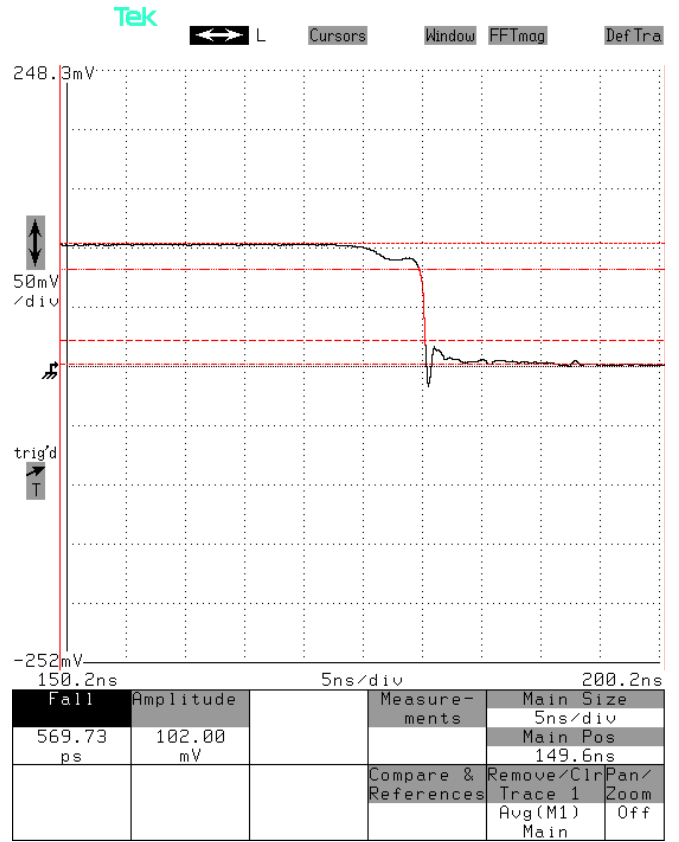
20 kHz, 100 ns, > +100V, leading edge,

5 ns/div. 50 V/div (50 mV/div × 60 dB):



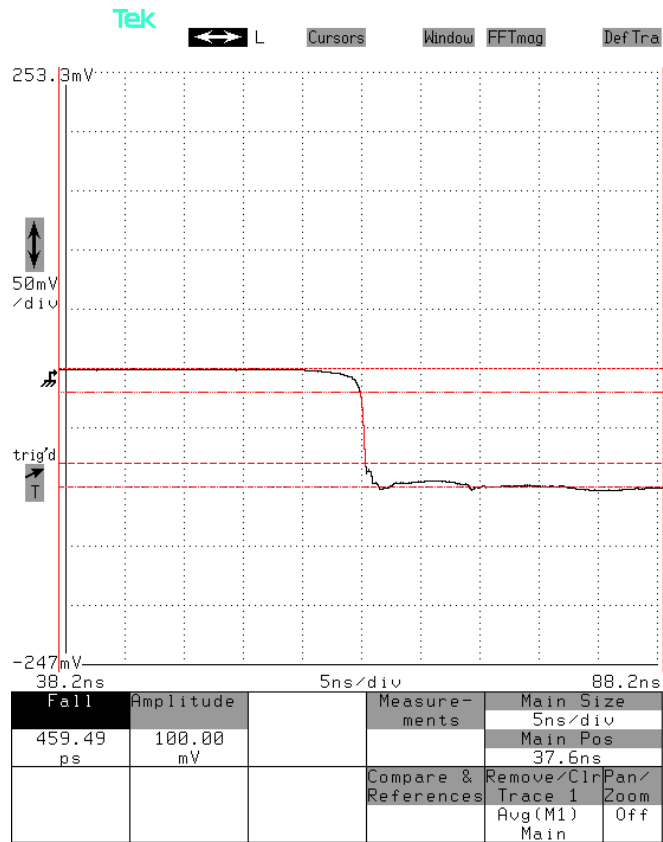
20 kHz, 100 ns, > +100V, trailing edge,

5 ns/div. 50 V/div (50 mV/div × 60 dB):



10 kHz, 5 us, -100V, leading edge,

5 ns/div. 50 V/div (50 mV/div × 60 dB):



10 kHz, 5 us, -100V, full pulse,

1 us/div. 50 V/div (50 mV/div × 60 dB):

