



# AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS  
SINCE 1975

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## PERFORMANCE CHECKSHEET

Model: AVR-E2-B-P-TEK1C  
Type: Ultra-High-Speed Pulse Generator  
S.N.: 12633  
Date: May 2, 2011

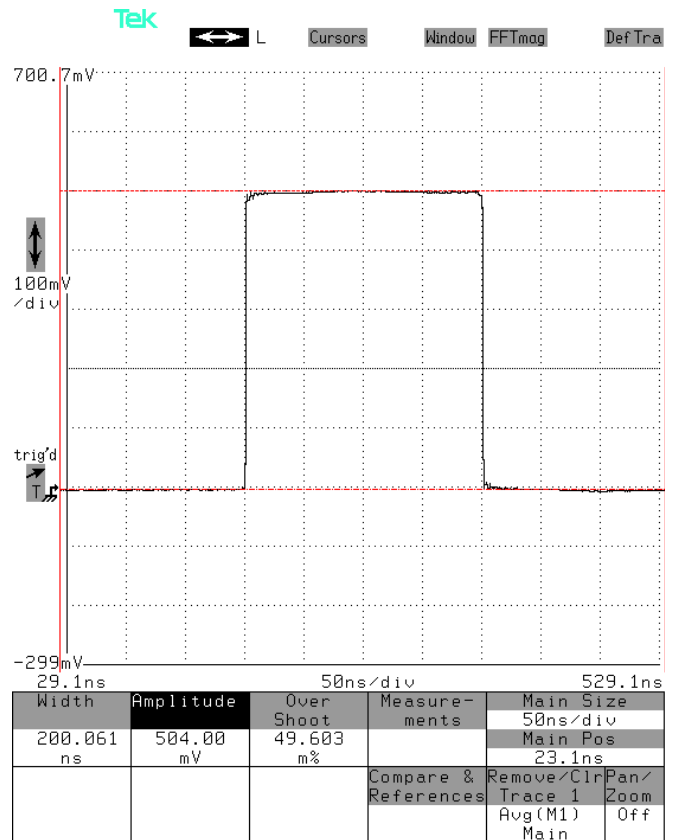
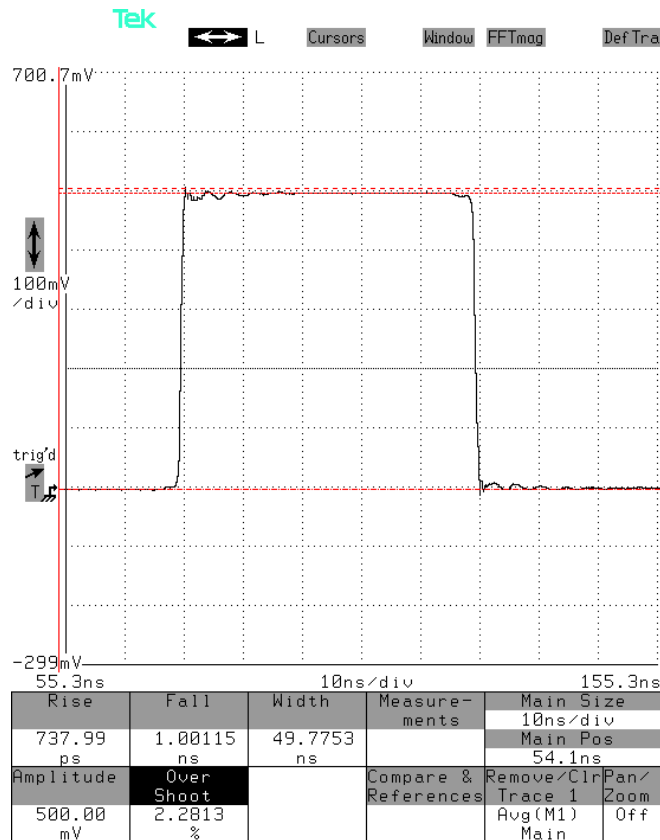
Output Amplitude: +10 to +50V, into 50Ω  
Pulse Width (FWHM): 50 – 200 ns  
Rise Time (10%-90%): > 0.6 but < 1.0 ns  
Fall Time (90%-10%): > 0.6 but < 2.0 ns  
PRF: 1 Hz - 100 kHz  
Jitter, Stability: OK  
Prime Power: 100-240V AC, 50-60 Hz.

Basic specifications: →

### Test Waveforms

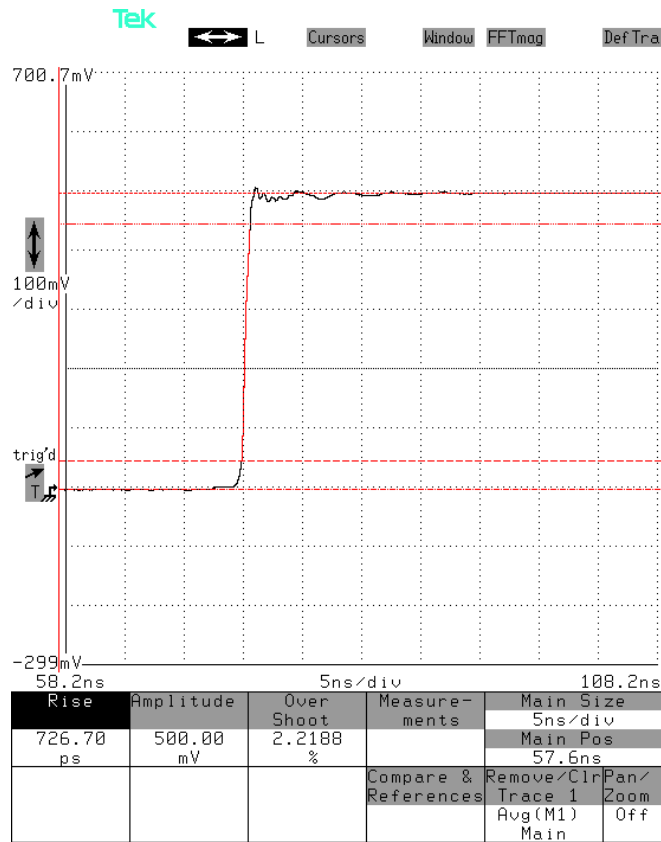
Full pulse at 10 kHz, 50 ns, +50V,  
10 ns/div. 10 V/div (100 mV × 40 dB):

Full pulse at 10 kHz, 200 ns, +50V,  
10 ns/div. 10 V/div (100 mV × 40 dB):



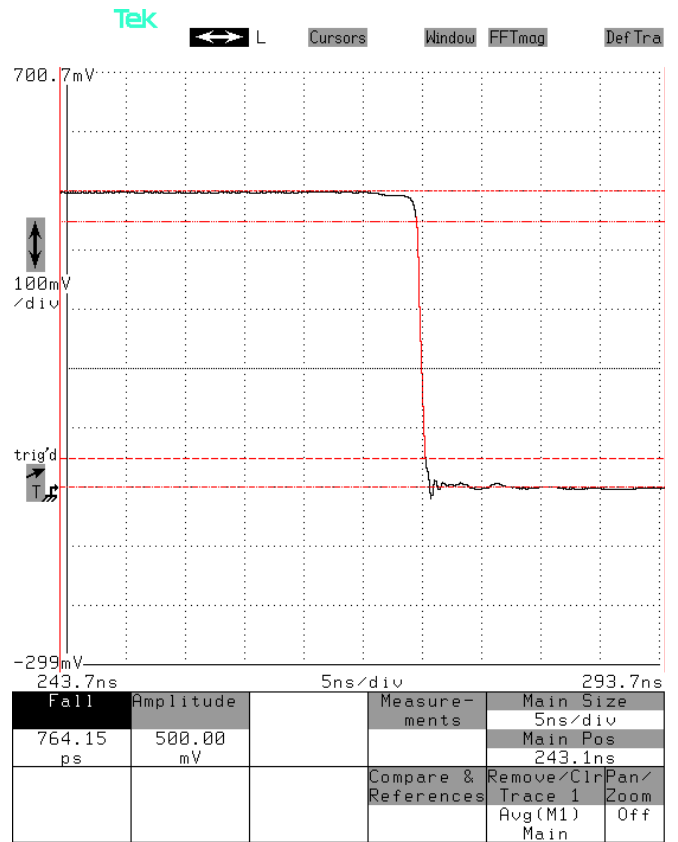
Leading edge at 10 kHz, 200 ns, +50V,

5 ns/div. 10 V/div (100 mV × 40 dB):



Trailing edge at 10 kHz, 200 ns, +50V,

5 ns/div. 10 V/div (100 mV × 40 dB):



Pulse top aberrations at maximum amplitude (+50V): < +/-5% within the first 20 ns and last 12 ns of the pulse, and < +/-2% for the remaining middle portion of the pulse.