



# AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS  
SINCE 1975

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BOX 5120, LCD MERIVALE  
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CANADA K2C 3H5

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## PERFORMANCE CHECKSHEET

Model: AV-144C3-PS-AC03  
Type: TTL pulse amplifier  
S.N.: 13346  
Date: October 9, 2015

Output Amplitude: +30V, to 50 Ω  
Input Amplitude: TTL, 1 kΩ  
Rise Time (20%-80%): ≤ 10 ns  
Fall Time (80%-20%): ≤ 10 ns  
PRF: 1 MHz maximum  
Jitter, Stability: OK  
Prime Power: 100-240V AC, 50-60 Hz.

Basic specifications: →

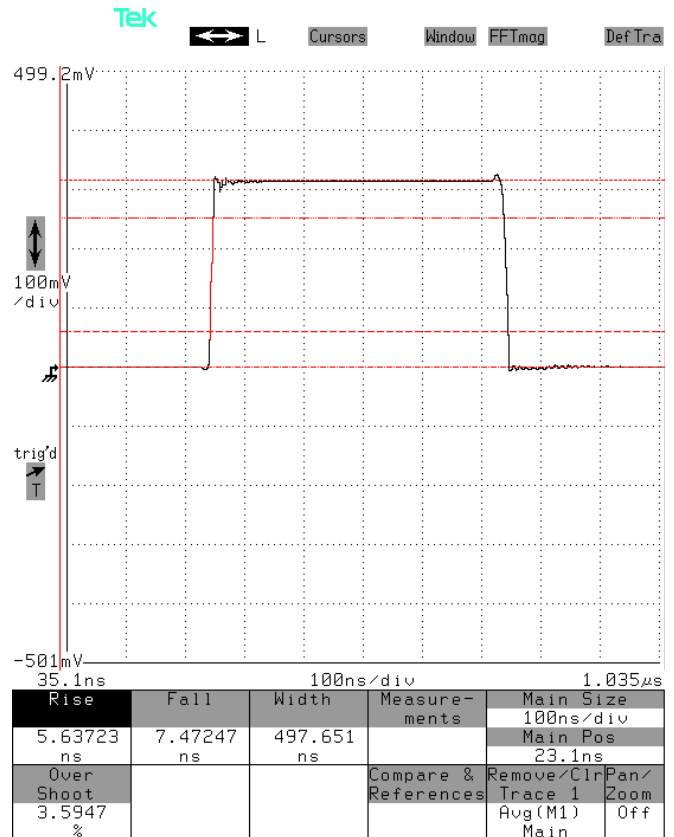
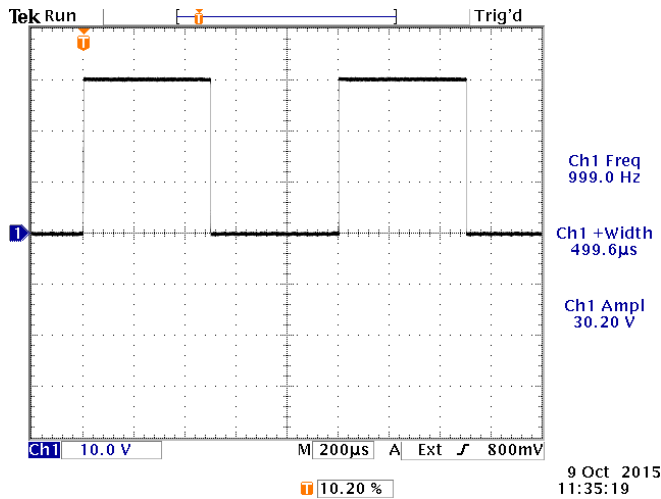
### Test Waveforms

1 kHz, 50% duty cycle, +30V.

500 ns, +30V output pulse into a high-bandwidth oscilloscope (> 10 GHz).

200 us/div. 10V/div.

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



Top: 1 MHz TTL input pulses, 2V/div.  
Bottom: +30V output pulses into 50  $\Omega$ , 10V/div.

Both: 200 ns/div.

