

## AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS SINCE 1975

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BOX 5120, LCD MERIVALE OTTAWA, ONTARIO CANADA K2C 3H4

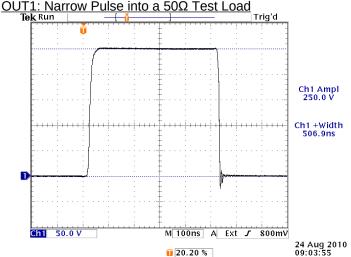
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## PERFORMANCE CHECKSHEET

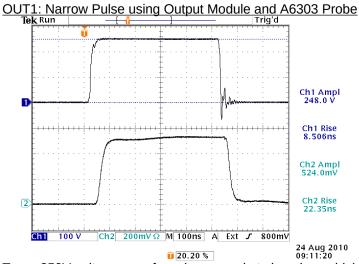
Model: AVR-3-PW-TEK3-B-P

Type: High-Speed Current Probe Test System

S.N.: 11234 (re-calibration)
Date: August 24, 2010



Output of "OUT1" connector, terminated into an external 50 Ohm test load. Viewed with TDS3052 scope. 50V/div, 100 ns/div. 10 Hz.



Top: +250V voltage waveform (measured at clamping cable). Bottom: Output of A6303 probe, viewed with TDS3052 scope. The A6303 probe is clamped to the shorting cable.

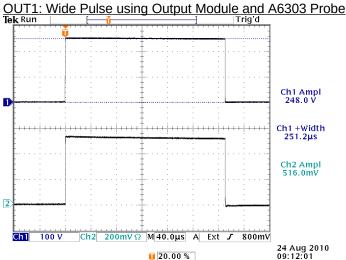
- a) Output Signal Amplitude (to  $50\Omega$ ): OUT1: 0 to +250V (+5A max.) OUT2: 0 to +50 V (+1A max.)
- b) Pulse Width:

OUT1: 250 ns to 250 us OUT1: 50 ns to 200 ns

- c) Rise Time (20-80%): OUT1: < 10 ns OUT2: < 0.5 ns
- d) Fall Time (80-20%): OUT1: < 10 ns OUT2: < 0.5 ns
- e) PRF: 0 10 kHz
- f) Jitter, Stability: OK
- g) Prime Power: 100-240V AC, 50-60 Hz.

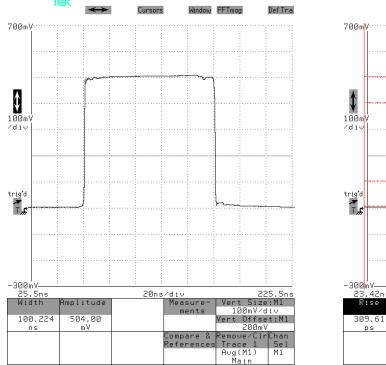
The current probes used in obtaining these waveforms are not calibrated, and are for examples purposes only. The amplitudes from the probes may be out of tolerance.

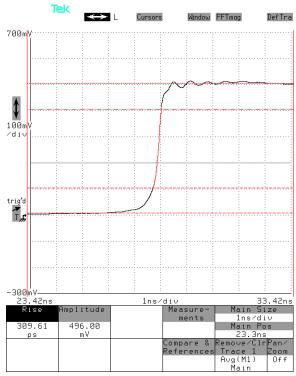
All rise/fall references levels: 20%, 80%.



Top: +250V voltage waveform (measured at clamping cable). Bottom: Output of A6303 probe, viewed with TDS3052 scope. The A6303 probe is clamped to the shorting cable.

## OUT2: 100 ns Pulse into a 50Ω Test Load

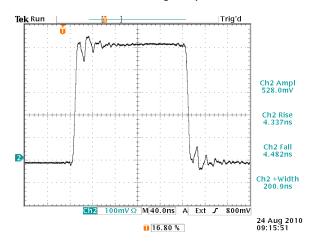


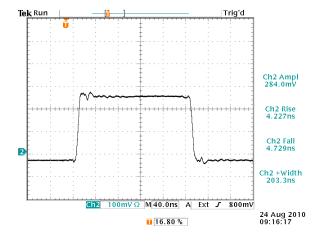


10 V/div (100 mV/div x 40 dB), 50 ns/div. "OUT2" into a sampling oscilloscope.

Scaled at 1 ns / div to show rising edge.

## OUT2: 200 ns Pulse using Output Module and P6042 Probe





Output of P6042 probe, viewed with TDS3052 scope. The P6042 probe is clamped to the shorting cable.

Output of P6042 probe, with a 6 dB attenuator installed between the OUT2 connector and the cable to the output module. The 6 dB attenuator tends to absorb transmission line reflections.