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BOX 5120, LCD MERIVALE
OTTAWA, CANADA K2C3H5

PERFORMANCE CHECKSHEET

Model: AVRK-4-B-PN-DP-ESF
Type: High Voltage Pulse Generator
S.N.: 14113
Date: March 15, 2021

Output Amplitude: up to $\pm 750V$, to 50Ω
Pulse Width (FWHM): 6 to 20 ns
Rise Time (20%-80%): ≤ 4 ns
Fall Time (80%-20%): varies with PW/amp
PRF: 1 Hz - 1 kHz
Jitter, Stability: OK
Prime Power: 100-240V AC, 50-60 Hz

Basic specifications: →

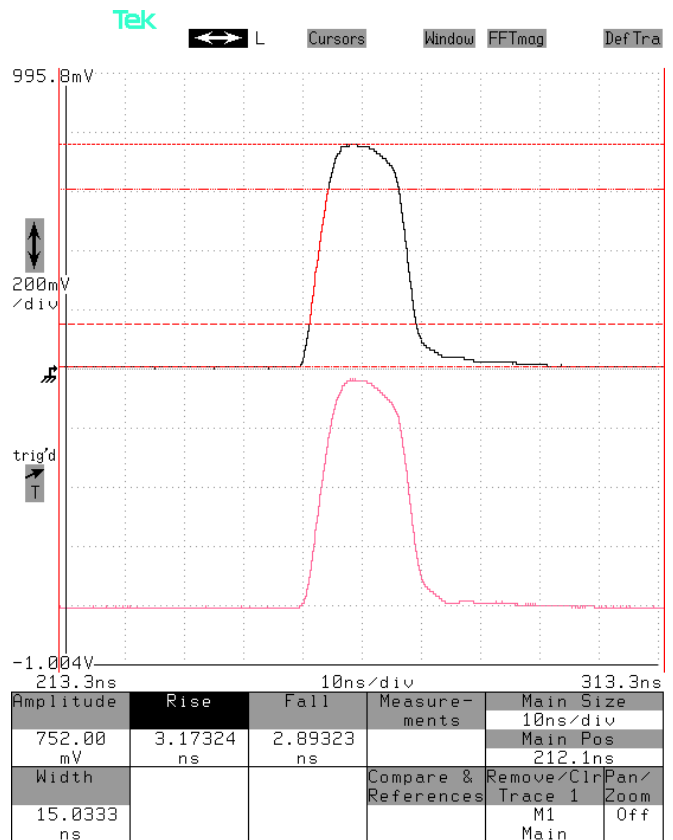
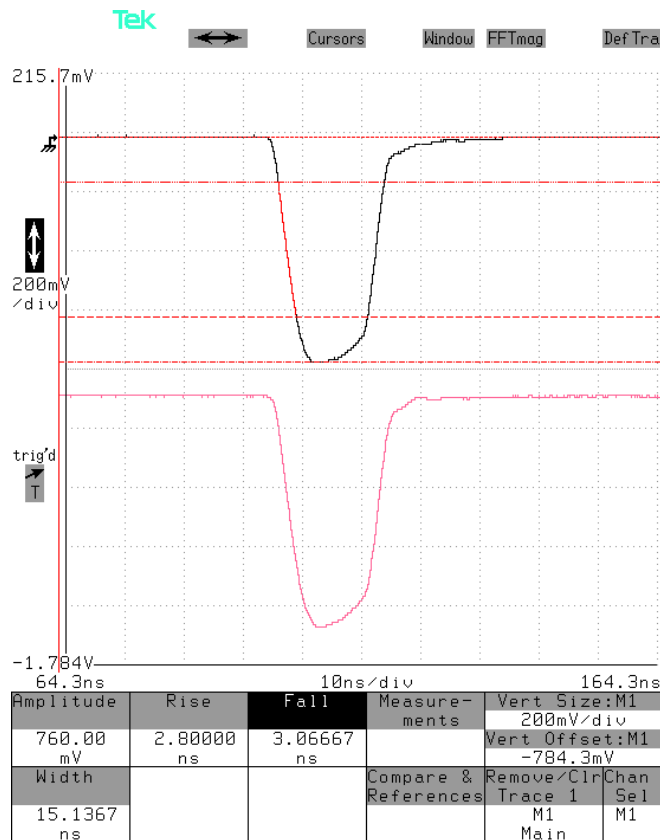
Test Waveforms

CH1, 1 kHz, 15 ns, -750V, into 50Ω

CH2, 1 kHz, 15 ns, +750V, into 50Ω

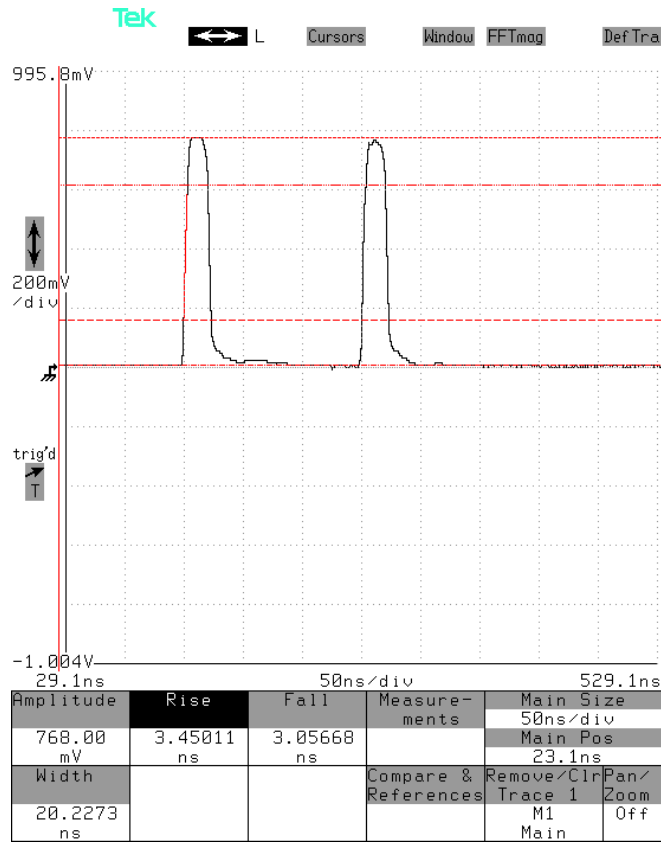
Top (main out): 200 V/div (200 mV/div \times 60 dB)
Bottom (monitor): 20 V/div (200mV/div \times 40 dB)
Both: 10 ns/div.

Top (main out): 200 V/div (200 mV/div \times 60 dB)
Bottom (monitor): 20 V/div (200mV/div \times 40 dB)
Both: 10 ns/div.



Pulse doublet, 1 kHz, both 20 ns, both > +750V, into 50Ω

50 ns/div, 200 V/div (200 mV/div × 60 dB)



Same doublet settings, but with the AVRK output fed through the supplied AVX-M4-H accessory transformer (÷4 voltage, ×4 current, nominally) into a 3.1Ω load:

50 ns/div, 50 V/div (50 mV/div × 60 dB)

