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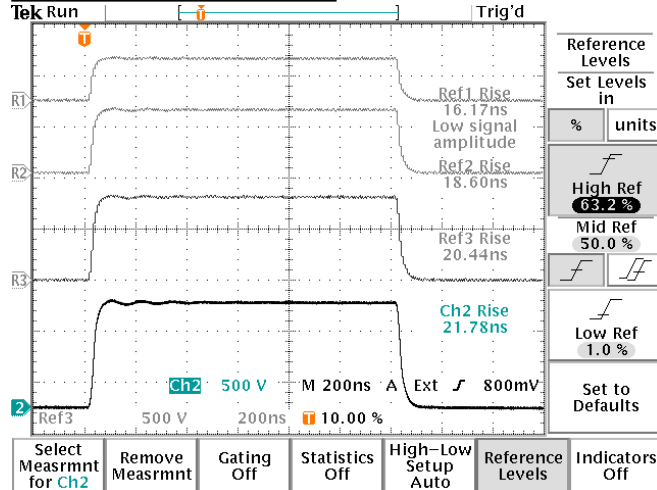
BOX 5120, LCD MERIVALE  
OTTAWA, ONTARIO  
CANADA K2C 3H5

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PERFORMANCE CHECKSHEET

Model: AVR-DV1-B-AC22-FTR  
Type: High-Voltage Phototriac dV/dt Test System  
S.N.: 13759  
Date: July 18, 2018

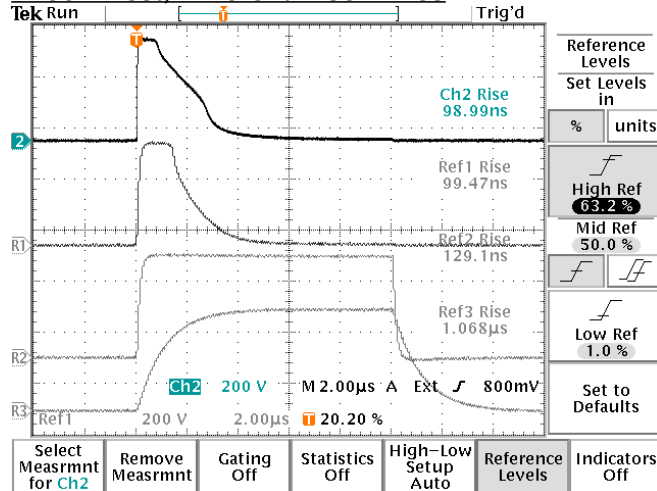
Minimum Rise Time Test



- a) Output Signal Amplitude: 0 to ±1000V
- b) Pulse Width (FWHM): 200 ns - 200 us
- c) Rise, fall times (1%-63.2%):
  - < 16.8 ns at 400V
  - < 19 ns at 600V
  - < 22 ns at 800V
  - < 25 ns at 1000V
- d) PRF: 1 Hz – 1 kHz
- e) Jitter, Stability: OK
- f) Prime Power: 100-240V AC, 50-60 Hz.

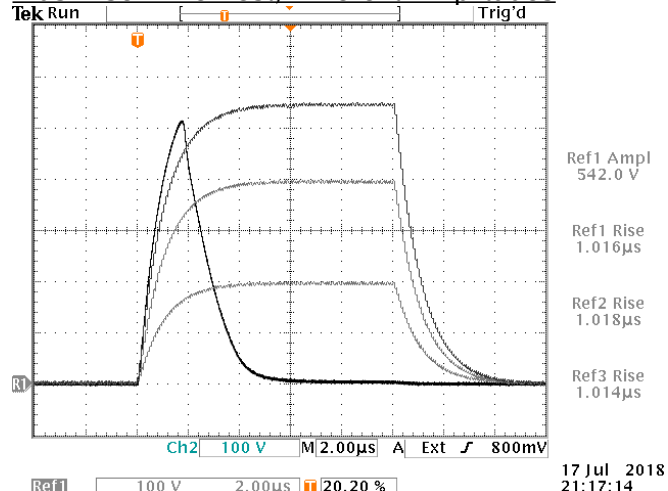
+400V, +600V, +800V, +1kV, at minimum rise time. 500 V/div, 200 ns/div. No DUT.

+400V Test, Different Rise Times



DUT = Fairchild MOC3052M. Fastest dV/dt without voltage collapse at 400V is  $0.632 \times 400V / 129.1 \text{ ns} = 1958 \text{ V/us}$ .

1 us Rise Time Test, Different Amplitudes



DUT = Fairchild MOC3052M. The highest amplitude for  $T \approx 1 \text{ us}$  without voltage collapse is 542V, giving  $0.632 \times 542V / 1.016 \text{ us} = 337 \text{ V/us}$ .