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BOX 5120, LCD MERIVALE  
OTTAWA, CANADA K2C3H5

PERFORMANCE CHECKSHEET

Model: AVO-9Z-B-N-P1CR1  
Type: Ultra-High-Speed Laser Diode Driver  
S.N.: 13963  
Date: March 18, 2020

Output Amplitude: up to -400V to 50Ω  
Pulse Width (FWHM): 8 - 100 ns  
Rise Time (20%-80%): ≤ 4 ns  
Fall Time (80%-20%): ≤ 5 ns  
PRF: 1 Hz – 2 kHz  
Jitter, Stability: OK  
Prime Power: 100-240V AC, 50-60 Hz.

Basic specifications: →

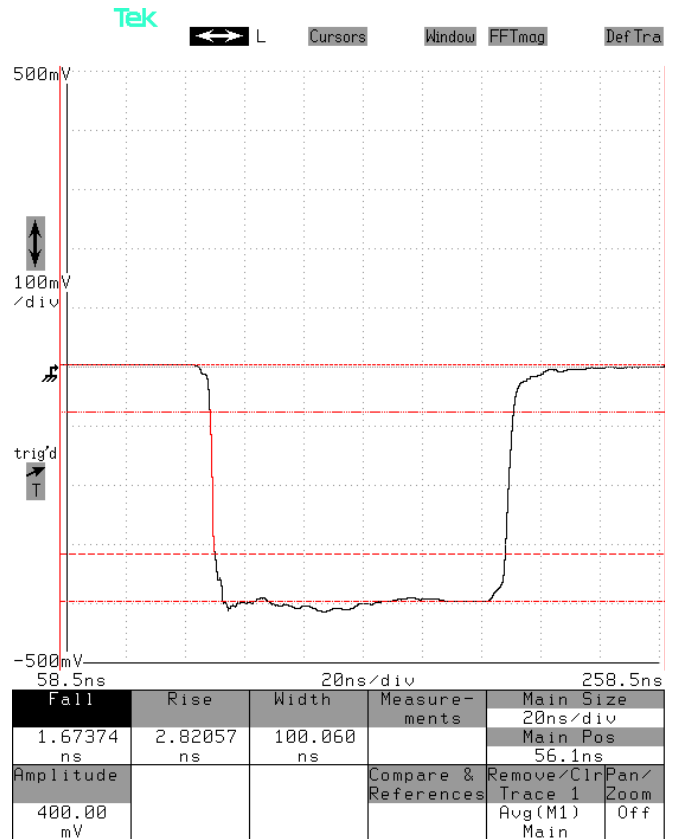
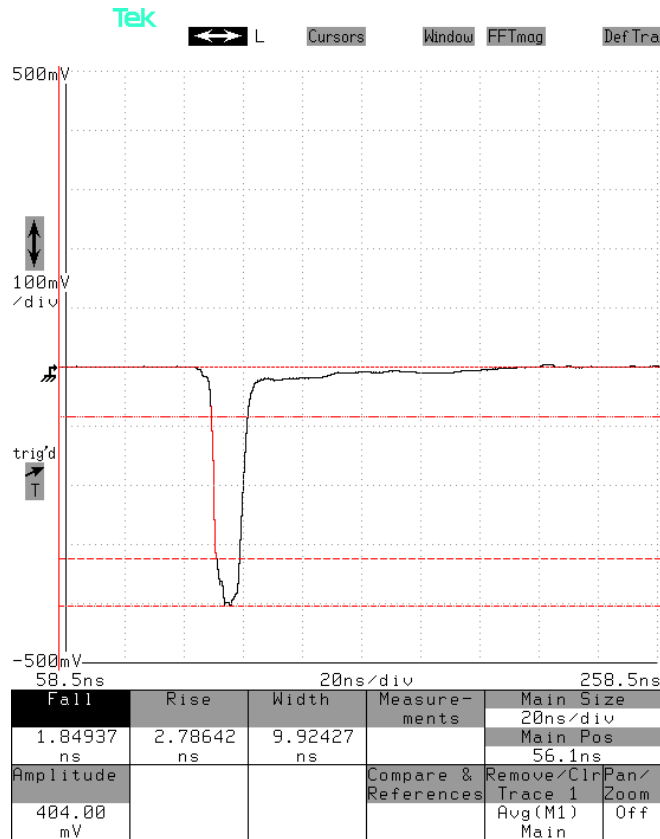
Test Waveforms

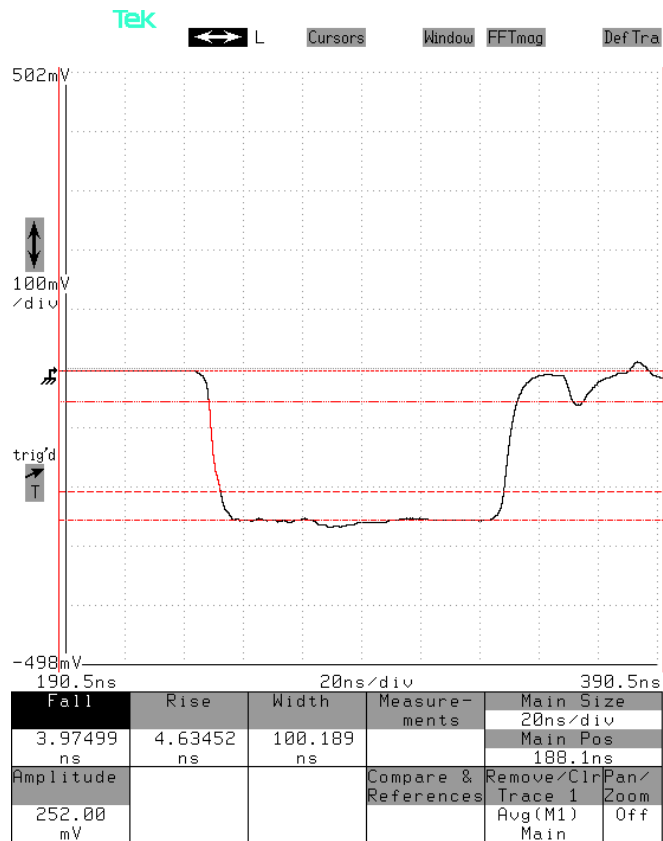
Mainframe output into 50 Ohm load at 2 kHz,  
10 ns, -400V,

Mainframe output into 50 Ohm load at 2 kHz,  
100 ns, -400V,

20 ns/div. 100 V/div (100 mV/div × 60 dB):

20 ns/div. 100 V/div (100 mV/div × 60 dB):





Test method: Short leads are soldered across a chip resistor. A coaxial cable is soldered across the resistor. The signal lead is inserted into the anode pin socket. The ground lead is inserted into one of the other pin sockets (which are grounded). The total effective resistor is  $1 \Omega \parallel 50 \Omega (R_{SCOPE}) = 0.98 \Omega$ .



-25A pulse (approximately) into a  $0.98 \Omega$  test load installed on the output module. 20 ns/div, 10 V/div (100 mV/div  $\times$  40 dB).