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

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PERFORMANCE CHECKSHEET

Model: AVO-9A3-B-P1B-T1B-P-HICA  
Type: Ultra-High-Speed Laser Diode Driver  
S.N.: 12967  
Date: February 11, 2013

Output Amplitude: up to +53V, to 50Ω  
Pulse Width (FWHM): 0.5 – 5 ns  
Rise Time (20%-80%): ≤ 200 ps  
Fall Time (80%-20%): ≤ 300 ps  
PRF: 1 Hz – 100 kHz  
Jitter, Stability: OK  
Prime Power: 100-240V AC, 50-60 Hz.

Basic specifications: →

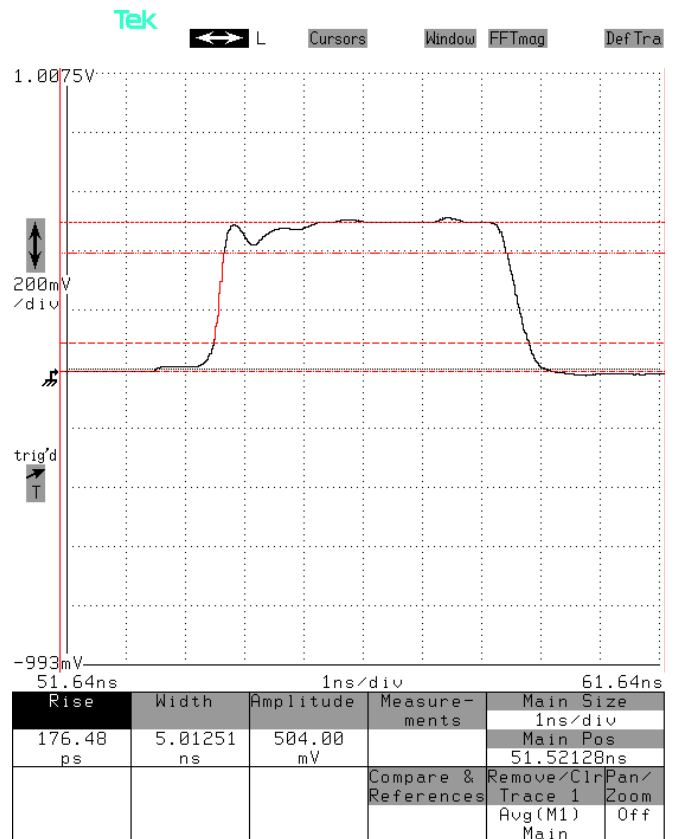
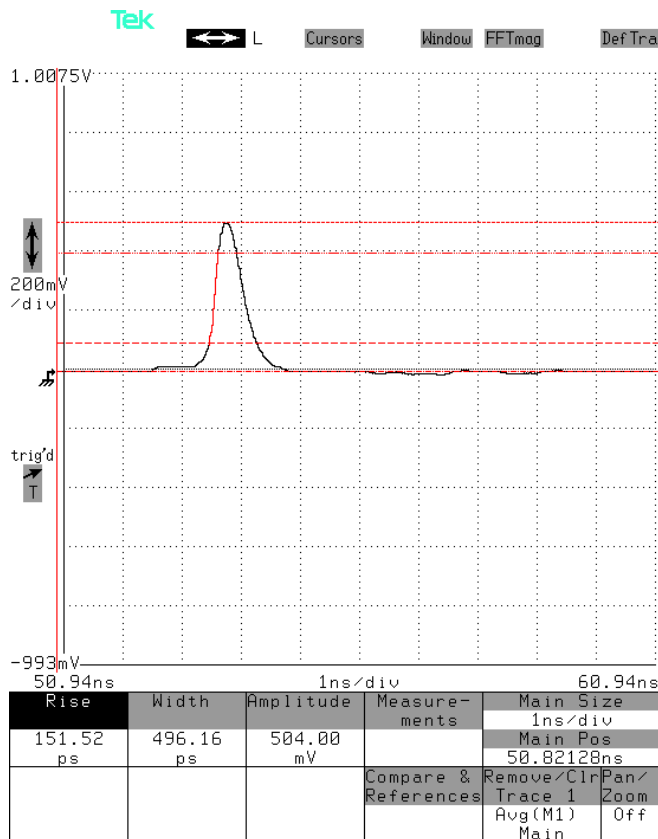
Test Waveforms

Mainframe output into 50 Ohm load at 10 kHz,  
0.5 ns, +50V,

Mainframe output into 50 Ohm load at 10 kHz,  
5 ns, +50V,

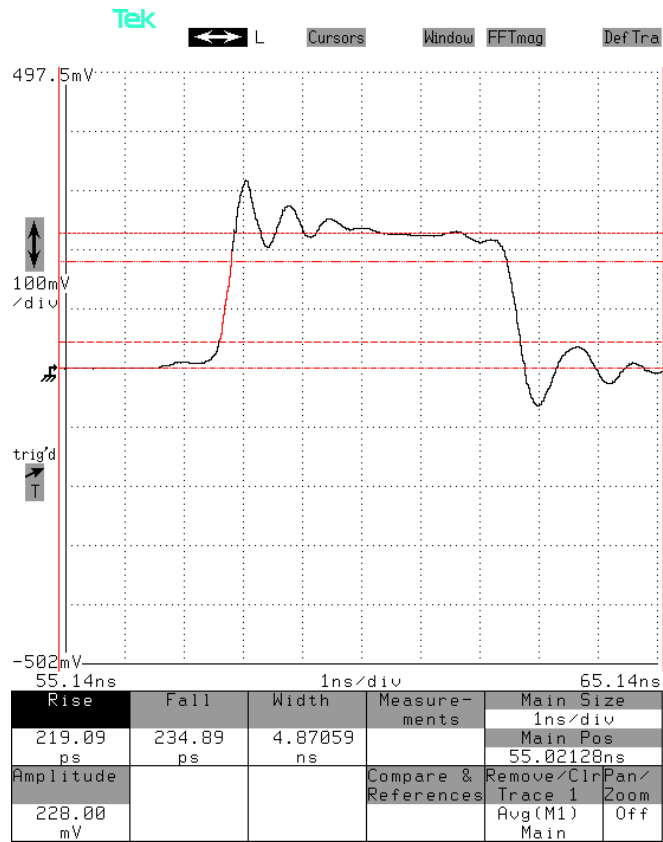
1 ns/div. 20 V/div (200 mV × 40 dB):

1 ns/div. 20 V/div (200 mV × 40 dB):



MI output of AVX-S1-HC-P1B-T1B, with 1N459A diode installed as the DUT. 10 kHz, 5 ns, +50V,

1 ns/div. 1 V/div (100 mV × 20 dB):



The spikes on the MI output are caused by the parasitic inductance in both the DUT and the monitor circuit itself.

The rise time is slightly degraded by the turn-on transient of the diode.