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BOX 5120, LCD MERIVALE  
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CANADA K2C 3H5

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PERFORMANCE CHECKSHEET

Model: AVO-9R-C-P1B-T1B-P  
Type: Ultra-High-Speed Laser Diode Driver  
S.N.: 12961  
Date: January 24, 2013

Output Amplitude: up to +15V, to 50Ω  
Pulse Width (FWHM): 0.4 - 2 ns  
Rise Time (20%-80%): ≤ 200 ps  
Fall Time (80%-20%): ≤ 250 ps  
PRF: 1 Hz – 25 MHz  
Jitter, Stability: OK  
Prime Power: 100-240V AC, 50-60 Hz.

Basic specifications: →

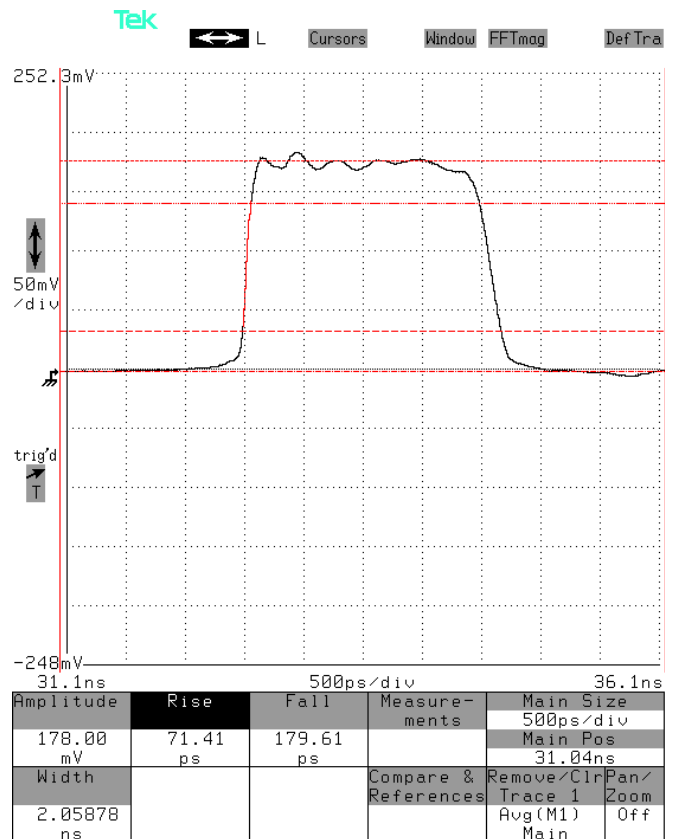
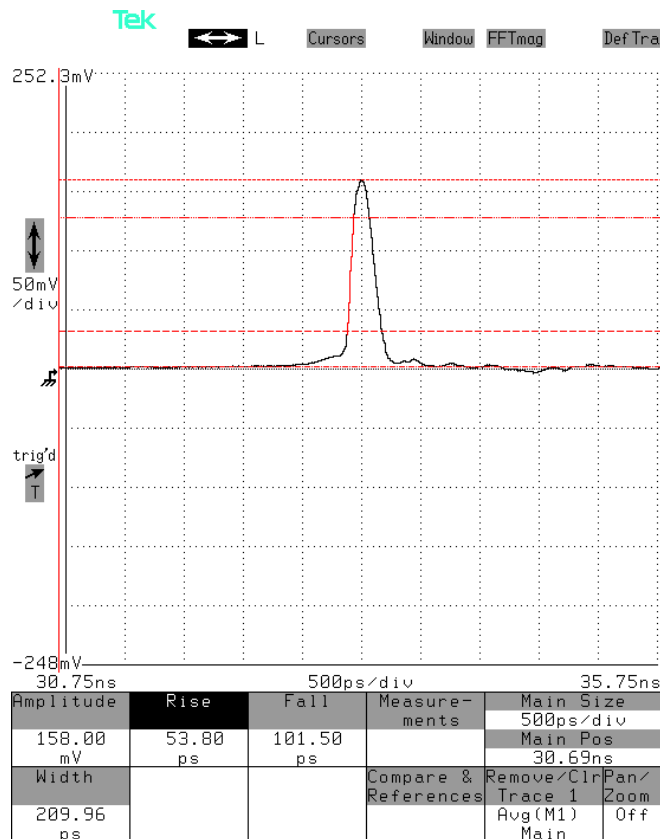
Test Waveforms

Pulse into 50 Ohm load at 12 MHz,  
0.2 ns pulse width, > +15V amplitude,

Pulse into 50 Ohm load at 12 MHz,  
> 2.0 ns pulse width, > +15V amplitude,

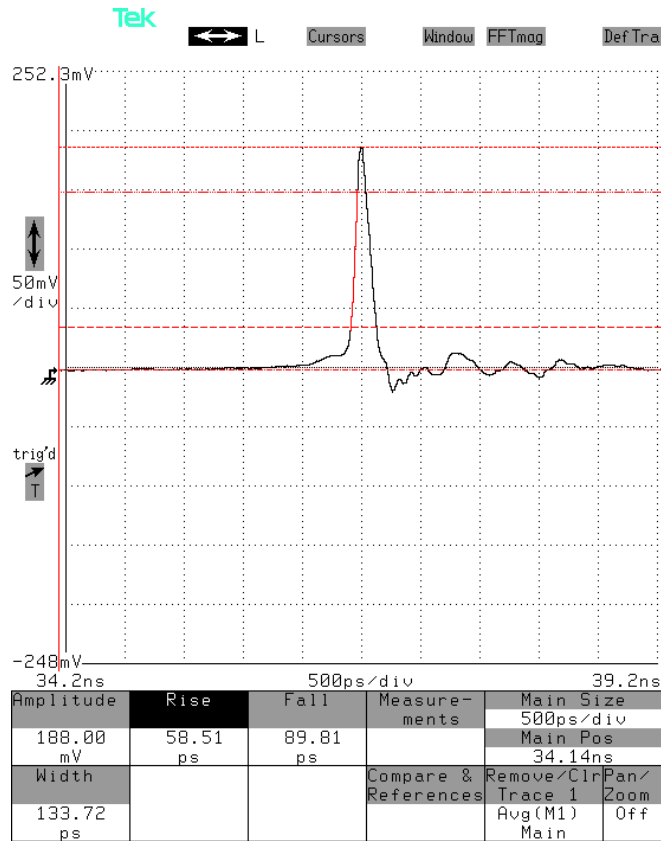
500 ps/div. 5 V/div (50 mV × 40 dB):

500 ps/div. 5 V/div (50 mV × 40 dB):



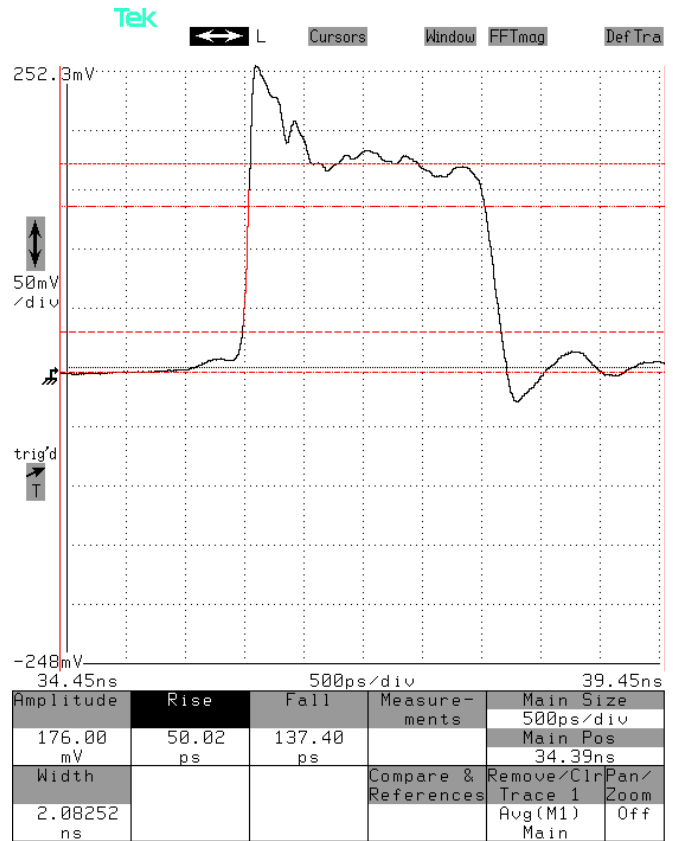
“MI” output of AVX-S1-P1B-T1B into 50 Ohms, for > +15V, 12 MHz, < 0.2 ns pulse width, with a 1N459A diode installed in the output sockets:

500 ps/div.  
0.5 V/div (50 mV × 20 dB, ≈ 105 mA/div):



“MI” output of AVX-S1-P1B-T1B into 50 Ohms, for > +15V, 12 MHz, > 2.0 ns pulse width, with a 1N459A diode installed in the output sockets:

500 ps/div.  
0.5 V/div (50 mV × 20 dB, ≈ 105 mA/div):



The spike on the leading edge is caused by a combination of the 1N459A turn-on time and parasitic inductance in the monitor circuit.