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

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PERFORMANCE CHECKSHEET

Model: AVO-9A5-B-P2-P-KTA-TRA  
Type: Ultra-High-Speed Laser Diode Driver  
S.N.: 13327  
Date: September 1, 2015

Output Amplitude: up to +53V, to 50Ω  
Pulse Width (FWHM): 1 - 10 ns  
Rise Time (20%-80%): ≤ 500 ps  
Fall Time (80%-20%): ≤ 1 ns  
PRF: 1 Hz – 1 MHz  
Jitter, Stability: OK  
Prime Power: 100-240V AC, 50-60 Hz.

Basic specifications: →

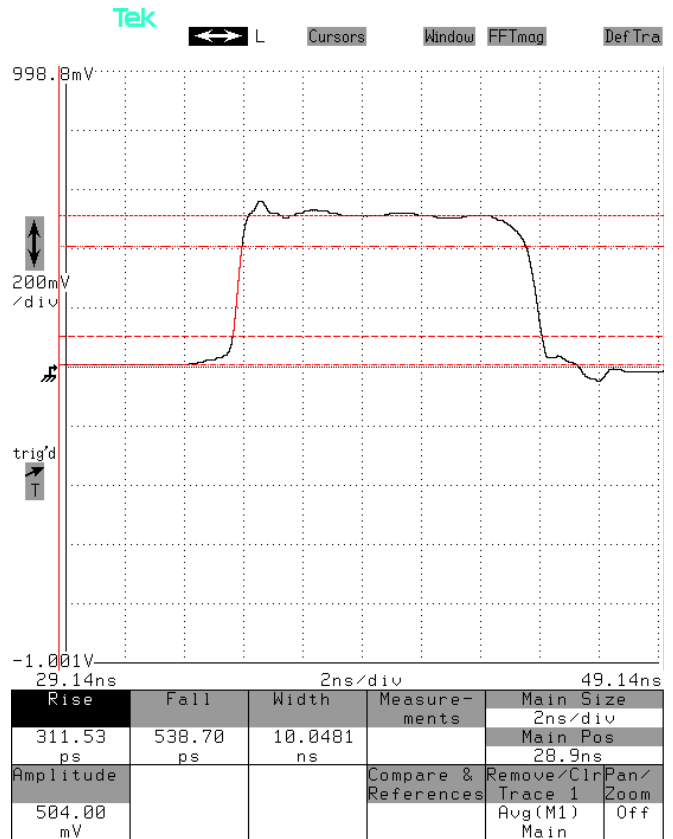
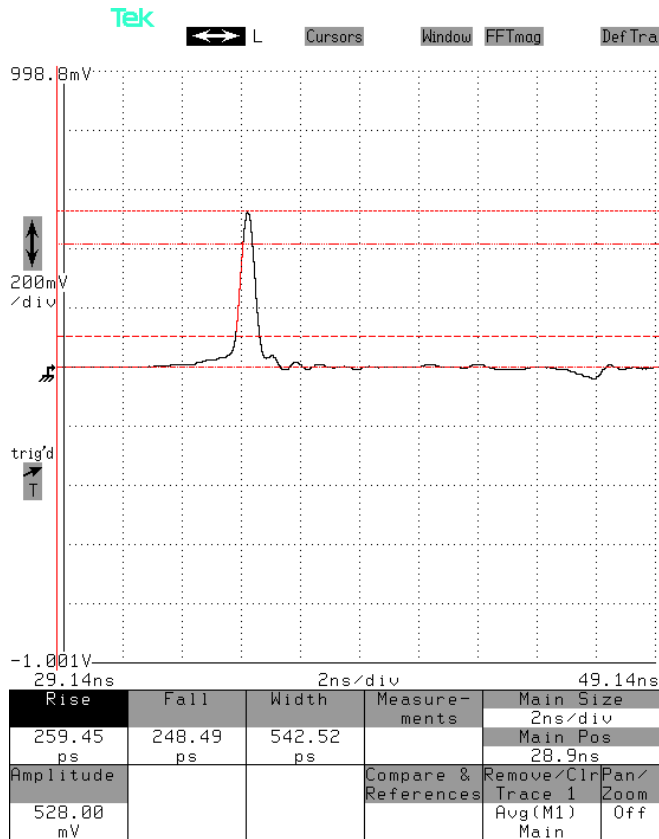
Test Waveforms

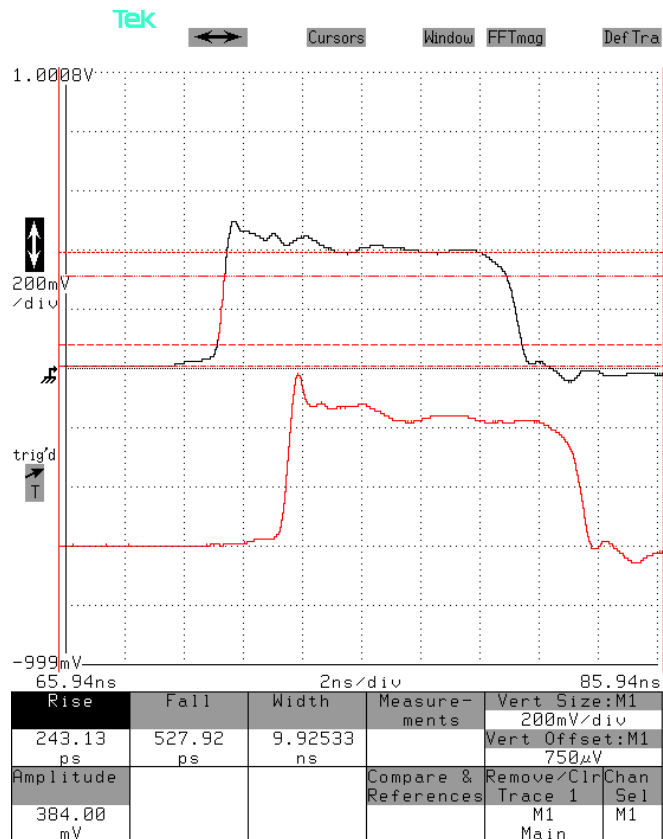
Mainframe output into 50 Ohm load at 1 MHz,  
< 1 ns, +53V,

Mainframe output into 50 Ohm load at 1 MHz,  
10 ns, +50V,

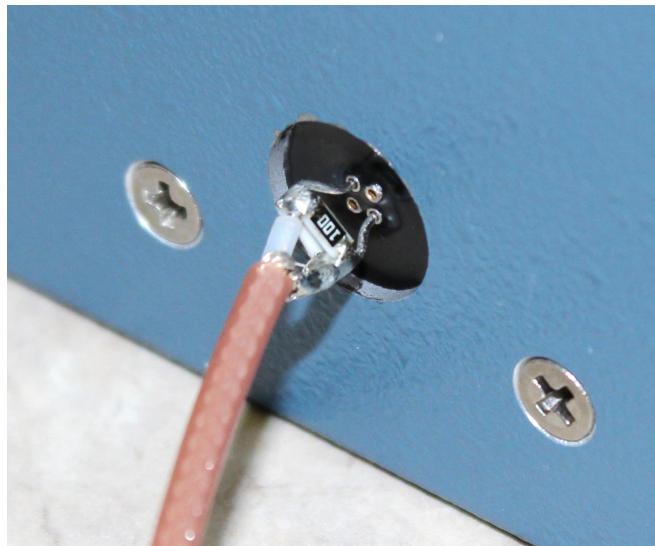
2 ns/div. 20 V/div (200 mV/div × 40 dB):

2 ns/div. 20 V/div (200 mV/div × 40 dB):





Test method: Short leads are soldered across two 10Ω chip resistors in parallel. 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  $5\ \Omega \parallel 50\ \Omega$  ( $R_{SCOPE} = 4.5\ \Omega$ ).



Top waveform: Voltage across the parallel combination of the 4.5 Ω effective resistance. It should be approximately  $(+50V / 54.5\Omega) \times 4.5\Omega = +4.1V$  in amplitude, which agrees approximately with the observed waveform.

Bottom waveform: “M1” output, approximately  $+50V / 11$ .

Both: 2 ns/div, 2 V/div (200 mV/div × 20 dB).

Mainframe output into 50 Ohm load at 1 MHz,  
 10 ns, +50V, with >1 ns rise time mode (-TRA  
 option)

2 ns/div. 20 V/div (200 mV/div × 40 dB):

