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BOX 5120, LCD MERIVALE
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PERFORMANCE CHECKSHEET

Model: AVO-9A3-B-P1C-T1C-W4-N
Type: Ultra-High-Speed Laser Diode Driver
S.N.: 12555
Date: December 1, 2010

Output Amplitude: 0 to -43V, to 50Ω
Pulse Width (FWHM): 0.4 – 4 ns
Rise Time (20%-80%): ≤ 200 ps
Fall Time (80%-20%): ≤ 450 ps
PRF: 1 Hz – 1 MHz
Jitter, Stability: OK
Prime Power: 100-240V AC, 50-60 Hz.

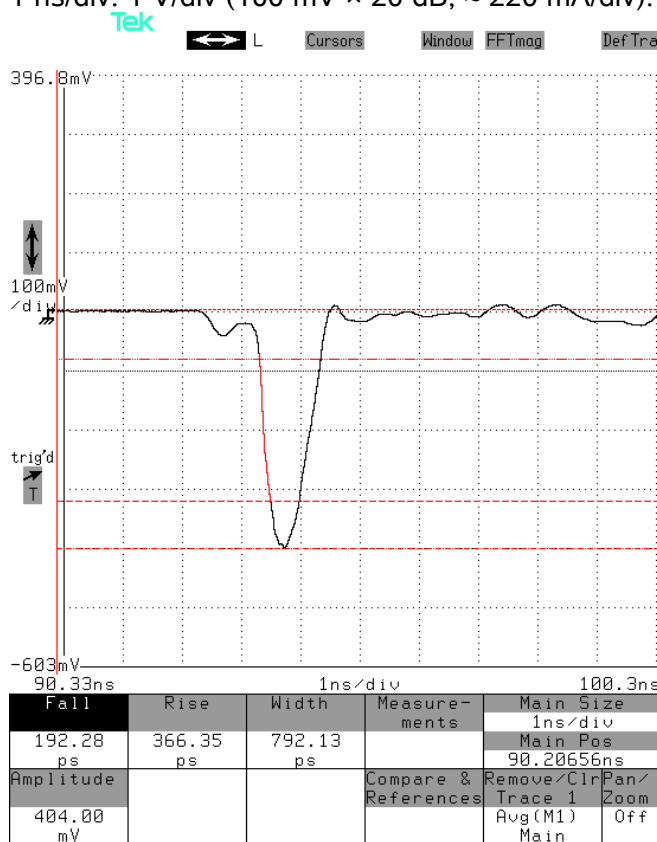
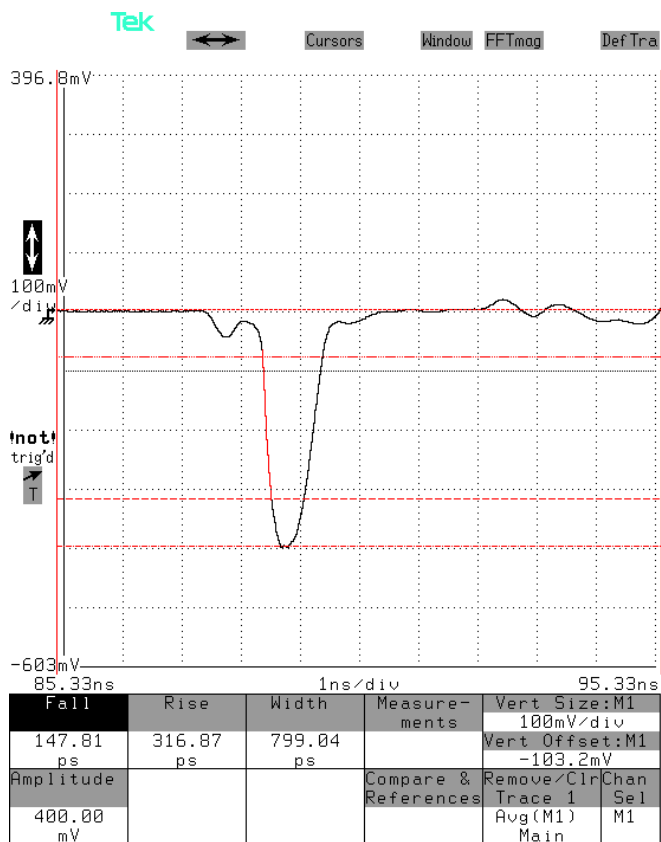
Basic specifications: →

Test Waveforms

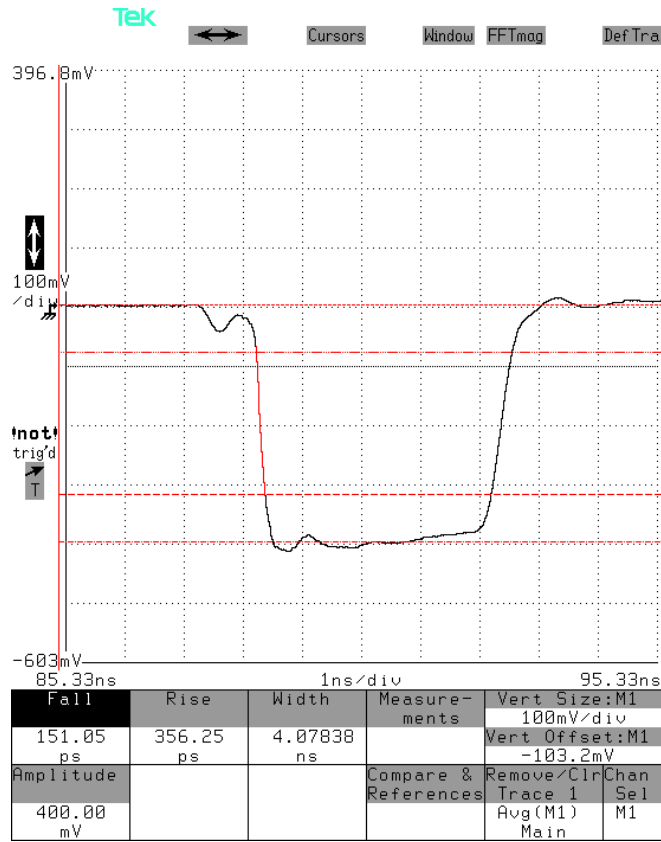
Pulse into 50 Ohm load at 10 kHz, 0.8 ns, -40V,
1 ns/div. 10 V/div (100 mV × 40 dB):

“MI” output of AVX-S1-P1C-T1C into 50 Ohms,
for -40V, 10 kHz, 0.8 ns pulse width, with a
1N459A test diode in series with 27 Ohms,
installed in the output sockets:

1 ns/div. 1 V/div (100 mV × 20 dB, ≈ 220 mA/div):

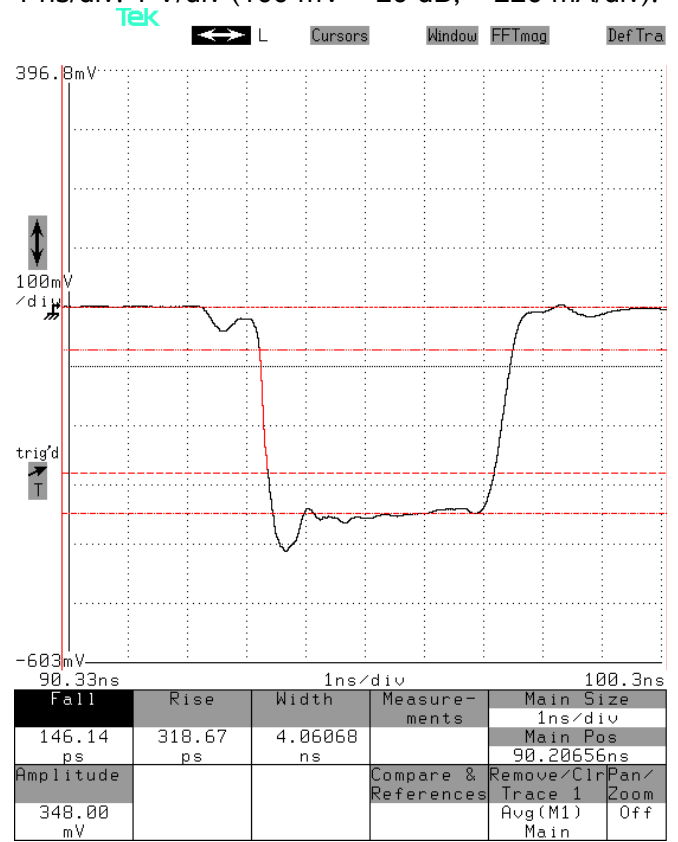


Pulse into 50 Ohm load at 10 kHz, > 4 ns, -40V,
 1 ns/div. 10 V/div (100 mV × 40 dB):



“MI” output of AVX-S1-P1C-T1C into 50 Ohms,
 for -40V, 10 kHz, > 4 ns pulse width, with a
 1N459A test diode in series with 27 Ohms,
 installed in the output sockets:

1 ns/div. 1 V/div (100 mV × 20 dB, ≈ 220 mA/div):



The spike on the leading edge is caused by the
 turn-on transient of the diode.