AVTECH ELECTROSYSTEMS LTD.
NANOSECOND WAVEFORM ELECTRONICS
SINCE 1975

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PERFORMANCE CHECKSHEET

Model: AVO-9A-B-P-P3-SLAA
Type: Ultra-High-Speed Laser Diode Driver
S.N.: 11869
Date: November 16, 2007

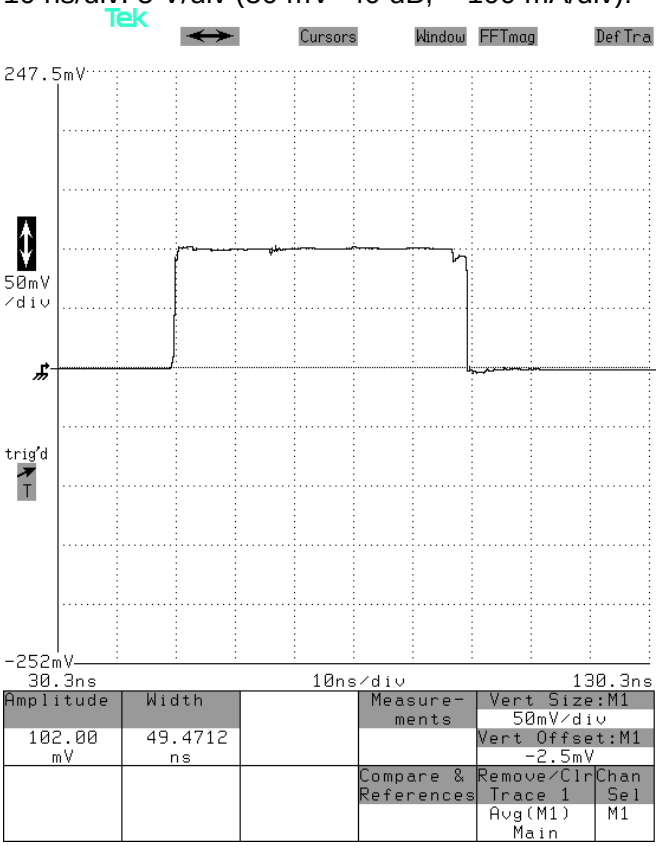
Basic specifications: →

Output Amplitude:	+10V / 140 mA maximum
Pulse Width (FWHM):	2 – 50 ns
Rise Time (20%-80%):	≤ 200 ps
Fall Time (80%-20%):	≤ 200 ps
PRF:	1 Hz - 50 kHz
Jitter, Stability:	OK
Prime Power:	100-240V AC, 50-60 Hz.

Test Waveforms

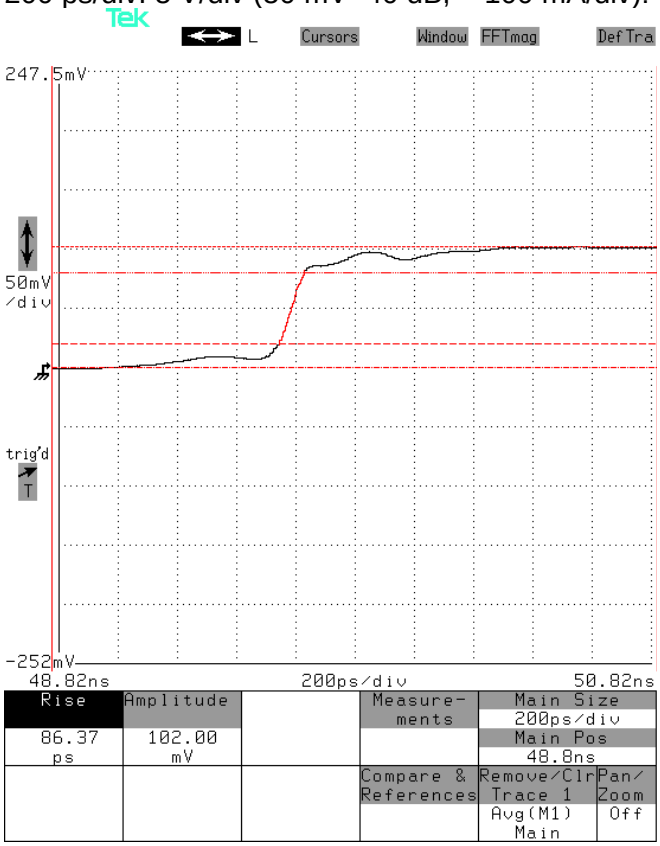
Mainframe output, +10V into 50 Ohms, 50 kHz, 50 ns pulse width:

10 ns/div. 5 V/div (50 mV×40 dB, = 100 mA/div):



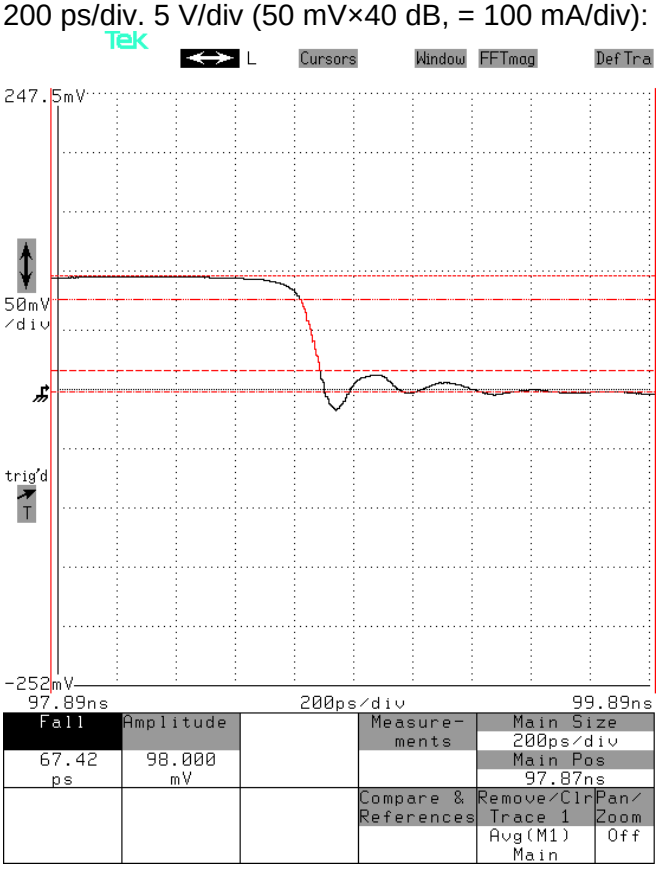
Same as previous pulse, but scaled to show the leading edge:

200 ps/div. 5 V/div (50 mV×40 dB, = 100 mA/div):



Same as previous pulse, but scaled to show the trailing edge:

200 ps/div. 5 V/div (50 mV×40 dB, = 100 mA/div):



“MI” output of AVX-S1-SLAA into 50 Ohms, for +10V, 50 kHz, 50 ns pulse width, with a 10 Ohm resistor installed between pins 2 and 6. The parasitic inductance causes voltage spikes:

10 ns/div. 500 mV/div (50 mV × 20 dB):