AVTECH ELECTROSYSTEMS LTD.
NANOSECOND WAVEFORM ELECTRONICS
SINCE 1975

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BOX 5120, LCD MERIVALE
OTTAWA, ONTARIO
CANADA K2C 3H4

PERFORMANCE CHECKSHEET

Model: AVO-9H-B-P-P2-SCHA
Type: Ultra-High-Speed Laser Diode Driver
S.N.: 12171
Date: February 4, 2009

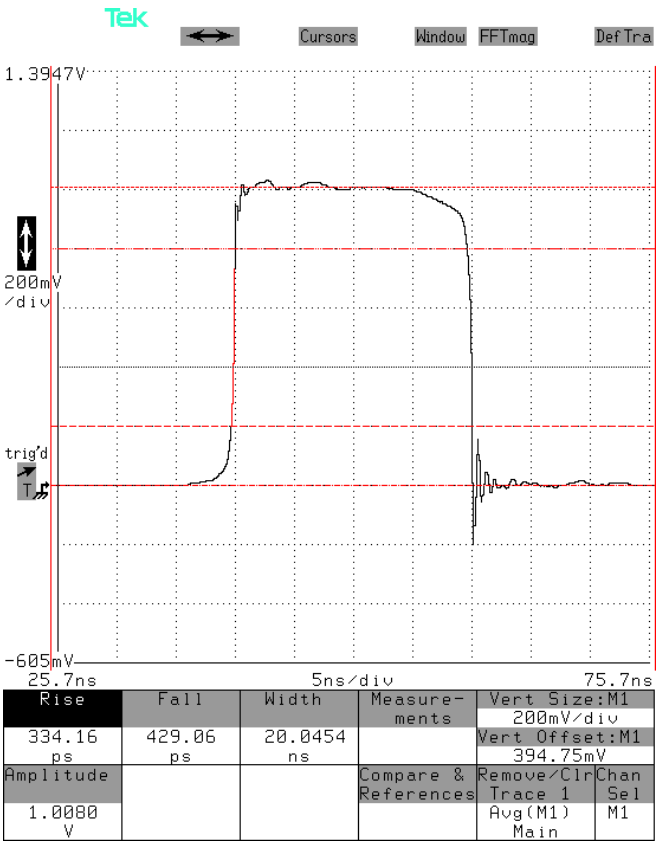
Basic specifications: →

Output Amplitude:	0 to +103V, to 50Ω
Pulse Width (FWHM):	20 - 200 ns
Rise Time (20%-80%):	≤ 700 ps
Fall Time (80%-20%):	≤ 700 ps
PRF:	1 Hz - 50 kHz
Jitter, Stability:	OK
Prime Power:	100-240V AC, 50-60 Hz.

Test Waveforms

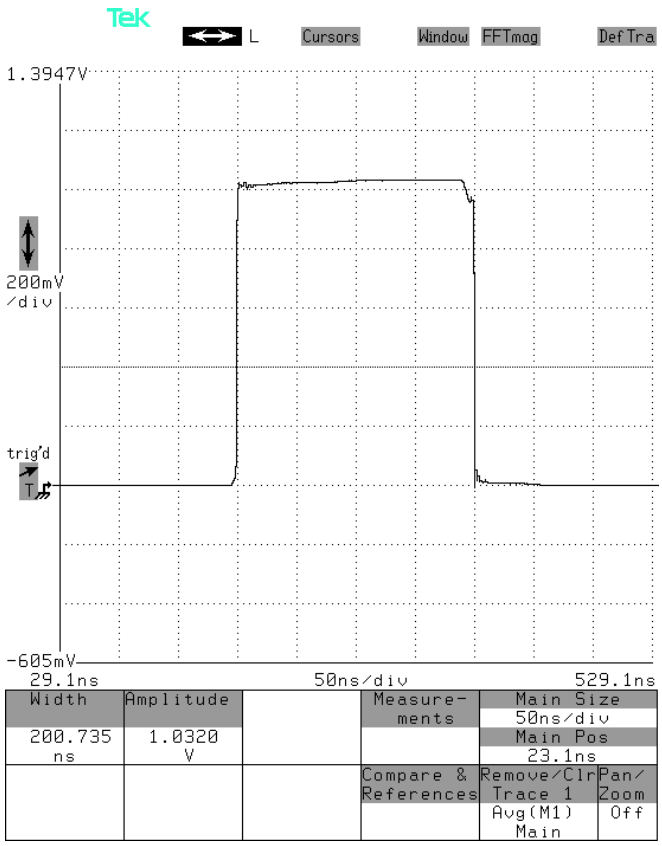
Mainframe output, +100V into 50 Ohms, 50 kHz, 20 ns pulse width,

5 ns/div. 20 V/div (200 mV × 40 dB):



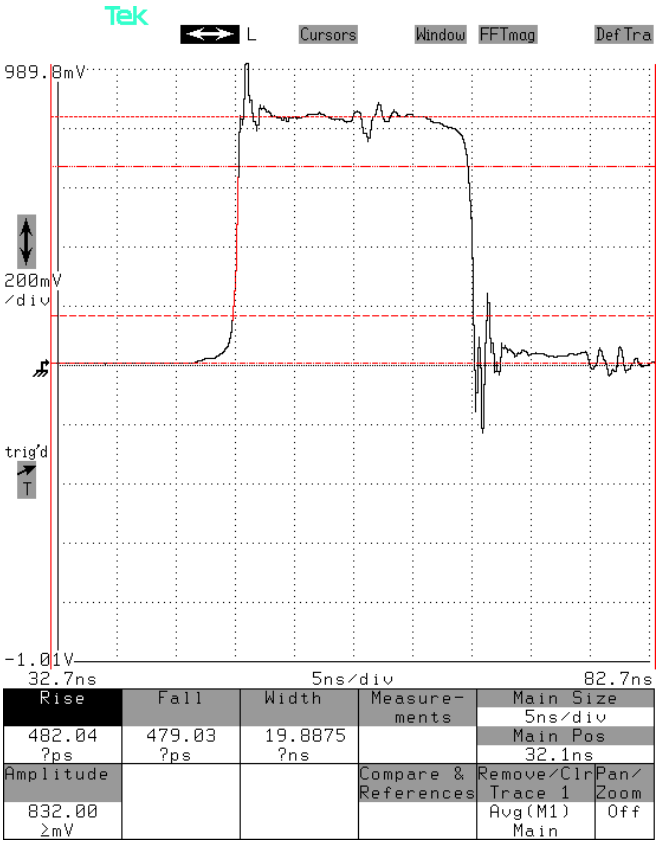
Mainframe output, +100V into 50 Ohms, 50 kHz, 200 ns pulse width,

50 ns/div. 20 V/div (200 mV × 40 dB):



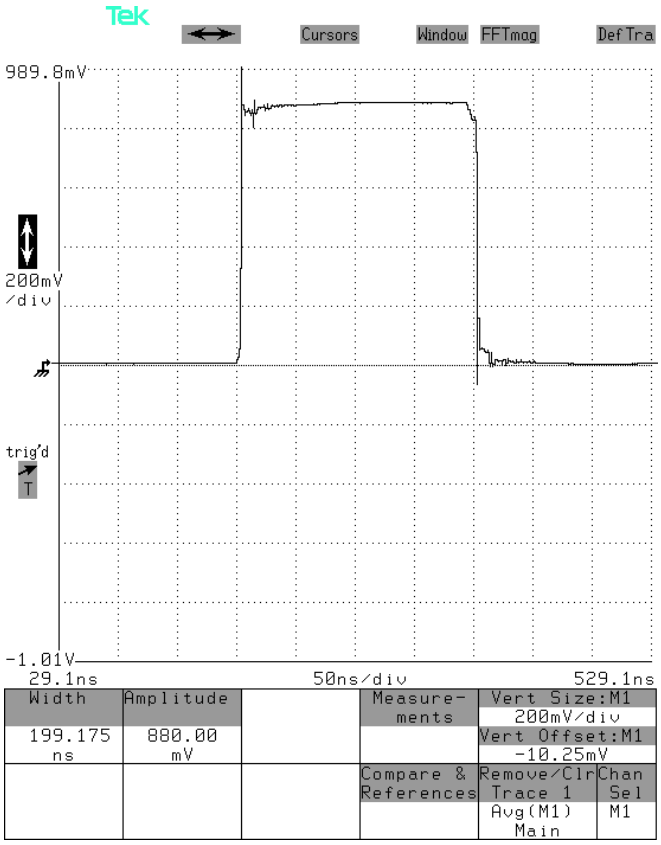
“MI” output of AVX-S2-P2-SCHA into 50 Ohms, for +100V, 50 kHz, 20 ns pulse width, with a 1N459A diode installed as the DUT:

5 ns/div. 2 V/div (200 mV × 20 dB, ≈ 0.44 A/div):



“MI” output of AVX-S2-P2-SCHA into 50 Ohms, for +100V, 50 kHz, 200 ns pulse width, with a 1N459A diode installed as the DUT:

50 ns/div. 2 V/div (200 mV × 20 dB, ≈ 0.44 A/div):



The inductance of the DUT causes the spikes on the rising and fall edges.