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-P1B-T1B-P-KMP1
Type: Ultra-High-Speed Laser Diode Driver
S.N.: 12300
Date: September 1, 2009

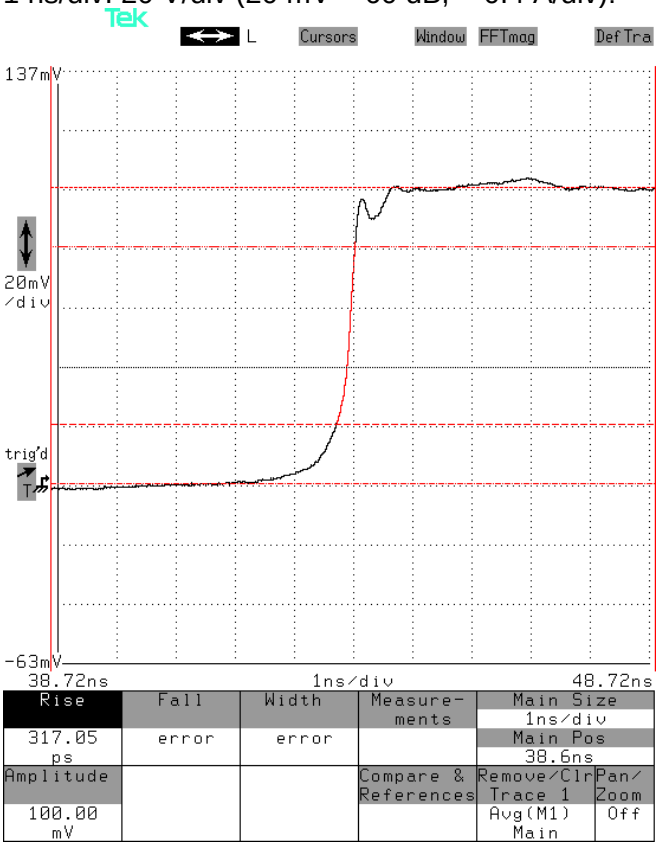
Basic specifications: →

Output Amplitude: 0 to +103V, to 50Ω
Pulse Width (FWHM): 10 – 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, +103V into 50 Ohms, 10 kHz, 200 ns pulse width, rising edge:

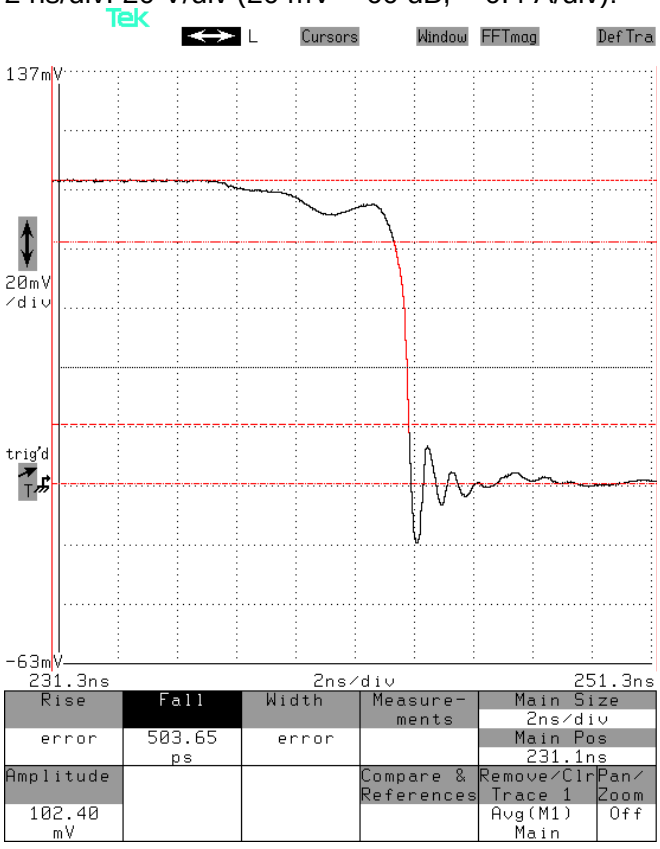
1 ns/div. 20 V/div (20 mV × 60 dB, = 0.4 A/div):



Rise	Fall	Width	Measure-ments	Main Size 1ns/div
317.05 ps	error	error		Main Pos 38.6ns
Amplitude			Compare & References	Remove/Clr Trace 1 / Pan/Zoom
100.00 mV				Avg(M1) Main / Off

Mainframe output, +103V into 50 Ohms, 10 kHz, 200 ns pulse width, falling edge:

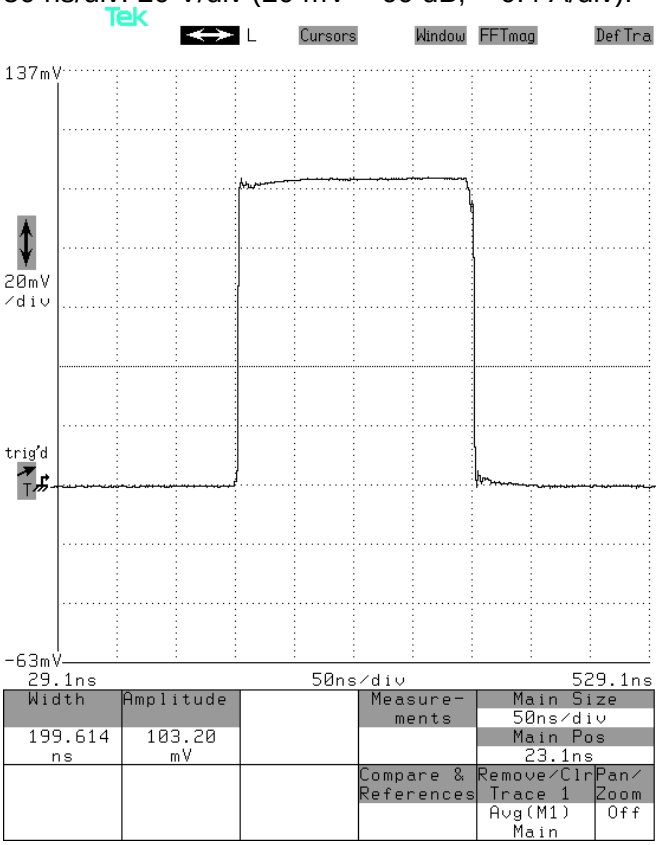
2 ns/div. 20 V/div (20 mV × 60 dB, = 0.4 A/div):



Rise	Fall	Width	Measure-ments	Main Size 2ns/div
error	503.65 ps	error		Main Pos 231.1ns
Amplitude			Compare & References	Remove/Clr Trace 1 / Pan/Zoom
102.40 mV				Avg(M1) Main / Off

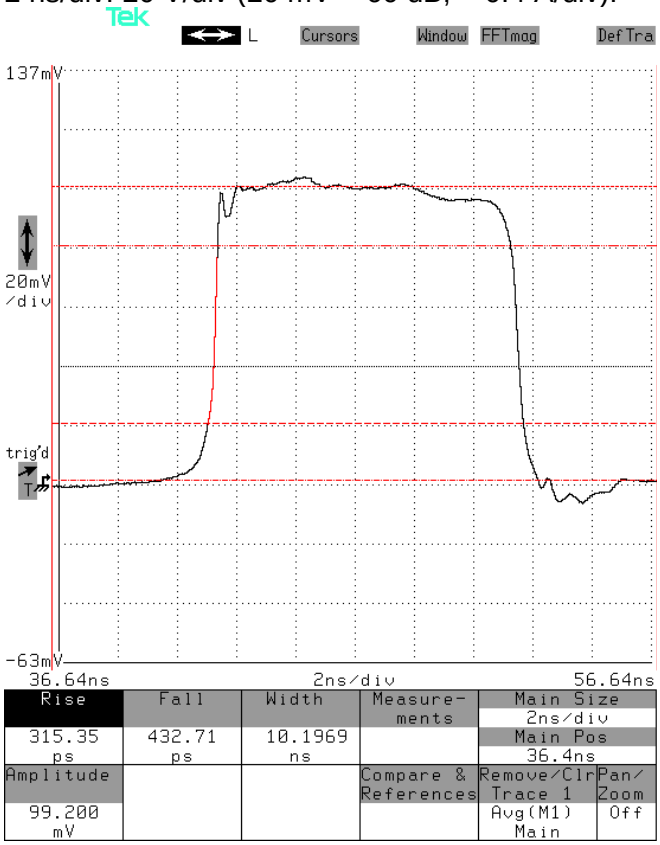
Mainframe output, +103V into 50 Ohms, 10 kHz, 200 ns pulse width, full pulse:

50 ns/div. 20 V/div (20 mV × 60 dB, = 0.4 A/div):



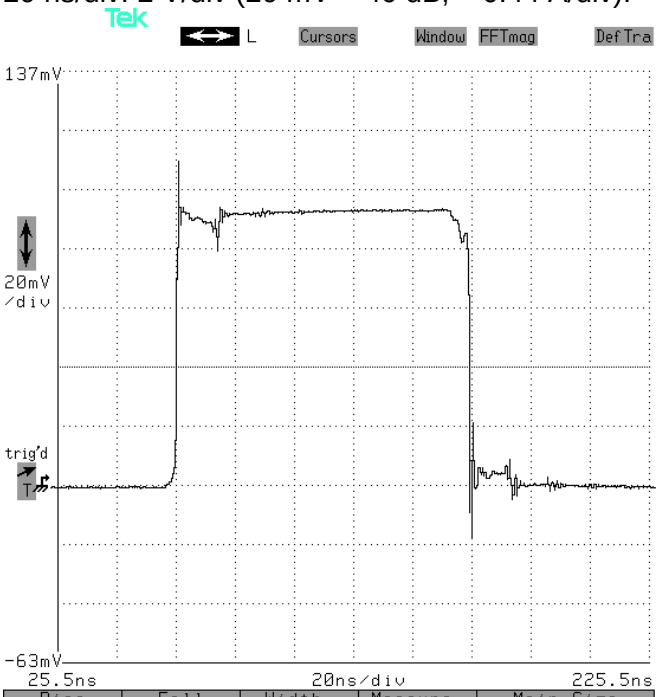
Mainframe output, +103V into 50 Ohms, 10 kHz, 10 ns pulse width, full pulse:

2 ns/div. 20 V/div (20 mV × 60 dB, = 0.4 A/div):



“MI” output of AVX-S2-T1B-P1B-KMP1 into 50 Ohms, with a 1N459 diode installed, for +100V, 10 kHz, 100 ns pulse width:

20 ns/div. 2 V/div (20 mV × 40 dB, ≈ 0.44 A/div):



Rise	Fall	Width	Measure-ments	Main Size
				20ns/div
537.60 ps	497.18 ps	99.0598 ns		Main Pos
				23.1ns
Amplitude			Compare & References	Remove/Clr Trace 1	Pan/ Zoom
92.800 mV				Avg(M1) Main	Off