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

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PERFORMANCE CHECKSHEET

Model: AVO-9H2-B-P-P1B-T1B-SPB  
Type: Ultra-High-Speed Laser Diode Driver  
S.N.: 12372  
Date: December 18, 2009

Output Amplitude: 0 to +103V, to 50Ω  
Pulse Width (FWHM): 10 – 30 ns  
Rise Time (20%-80%): ≤ 2 ns  
Fall Time (80%-20%): ≤ 2 ns  
PRF: 1 Hz - 500 kHz  
Jitter, Stability: OK  
Prime Power: 100-240V AC, 50-60 Hz.

Basic specifications: →

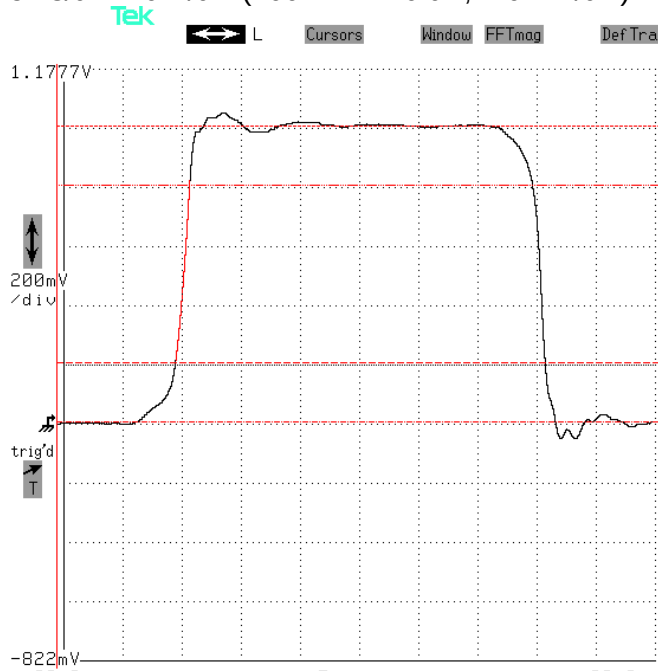
Test Waveforms

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

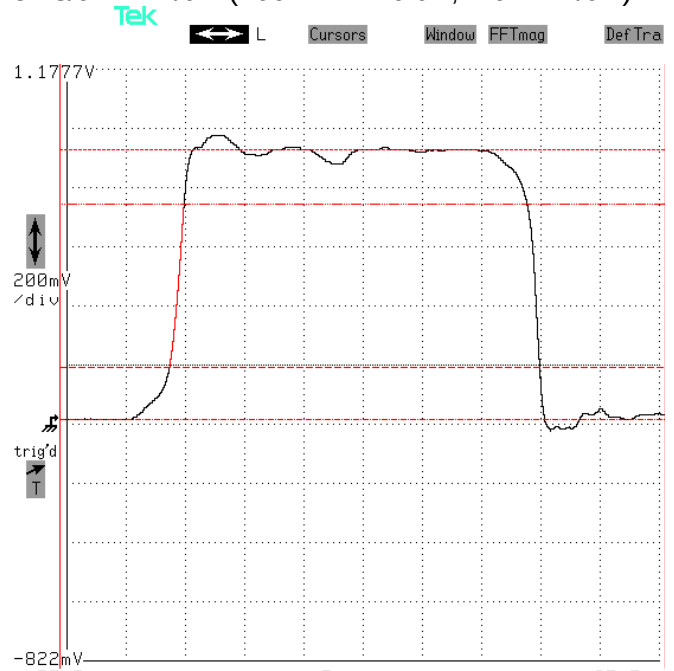
“MI” output of AVX-S2-P1B-T1B-SPB into 50  
Ohms, with a 1N6263 diode installed, for +100V,  
50 kHz, 30 ns pulse width:

5 ns/div. 20 V/div (200 mV × 40 dB, = 0.4 A/div):

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



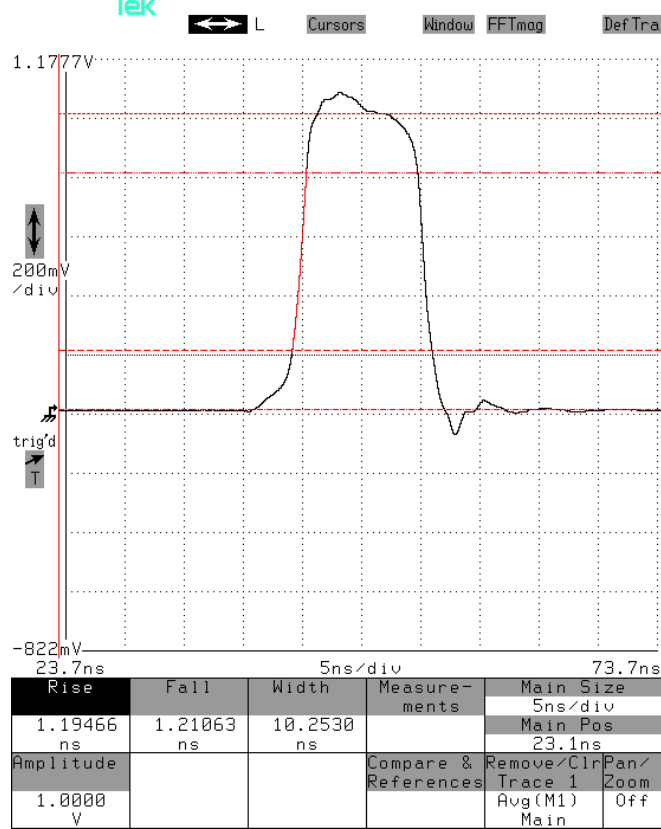
Rise	Fall	Width	Measurements	Main Size
1.21198 ns	1.06553 ns	29.9805 ns		5ns/div
				Main Pos 31.6ns
				Pan/Zoom Off
Amplitude				Compare & References
1.0000 V				Remove/Clr Trace 1 Avg(M1) Main



Rise	Fall	Width	Measurements	Main Size
1.21405 ns	1.06228 ns	29.9675 ns		5ns/div
				Main Pos 37.1ns
				Pan/Zoom Off
Amplitude				Compare & References
912.00 mV				Remove/Clr Trace 1 Avg(M1) Main

Mainframe output, +100V into 50 Ohms, 500 kHz, 10 ns pulse width:

5 ns/div. 20 V/div (200 mV × 40 dB, = 0.4 A/div):



“MI” output of AVX-S2-P1B-T1B-SPB into 50 Ohms, with a 1N6263 diode installed, for +100V, 500 kHz, 10 ns pulse width:

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

