AVTECH ELECTROSYSTEMS LTD.
NANOSECOND WAVEFORM ELECTRONICS
SINCE 1975

P.O. BOX 265
OGDENSBURG, NY
U.S.A. 13669-0265

TEL: 888-670-8729 (USA & Canada) or +1-613-686-6675 (Intl)
FAX: 800-561-1970 (USA & Canada) or +1-613-686-6679 (Intl)

info@avtechpulse.com - http://www.avtechpulse.com/

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

PERFORMANCE CHECKSHEET

Model: AVO-9A4-B-P-P1B-T1B-DP-BAS2
Type: Ultra-High-Speed Laser Diode Driver
S.N.: 12479
Date: August 11, 2010

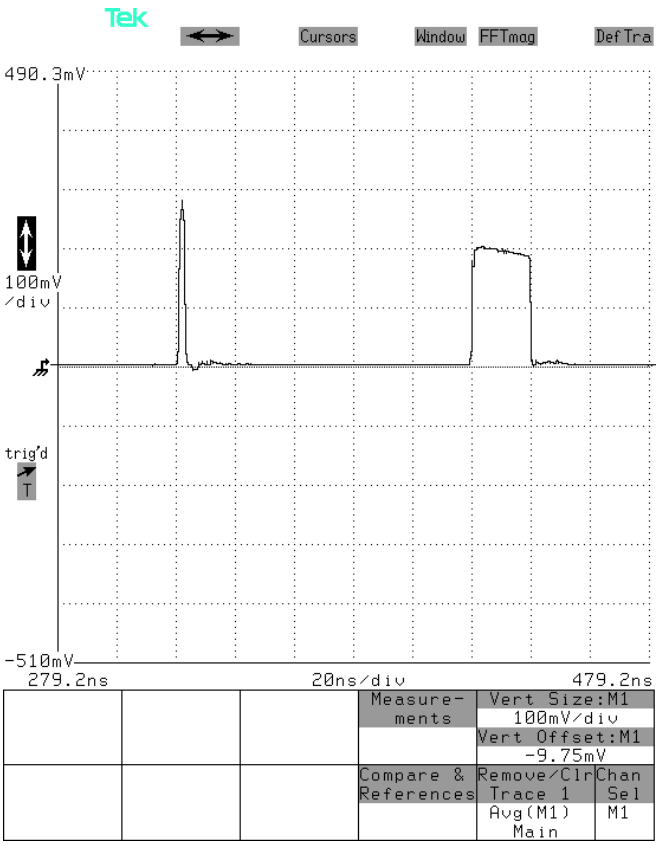
Basic specifications: →

Output Amplitude: 0 to +27V, to 50Ω
Pulse Width (FWHM): 2 - 20 ns
Rise Time (20%-80%): ≤ 250 ps
Fall Time (80%-20%): ≤ 500 ps
PRF: 1 Hz - 100 kHz
Jitter, Stability: OK
Prime Power: 100-240V AC, 50-60 Hz.

Test Waveforms

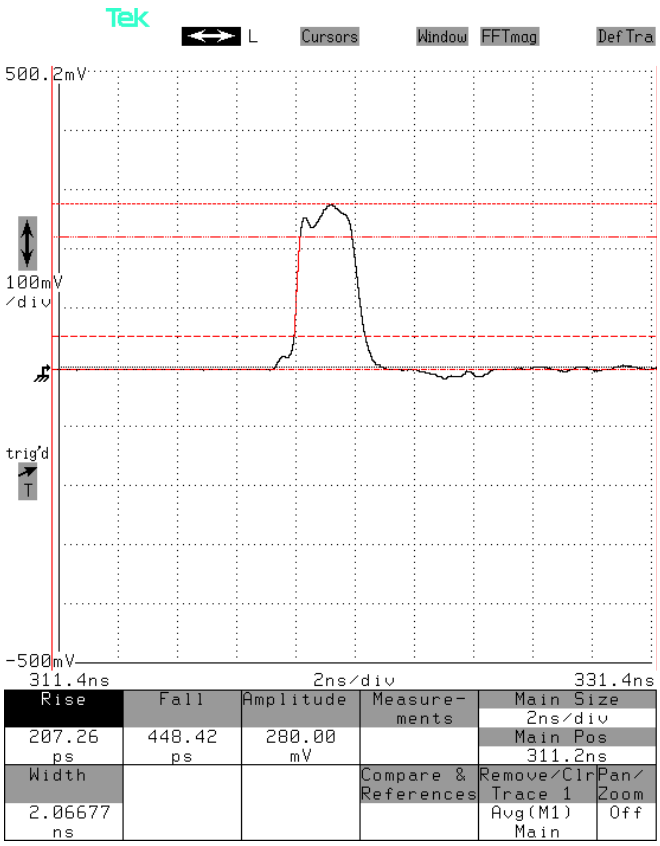
10 kHz, 2 ns / 27V and 20 ns / 20V, 100 ns delay, into a 50 Ohm load (no output module),

20 ns/div. 10 V/div (100 mV × 40 dB):



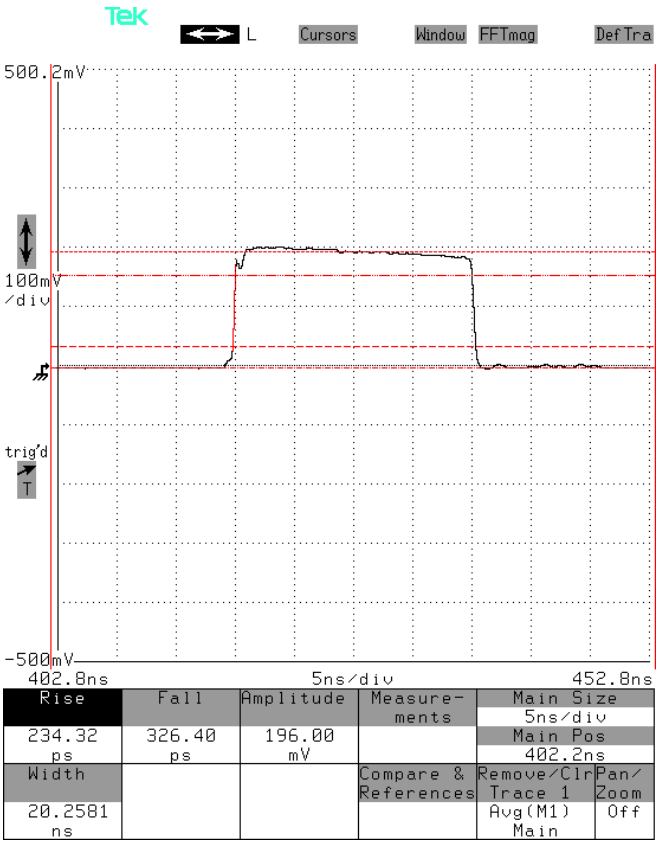
Same as first waveform, but zoomed in on the 2 ns / 27V portion of the doublet,

2 ns/div. 10 V/div (100 mV × 40 dB):



Same as first waveform, but zoomed in on the 20 ns / 20V portion of the doublet,

5 ns/div. 10 V/div (100 mV × 40 dB):



Same settings as before, but with the AVX-S1-P1B-T1B output module, with a 1N6263 test diode installed in the output sockets. MI output,

20 ns/div. 100 mV/div × 20 dB, ≈ 220 mA/div: