AVTECH ELECTROSYSTEMS LTD.
NANOSECOND WAVEFORM ELECTRONICS
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# PERFORMANCE CHECKSHEET

Model: AVO-9W-B-P-P0E
Type: Ultra-High-Speed Laser Diode Driver
S.N.: 14358
Date: July 26, 2023

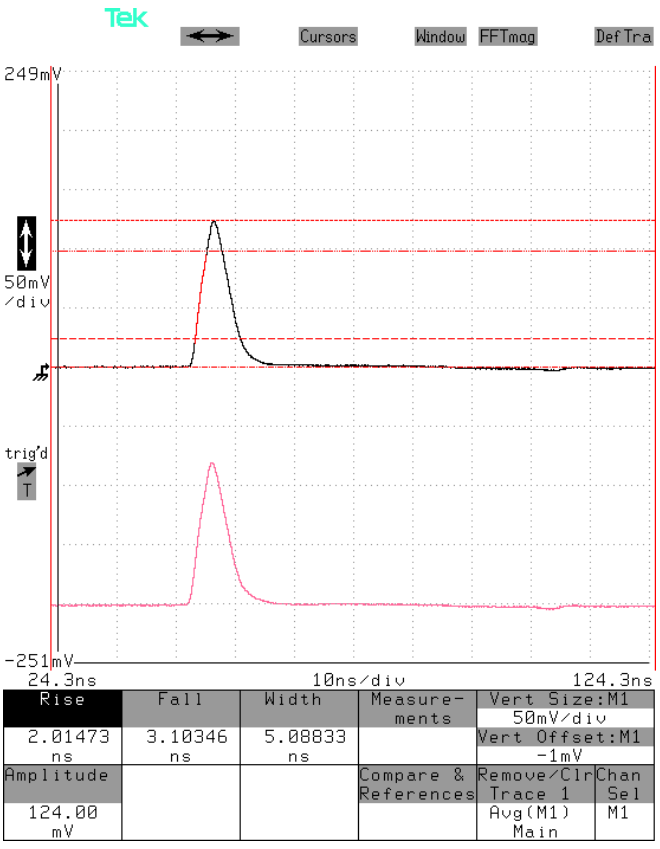
Basic specifications: →

| | |
|---|---|
| Output Amplitude: | up to +125V to 25Ω |
| Pulse Width (FWHM): | 4 - 50 ns |
| Rise Time (20%-80%): | ≤ 2.5 ns |
| Fall Time (80%-20%): | ≤ 3.5 ns |
| PRF: | 1 Hz – 20 kHz |
| Jitter, Stability: | OK |
| Prime Power: | 100-240V AC, 50-60 Hz. |

## Test Waveforms

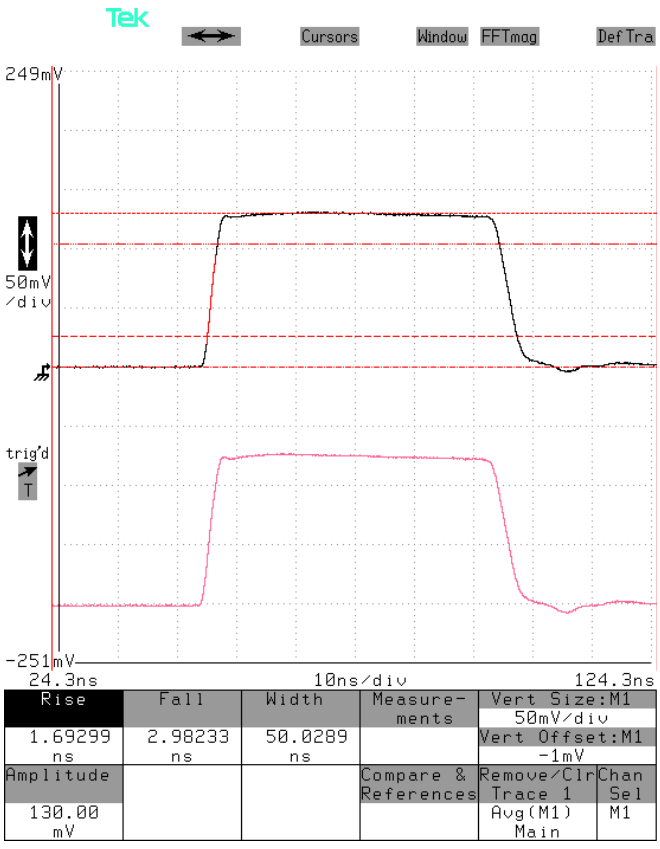
Mainframe outputs into two 50 Ohm loads at 10 kHz, 5 ns, +125V

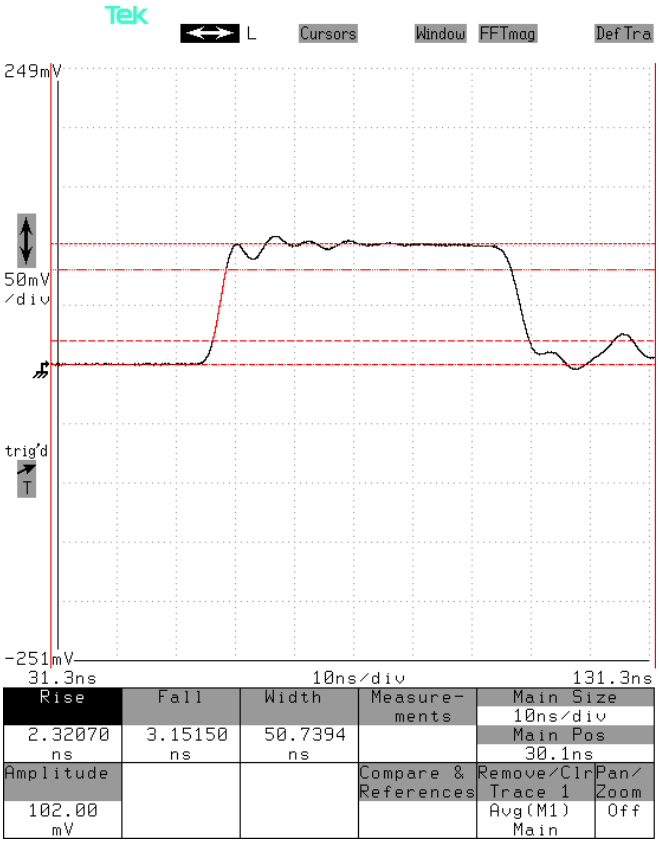
10 ns/div. 50 V/div (50 mV/div × 60 dB):




Mainframe outputs into two 50 Ohm loads at 10 kHz, 50 ns, > +125V,

10 ns/div. 50 V/div (50 mV/div × 60 dB):






+10A pulse into a 0Ω test load installed on the output module. 10 ns/div, 5 A/div.

Test method: A very short length of wire is fed through an Integrated Sensor Technologies 711S current probe, and is then inserted between the signal pin socket and a ground pin socket, as shown below. (The specified rise time of the 711S is < 1.3 ns. It will degrade the measured rise time slightly.)