



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

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

BOX 5120, LCD MERIVALE
OTTAWA, CANADA K2C3H5

PERFORMANCE CHECKSHEET

Model: AVO-9B2-B-P-TO66-NP1A-RS45-VXI-AK1-AK8-R5	Output Amplitude: up to +23V, to 50Ω
Type: Ultra-High-Speed Laser Diode Driver	Pulse Width (FWHM): 0.6 ns – 1 us
S.N.: 14028	Rise Time (20%-80%): ≤ 200 ps
Date: September 25, 2020	Fall Time (80%-20%): ≤ 200 / 500 ps
Basic specifications: →	PRF: 1 Hz – 100 kHz
	Jitter, Stability: OK
	Prime Power: 100-240V AC, 50-60 Hz.

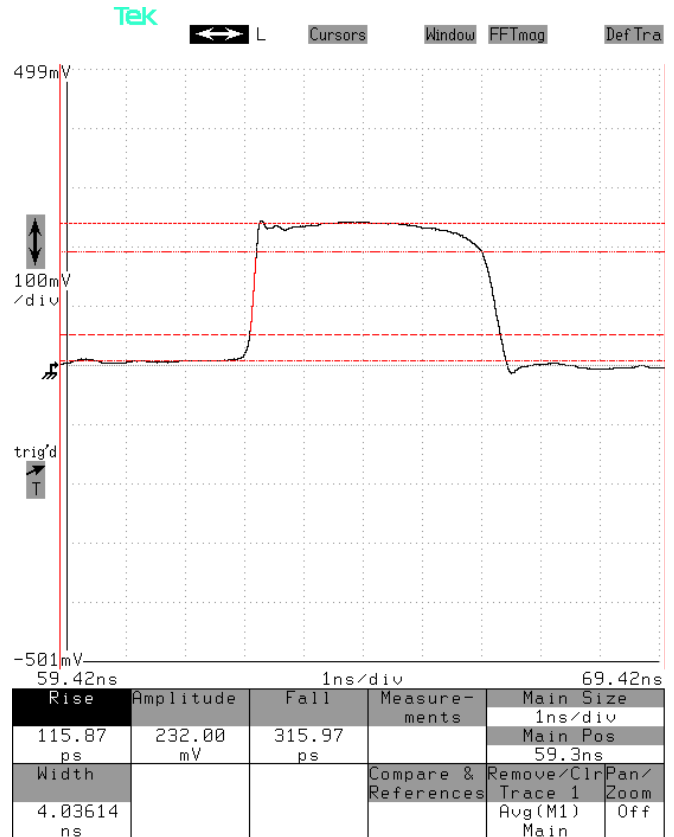
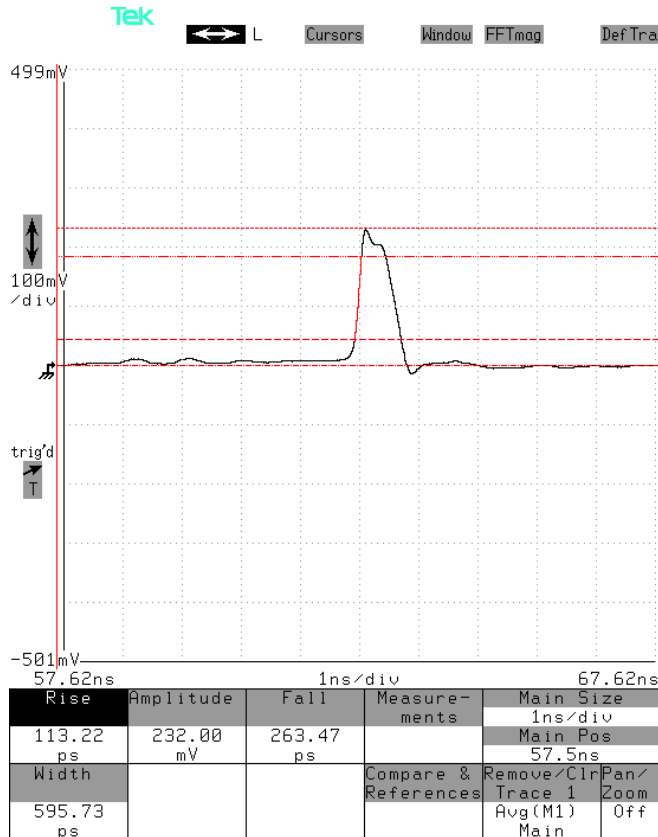
Test Waveforms

Mainframe output into 50 Ohm load at 100 kHz,
600 ps, > +20V,

1 ns/div. 10 V/div (100 mV/div × 40 dB):

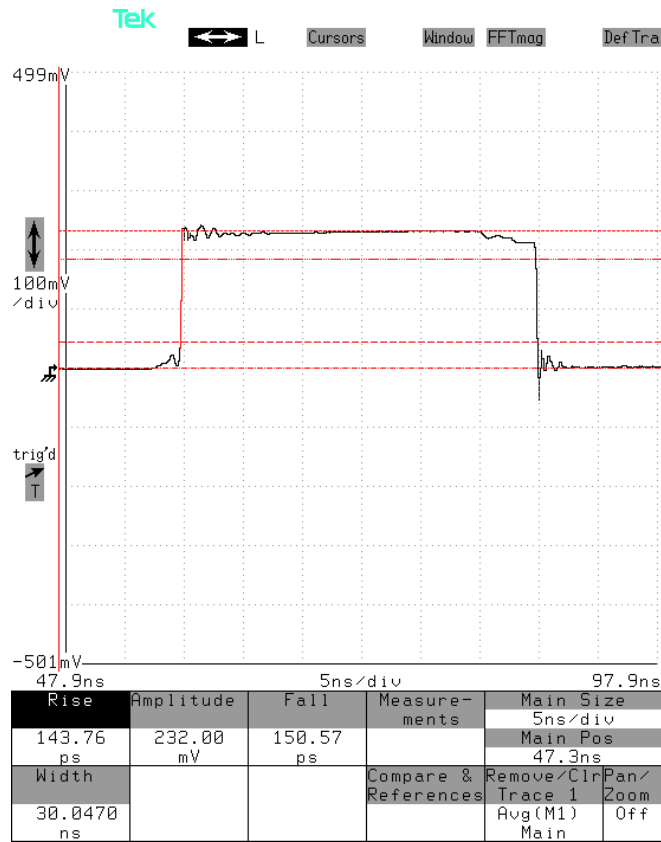
Mainframe output into 50 Ohm load at 100 kHz,
4 ns, +23V,

1 ns/div. 10 V/div (100 mV/div × 40 dB):



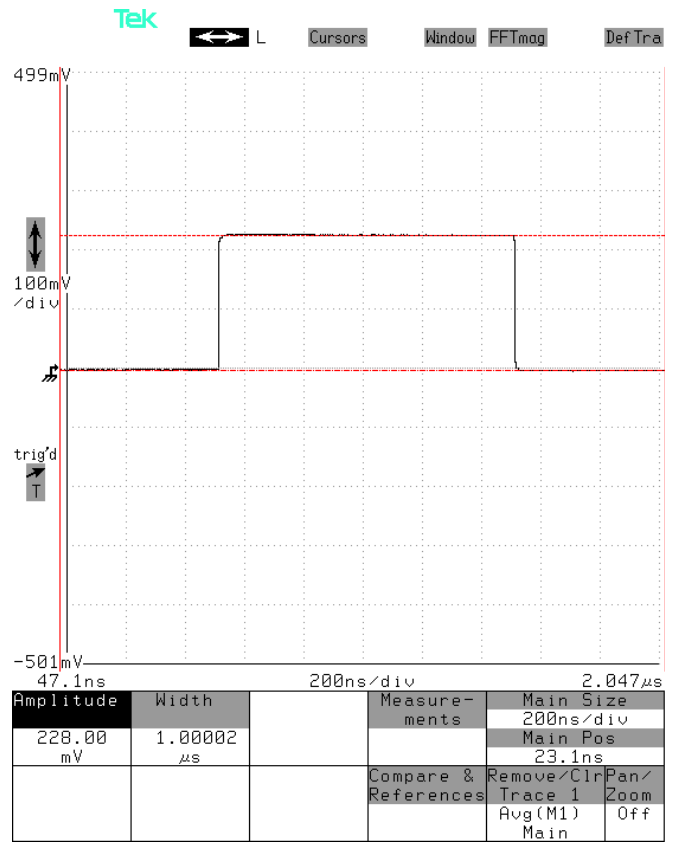
Mainframe output into 50 Ohm load at 100 kHz,
30 ns, +23V,

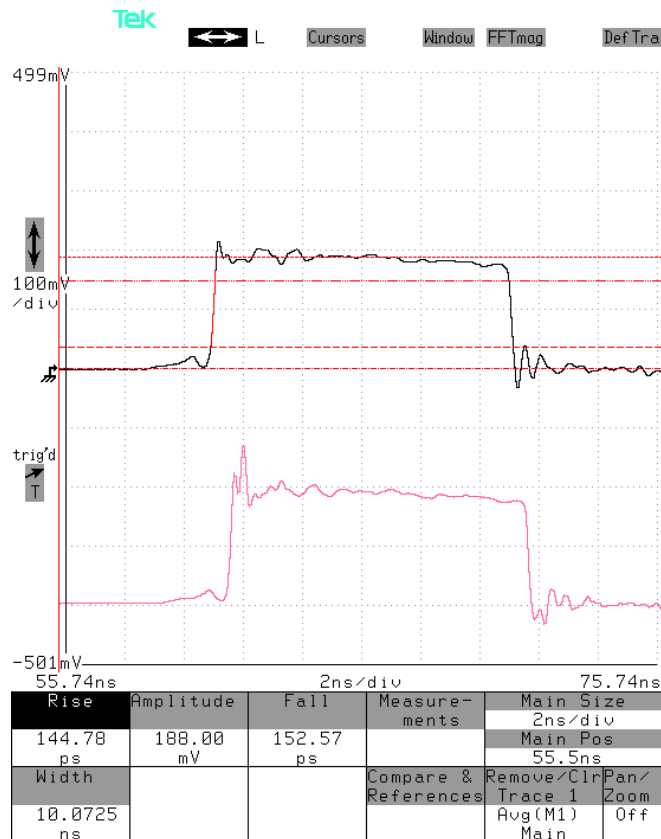
5 ns/div. 10 V/div (100 mV/div × 40 dB):



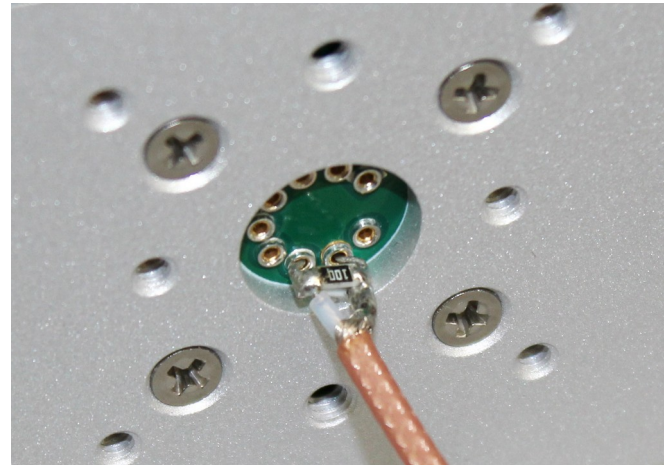
Mainframe output into 50 Ohm load at 10 kHz,
1 us, +23V,

200 ns/div. 10 V/div (100 mV/div × 40 dB):





Test method: Short leads are soldered to two 10.0Ω chip resistors in parallel. A coaxial cable is soldered across the resistors. The signal lead is inserted into the anode pin socket. The grounded lead is inserted into the cathode pin socket. The total effective resistance is $10\ \Omega \parallel 10\ \Omega \parallel 50\ \Omega$ (R_{SCOPE}) = 4.54 Ω.



Top: Voltage measured across the resistor in response to a > 400 mA pulse applied from an Avtech AVO-9B2-B-P-P1B-T1B-AK1-AK8-VXI-R5 (S/N 13726) pulse generator. It should be approximately $> 0.4A \times 4.54\Omega = 1.82V$, which agrees with the observed waveform. 1V/div (= 100 mV/div × 20 dB), 2 ns/div.

Bottom: “MI” output, 1V/div (= 100 mV/div × 20 dB), 2 ns/div.