



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)

BOX 5120, LCD MERIVALE
OTTAWA, ONTARIO
CANADA K2C 3H5

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

PERFORMANCE CHECKSHEET

Model: AVO-9B-B-P1B-T1B-P-INPHA-AK1-AK8
Type: Ultra-High-Speed Laser Diode Driver
S.N.: 13295
Date: May 29, 2015

Output Amplitude: up to +23V, to 50Ω
Pulse Width (FWHM): 8 – 100 ns
Rise Time (20%-80%): ≤ 200 ps
Fall Time (80%-20%): ≤ 200 ps
PRF: 1 Hz – 1 MHz
Jitter, Stability: OK
Prime Power: 100-240V AC, 50-60 Hz.

Basic specifications: →

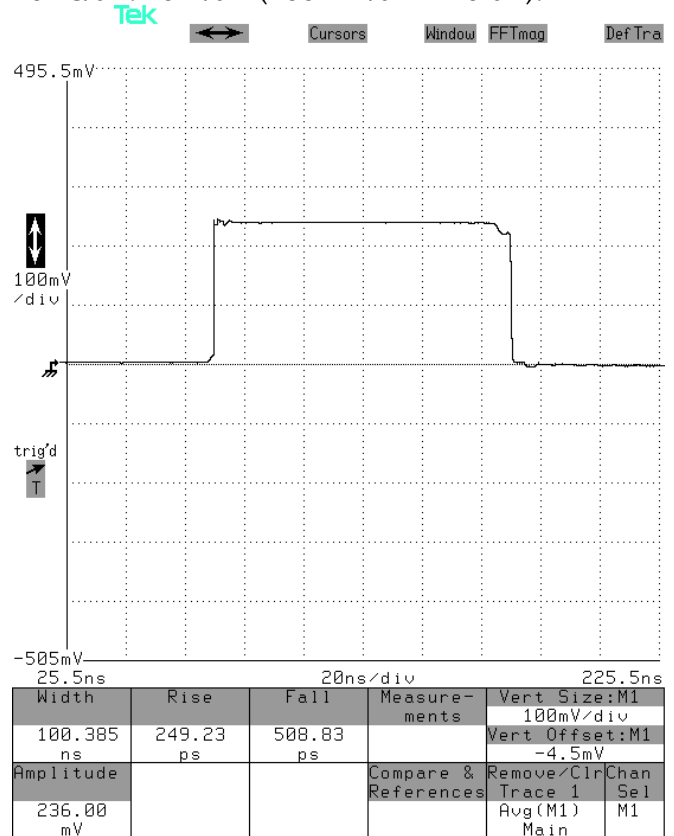
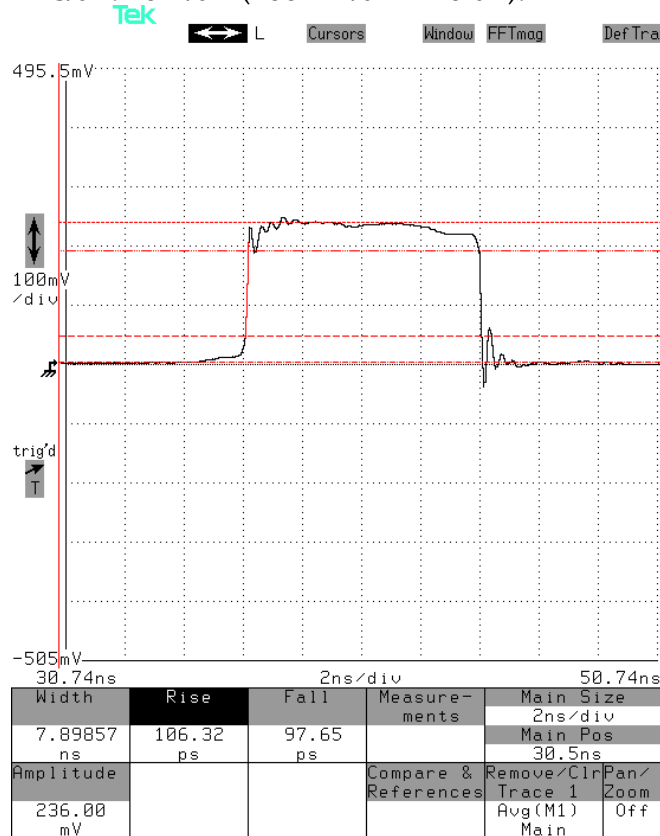
Test Waveforms

Mainframe output, > +23V into 50 Ohms, 1 MHz,
8 ns pulse width:

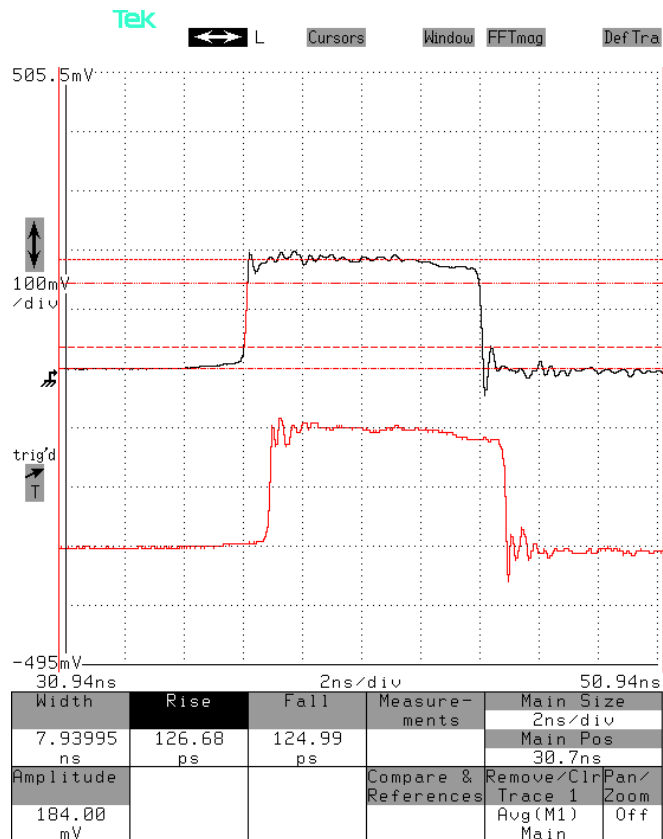
Mainframe output, > +23V into 50 Ohms, 100
kHz, 100 ns pulse width:

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

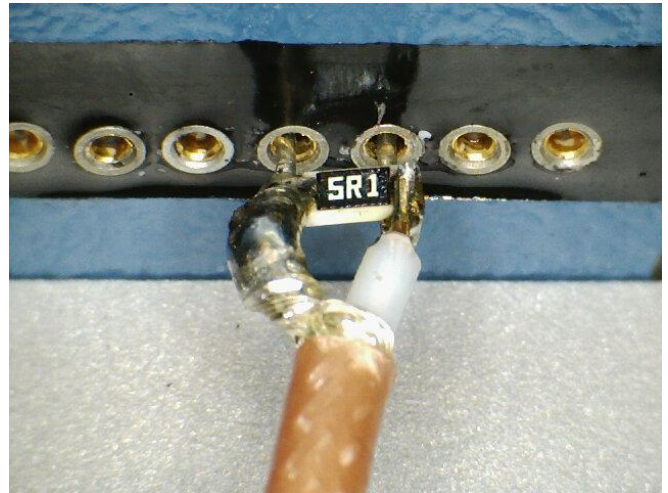
20 ns/div. 10 V/div (100 mV/div × 40 dB):



With mainframe set at +100V, 50 kHz, 50 ns pulse width:



Test method: Short leads are soldered to a 5.1Ω chip resistor. A coaxial cable is soldered across the resistor. The signal lead is inserted into the anode pin socket. The grounded lead is inserted into the cathode pin socket. The total effective resistor is $5.1 \Omega \parallel 50 \Omega (R_{SCOPE}) = 4.6 \Omega$.



Top waveform: Voltage across the parallel combination of the 4.6 Ω effective resistance. It should be approximately $(+23V / 54.6\Omega) \times 4.6\Omega = +1.9V$ in amplitude, which agrees with the observed waveform.

Bottom waveform: “MI” output, approximately $+23V / 11$.

Both: 2 ns/div, 1 V/div (100 mV/div × 20 dB).