



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-9RA-B-P-AK1-VXI-P1B-AC03-T1B  
Type: Ultra-High-Speed Laser Diode Driver  
S.N.: 13543  
Date: March 8, 2017

Output Amplitude: up to +20V, to 50Ω  
Pulse Width (FWHM): 0.5 - 4 ns  
Rise Time (20%-80%): ≤ 250 ps  
Fall Time (80%-20%): ≤ 300 ps  
PRF: 1 Hz – 10 MHz  
Jitter, Stability: OK  
Prime Power: 100-240V AC, 50-60 Hz.

Basic specifications: →

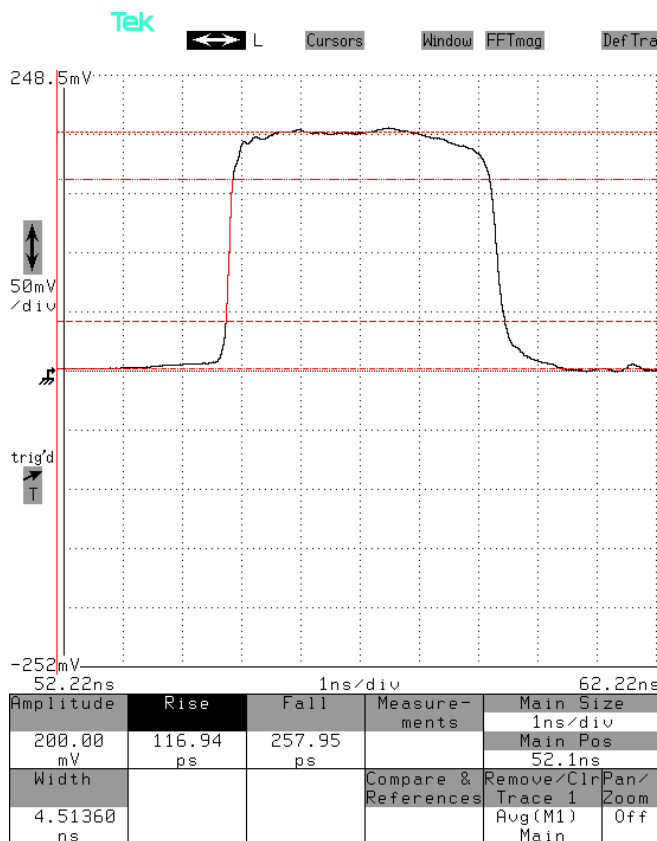
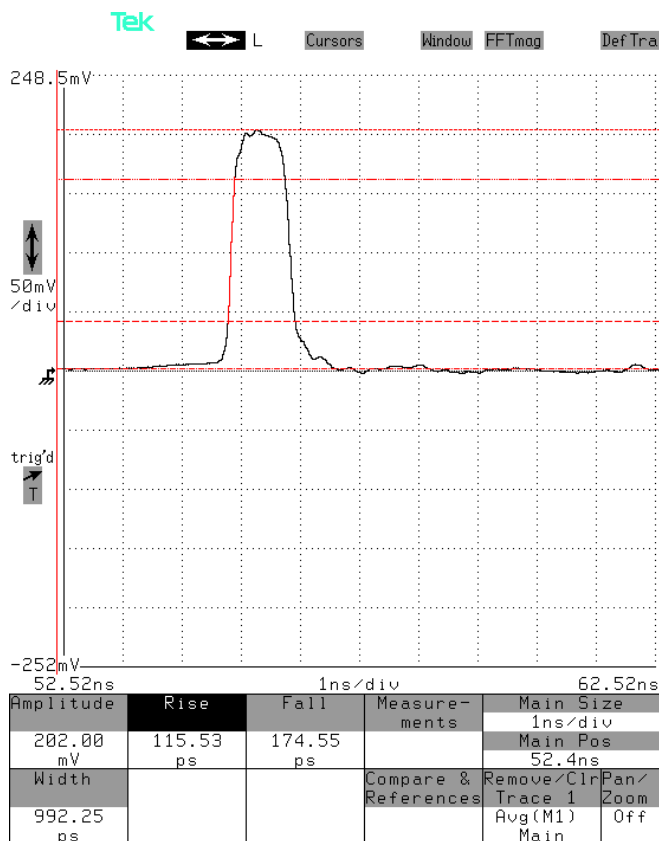
Test Waveforms

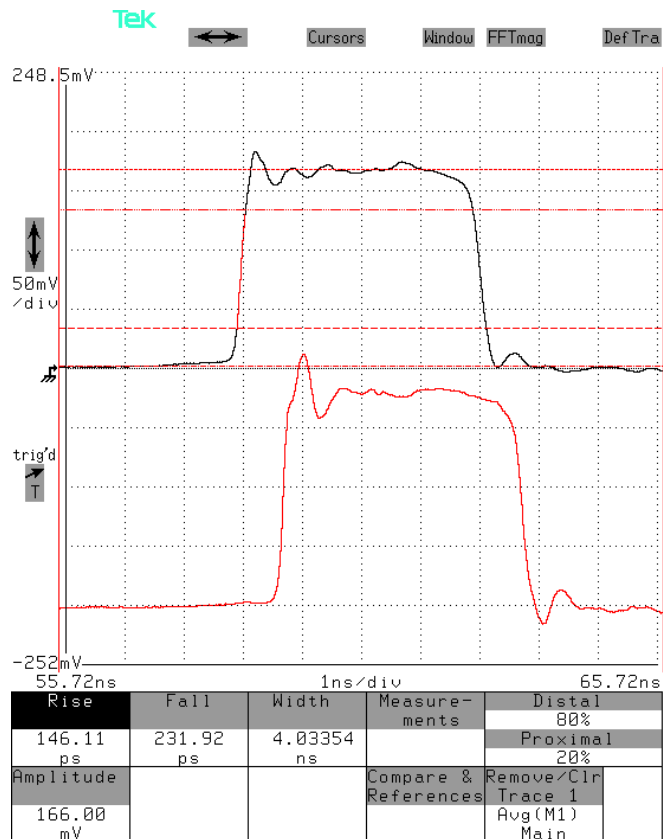
Mainframe output into 50 Ohm load at 100 kHz,  
1 ns, +20V,

1 ns/div. 5 V/div (50 mV/div × 40 dB):

Mainframe output into 50 Ohm load at 1 MHz,  
> 4 ns, +20V,

1 ns/div. 5 V/div (50 mV/div × 40 dB):





Test method: Short leads are soldered across a chip resistor. A coaxial cable is soldered across the resistor. The signal lead is inserted into the anode pin socket. The ground lead is inserted into one of the other pin sockets (which are grounded). The total effective resistor is  $5 \Omega \parallel 50 \Omega$  ( $R_{SCOPE} = 4.5 \Omega$ ).



Top waveform: Voltage across the parallel combination of the  $4.5 \Omega$  effective resistance. It should be approximately  $(+20V / 54.5\Omega) \times 4.5\Omega = +1.65V$  in amplitude, which agrees approximately with the observed waveform.

Bottom waveform: "MI" output, approximately  $+20V / 11$ .

Both: 1 ns/div, 500 mV/div (50 mV/div  $\times$  20 dB).