PERFORMANCE CHECKSHEET

Model: AVO-9A3-B-AC03-P1B-T1B-P-OFS1A
Type: Ultra-High-Speed Laser Diode Driver
S.N.: 13634
Date: November 3, 2017

Basic specifications: →

Output Amplitude: up to +43V, to 50Ω
Pulse Width (FWHM): 0.4 – 2 ns
Rise Time (20%-80%): ≤ 200 ps
Fall Time (80%-20%): ≤ 300 ps
PRF: 1 Hz – 1 MHz
Jitter, Stability: OK
Prime Power: 100-240V AC, 50-60 Hz.

Test Waveforms

Mainframe output into 50 Ohm load at 1 MHz,
600 ps, +40V,
500 ps/div. 20 V/div (200 mV/div × 40 dB):

Mainframe output into 50 Ohm load at 1 MHz,
2 ns, +40V,
1 ns/div. 20 V/div (200 mV/div × 40 dB):
Top waveform: Voltage across the parallel combination of the 4.5 Ω effective resistance. It should be approximately \((+40V / 54.5 \, \Omega) \times 4.5\,\Omega = +3.3V\) in amplitude, which agrees with the observed waveform.

Bottom waveform: “MI” output, approximately +40V / 11.

Both: 500 ps/div, 2 V/div (200 mV/div × 20 dB).