PERFORMANCE CHECKSHEET

Model: AVO-9H1-B-TO3-P-LLA
Type: Ultra-High-Speed Laser Diode Driver
S.N.: 13396
Date: February 9, 2016
Basic specifications: →

Test Waveforms

Mainframe output into 50 Ohm load at 200 kHz, 10 ns, +100V,
5 ns/div. 50 V/div (50 mV/div × 60 dB):

Mainframe output into 50 Ohm load at 20 kHz, 500 ns, +100V,
100 ns/div. 50 V/div (50 mV/div × 60 dB):
Top waveform: Voltage across the parallel combination of the 4.6 Ω effective resistance. It should be approximately \((+100\text{V} / 54.6\text{Ω}) \times 4.6\text{Ω} = +8.4\text{V}\) in amplitude, which agrees with the observed waveform.

Bottom waveform: “MI” output, approximately +100V / 11.

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

Settings: 200 kHz, +100V, 10 ns.

Same, but with PW = 100 ns.
Both: 20 ns/div, 5 V/div (50 mV/div × 40 dB).

Test method: A coaxial cable is soldered across a 5.1 Ω resistor. The signal lead is inserted into one of the anode pin sockets. The ground lead is screwed to the chassis ground. The total effective resistor is 5.1 Ω || 50 Ω \((R_{\text{SCOPE}}) = 4.6\text{Ω}\).