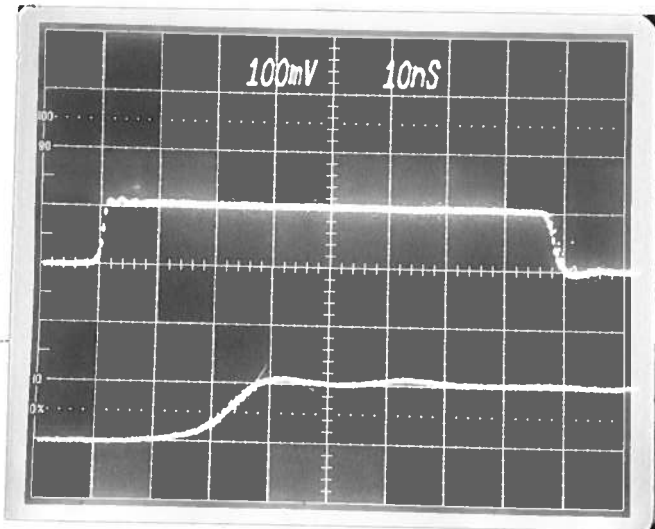


PULSE GENERATOR
PERFORMANCE CHECK

Model: *AVL-AV-1-PNB*

S.N.: *10506*

Date: *DEC 13 2002*



- a) Output signal amplitude:
0 TO ± 100 V (7050m)
- b) Pulse width:
3 TO 100 NS
- c) Rise time:
≤ 1 NS
- d) Fall time:
≤ 2 NS
- e) PRF:
0 TO 5KHz
- f) Jitter, stability:
OK
- g) Prime power:
120/200 V
50 to 60 Hz

60 dB ATTEN
100 VOLTS/DIV
TOP 10 NS/DIV
BOT 1.0 NS/DIV (RISETIME)

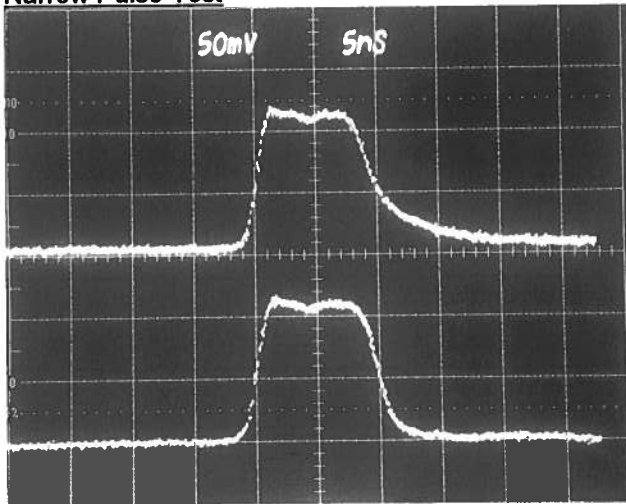
PULSE GENERATOR
PERFORMANCE CHECK

Model: AVL-AV-1-B-PN-W-KMPA

S.N.: 10506 (modification)

Date: March 19, 2003

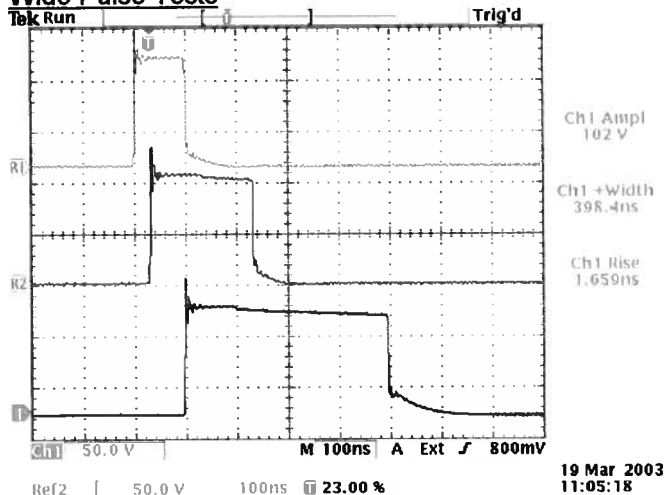
Narrow Pulse Test



Output waveforms into 60 dB of attenuation. PRF = 1 kHz
Top: Narrow pulse using 100-foot cable. 5 ns/div, 50 V/div.
Bottom: Narrow pulse using 6-inch cable. 5 ns/div, 50 V/div.

- a) Output Signal Amplitude: 0 to +/- 100V
- b) Pulse Width: 3 ns - 400 ns
- c) Rise Time: ≤ 1 ns (with 6" cable)
 ≤ 2 ns (with 100' cable)
- d) Fall Time: ≤ 2 ns (with 6" cable)
 ≤ 5 ns (with 100' cable)
- e) PRF: 1 Hz - 5 kHz
- f) Jitter, Stability: OK
- g) Prime Power: 120/240V AC, 50-60 Hz

Wide Pulse Tests



Top: 100 ns pulse.
Middle: 200 ns pulse.
Bottom: 400 ns pulse.

All: 100-foot cable used, PRF = 1 kHz, 100 ns/div, 50 V/div.
(Note: The spikes on the leading edges are due to the limited bandwidth of the oscilloscope, not the pulser.)