

## PULSE GENERATOR

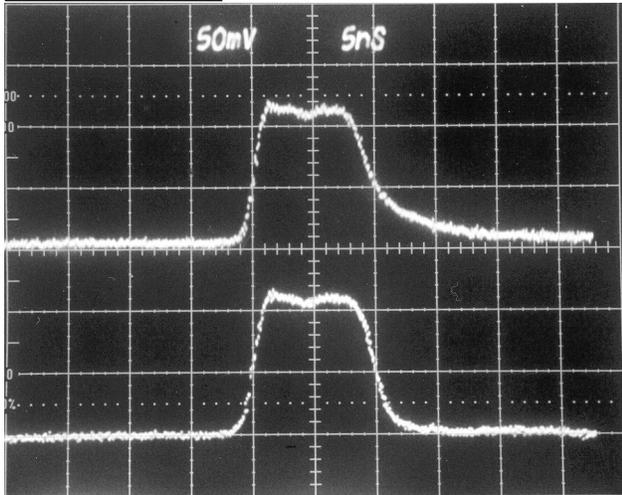
### PERFORMANCE CHECK

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:  $\leq 1$  ns (with 6" cable)  
 $\leq 2$  ns (with 100' cable)

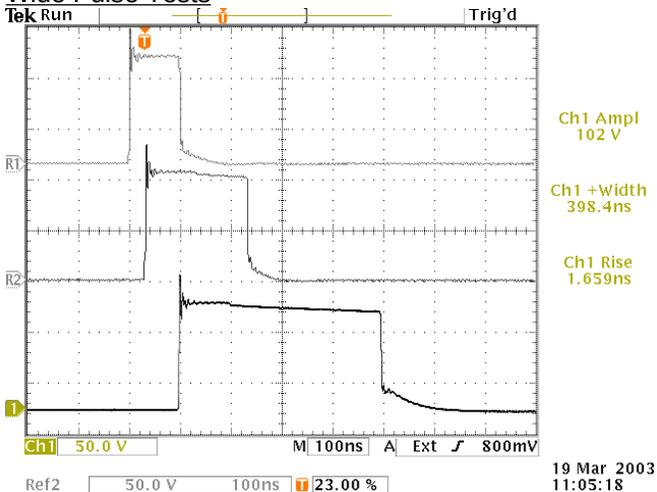
d) Fall Time:  $\leq 2$  ns (with 6" cable)  
 $\leq 5$  ns (with 100' cable)

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.)