

PULSE GENERATOR
PERFORMANCE CHECK

Model: *AV02-A1A-B-N*

S.N.: *9343*

Date: *JUNE 19 2000*

- a) Output signal amplitude: *0 TO -20 V TO*
- b) Pulse width: *< 10 ns*
- c) Rise time: *15 TO 150 NS*
(2% MAX DUTY CYCLE)
- d) Fall time: *< 10 NS*
- e) PRF: *0 TO 1 MHz*
(2% MAX DUTY CYCLE)
- f) Jitter, stability: *OK*
- g) Prime power: *120/240V*
50-60 Hz

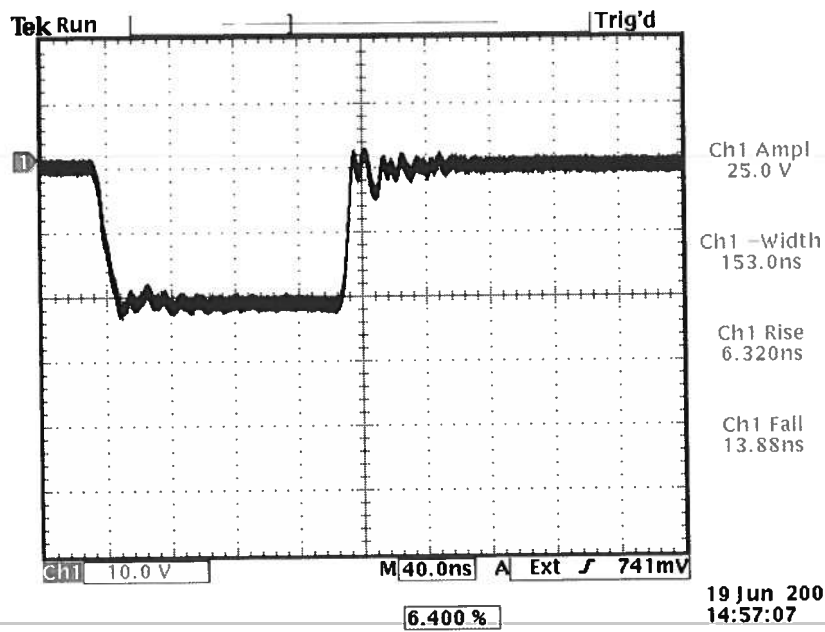


9343

$$R_c = 1.57 \Omega$$

$$I_p = 13.4 \text{ Amp}$$

$$PRF \approx 100 \text{ kHz}$$

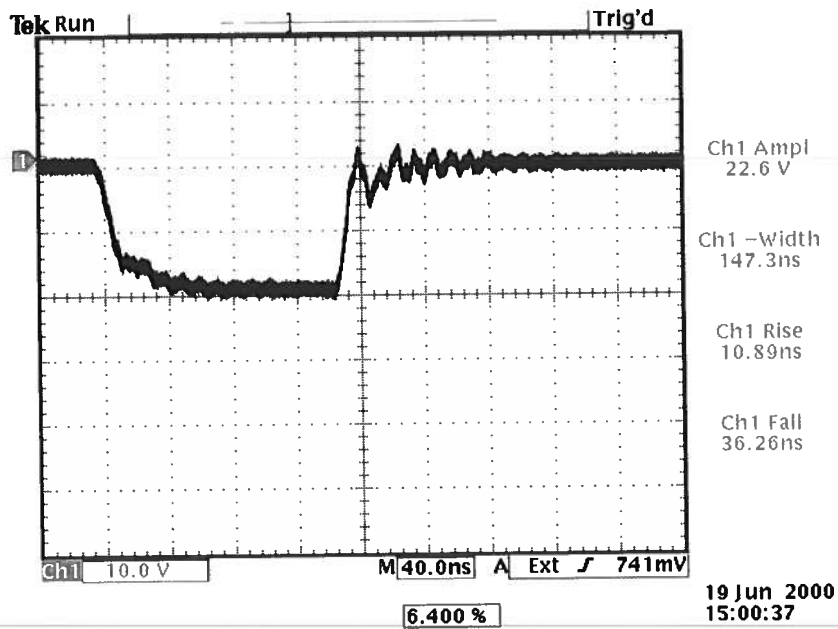


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$$R_c \approx 0.94 \Omega$$

$$I_p \approx 21.3 \text{ Amp}$$

$$\text{PRF} \approx 100 \text{ KHz}$$

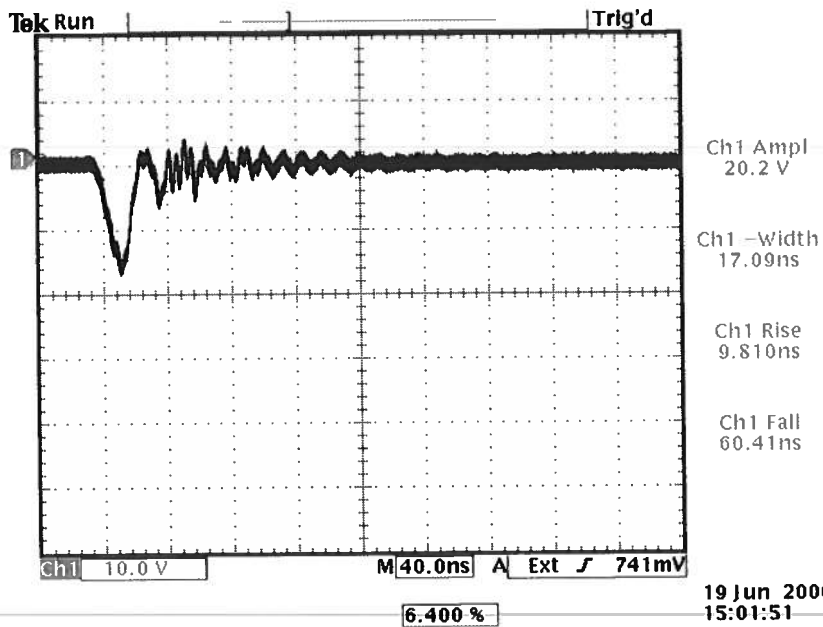


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$$R_L = 0.94 \Omega$$

$$I_p \approx 20 \text{ AMP}$$

$$PRF = 340 \text{ KHz.}$$





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"-B" Functional Test & Calibration Certificate

Date of test:	June 19, 2000				Tester:	MJC
Programmed model name:	AVOZ-A1A-B-N					
Programmed serial number:	9343					
Firmware revision:	2.14					
Internal trigger checked at:	1 Hz	100 Hz	10 kHz	1 MHz		
Actual measured output ¹ :	0.998 Hz	99.7 Hz	9.99 kHz	0.999 MHz		
External trigger checked:	yes			Gate checked:	yes	
Trigger load resistor present:	yes					
Manual trigger checked:	yes					
Pulse compression checked:	yes					
Pulse width checked at:	15 ns	50 ns	150 ns		1 kHz, -20V, into 1 Ohm	
Actual measured output ² :	14.8 ns	49.4 ns	150.7 ns			
PW _{in} = PW _{out} mode checked:	N/A			DC mode checked:	N/A	
Duty Cycle Limit:	2%					
Delay nulled:	yes					
Delay checked at:	1 us				1 kHz, -20V, into 1 Ohm	
Actual measured output ¹ :	1.007 us					
Double pulse checked:	N/A					
Invert mode checked:	N/A					
ECL/TTL modes checked:	N/A					
Zout switch checked:	N/A					
Amplitude checked at:	-5V	-10V	-20V		1 kHz, 150 ns, into 1 Ohm	
Actual measured output ² :	-4.96 V	-10.0V	-20.0V			
Amplitude polarity:	-					
Zout calibration:	N/A					
Electronic amplitude control:	N/A					
External amplify mode:	N/A					
Ultravolt flux removed:	N/A					
Monitor V/I Ratio:	N/A			Monitor offset nulled:		
LCD Monitor calibrated:	N/A			Monitor offset nulled:		
Mon. Single Pulse/Min PW OK:	N/A			SHA Cap:		
Offset checked at:	N/A					
Actual measured output ² :	N/A					
Offset nulled (output on):	N/A			Amplitude-dependent offset nulled:		
Offset nulled (output off):	N/A					
RS-232 checked:	yes					
Sync pulse width checked:	200 ns					
Circuit Boards:	PS:	93	Main:	108		
Overload Trigger Resistance:	Trips at:	N/A	Installed:	13k		
DC fuses:	Positive:	0.5A	Negative:	0.5A		
AC Current at 115 VAC:	Quiescent:	0.45A	Max. Load:	0.52A		
AC fuse:	1A					
Photographed:	yes					

¹ Checked with: HP5370A Universal Time Interval Counter

² Checked with: Tektronix TDS360 digital oscilloscope for PW ≥ 5 ns,
Tektronix 7704A/7S11/7T11/S4 sampling oscilloscope system for PW < 5 ns.