

PULSE GENERATOR
PERFORMANCE CHECK

Model: *AVR-7B-B-P-UCSBA*

S.N.: *9599*

Date: *DEC 1 2000*

- a) Output signal amplitude:
0 TO +700 VOLTS
- b) Pulse width: ($R_L \geq 10 \Omega$)
0.2 TO 10 μ S
- c) Rise time: (0.1% MAX DUTY CYCLE)
 ≤ 100 NS
- d) Fall time:
 ≤ 100 NS
- e) PRF:
0 TO 1 KHz
- f) Jitter, stability:
*(0.1% MAX DUTY CYCLE)
OK*
- g) Prime power:
*120 / 240 V
50 - 60 Hz*



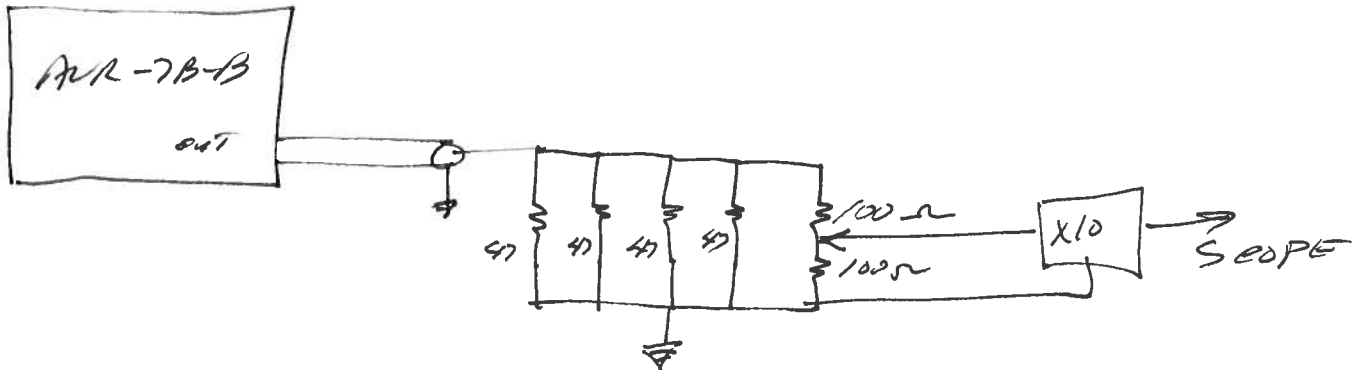
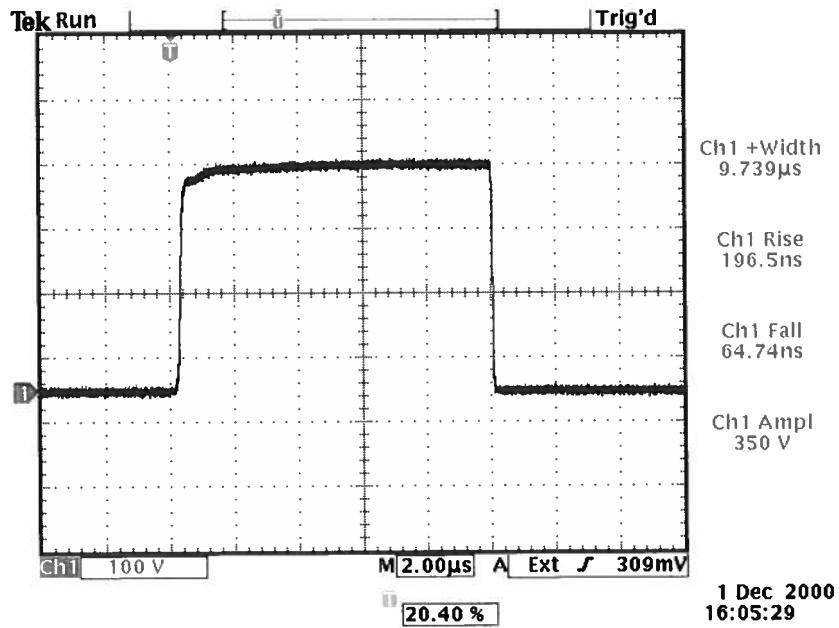
(A)

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~~mm~~ pwn

$R_c \approx 10 \Omega$

PRF = 10 kHz

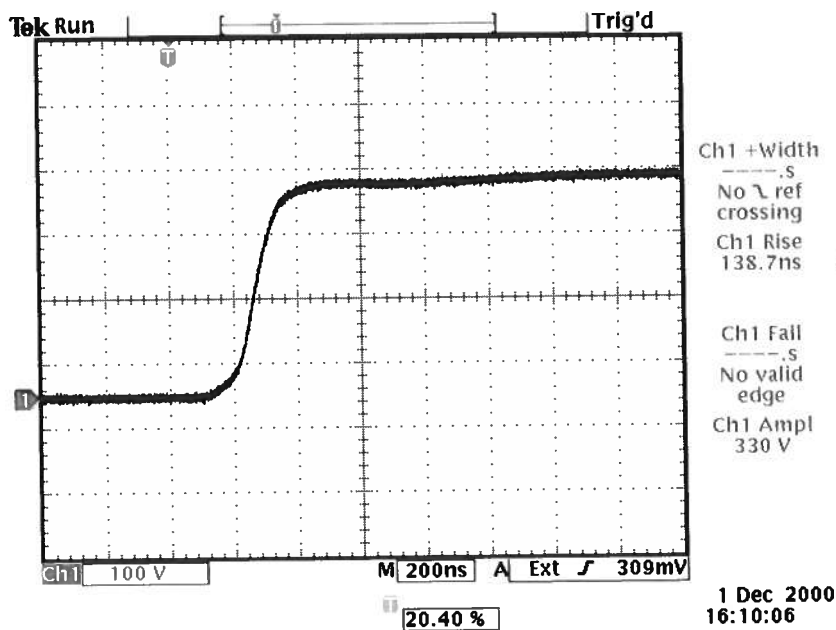


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AS ④ BUT

200 NS/DIV

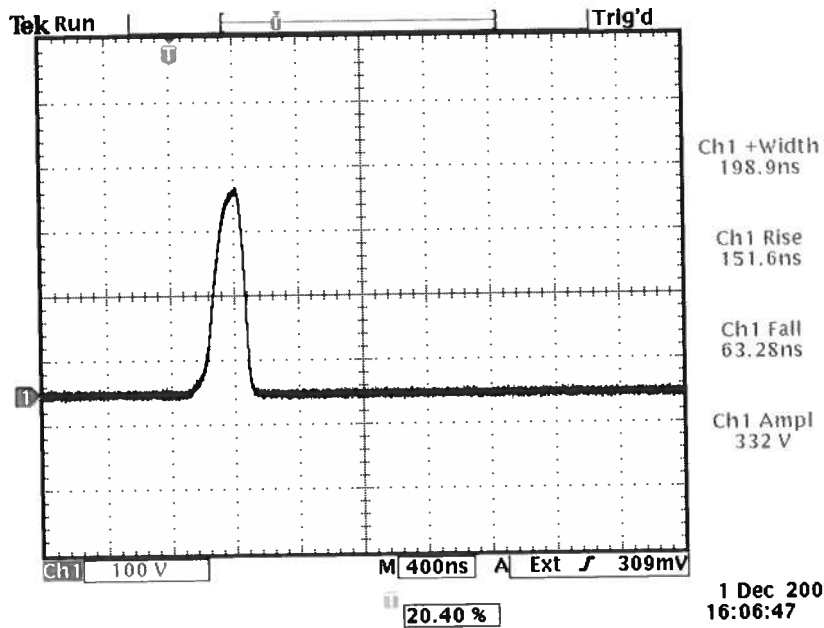


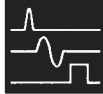
(20-80
= 100 NS)

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PW MIN.



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"-B" Functional Test & Calibration Certificate

Date of test:	December 1, 2000				Tester:	MJC
Programmed model name:	AVR-7B-B-UCSBA-P-R5					
Programmed serial number:	9599					
Firmware revision:	2.22					
Internal trigger checked at:	1 Hz	10 Hz	100 Hz	1 kHz		
Actual measured output ¹ :	1.001 Hz	10.00 Hz	99.92 Hz	1.000 kHz		
External trigger checked:	yes			Gate checked:	yes	
Trigger load resistor present:	yes					
Manual trigger checked:	yes					
Pulse compression checked:	yes		Low Amplitude PW Distortion Nulled:		N/A	
Pulse width checked at:	200 ns	2 us	5 us	10 us	1 Hz, +700V into 10 Ohms	
Actual measured output ² :	199 ns	2.01 us	5.06 us	10.05 us		
PW _{in} = PW _{out} mode checked:	yes			DC mode checked:	N/A	
Duty Cycle Limit:	0.1%					
Delay nulled:	N/A					
Delay checked at:	OK					
Actual measured output ¹ :						
Double pulse checked:	N/A					
Invert mode checked:	N/A					
ECL/TTL modes checked:	N/A					
Zout switch checked:	N/A					
Amplitude checked at:	100V	200V	500V	700V	1 Hz, 5 us, into 10 Ohms	
Actual measured output ² :	100.8V	203V	500V	698V		
Amplitude polarity:	+					
Zout calibration:	N/A					
Electronic amplitude control:	N/A					
External amplify mode:	N/A					
Ultraviolet 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:	3k 4.7k		
DC fuses:	Positive:	3A	Negative:	N/A		
AC Current at 115 VAC:	Quiescent:	0.37A	Max. Load:	N/A		
AC fuse:	1.5A					
Photographed:	yes					

¹ Checked with: Fluke PM6681 Counter, referenced to Datum ExacTime 9390-6000 GPS Frequency Reference

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