

PULSE GENERATOR
PERFORMANCE CHECK

Model: *AVR4-3-PN-B-R5*

S.N.: *9696*

Date: *MAR 12 2001*

- a) Output signal amplitude:
0 TO ± 3000 VOLTS TO
- b) Pulse width: *$R_r \geq 10K$*
200 NS TO 2.5 μ s
- c) Rise time:
 ≤ 100 ns
- d) Fall time:
 ≤ 100 ns
- e) PRF: *0 TO 1 KHZ.*
- f) Jitter, stability: *OK*
- g) Prime power:
120/240V
50-60 HZ

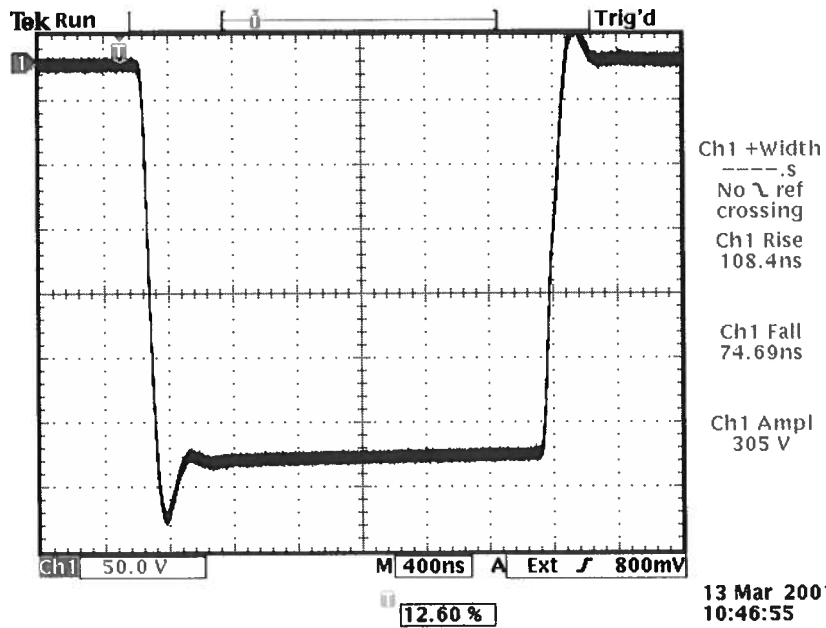
166

(B)

9696

NEB OUT

$R_L = 11K$
(AS (A)).

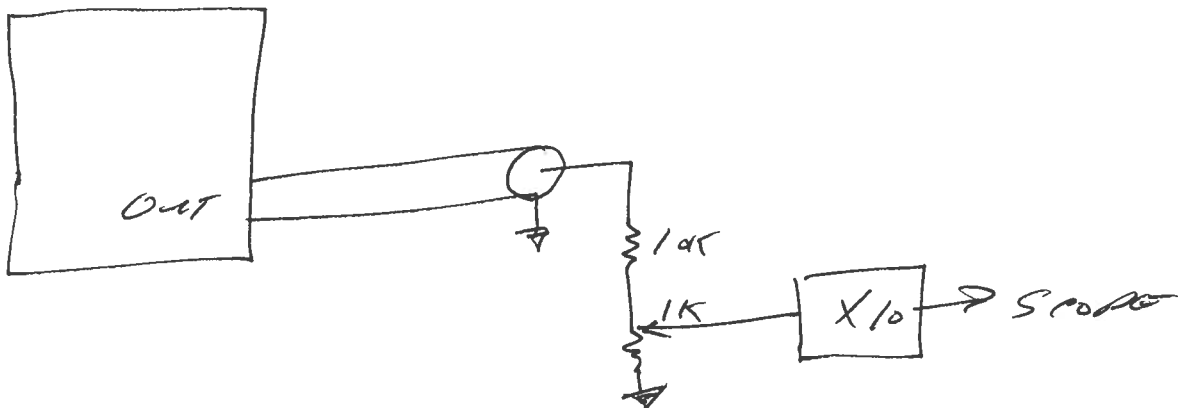
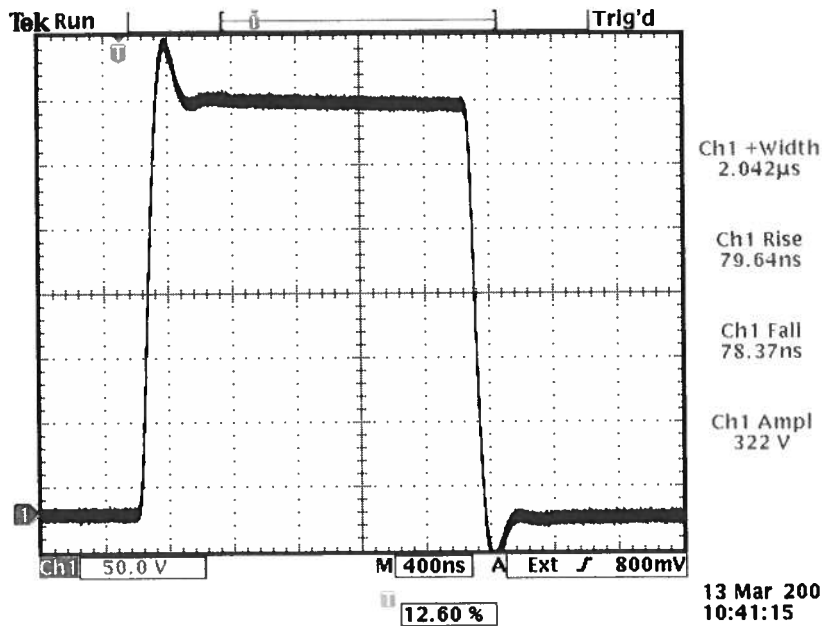


(A)

9696

POS OUT.

$R_c = 11K$





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"-B" Functional Test & Calibration Certificate

Date of test:	March 13, 2001				Tester:	MJC
Programmed model name:	AVRH-3-B-PN-R5					
Programmed serial number:	9696					
Firmware revision:	2.22					
Internal trigger checked at:	1 Hz	10 Hz	100 Hz	1 kHz		
Actual measured output ¹ :	1.005 Hz	10.04 Hz	100.3 Hz	1.000 kHz		
External trigger checked:	yes			Gate checked:	yes	
Manual trigger checked:	yes					
Pulse compression checked:	yes	Low Amplitude PW Distortion Nulled:			N/A	
Pulse width checked at:	200 ns	500 ns	1 us	2.5 us	1 Hz, +3kV, to 11000 Ohms	
Actual measured output ² :	200 ns	503 ns	0.992 us	2.52 us		
PWin = PWout mode checked:	yes			DC mode checked:	N/A	
Duty Cycle Limit:	0.25%					
Delay nulled:	yes					
Delay checked at:	100 ns	500 ns	1 us	5 us	5 Hz, +3kV, to 11000 Ohms	
Actual measured output ¹ :	100.7 ns	503 ns	1.001 us	5.04 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:	-550V	+550V	-3300V	+3300V	1 Hz, 2.5us, to 11000 Ohms	
Actual measured output ² :	-548V	+546V	-3300V	+3300V		
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:		
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:	108B		
Overload Trigger Resistance:	Trips at:	N/A	Installed:	4.7k		
DC fuses:	Positive:	1A	Negative:	N/A		
AC Current at 115 VAC:	Quiescent:	0.53A	Max. Load:	0.8A, est		
AC fuse:	1A					
Photographed:	yes					

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

² Checked with: Tektronix TDS3052 digital oscilloscope for PW ≥ 5 ns,
Tektronix 7704A/7S11/7T11/S4 sampling oscilloscope system for PW < 5 ns.