

PULSE GENERATOR
PERFORMANCE CHECK

Model: *APR-2A-B P*

S.N.: *9665*

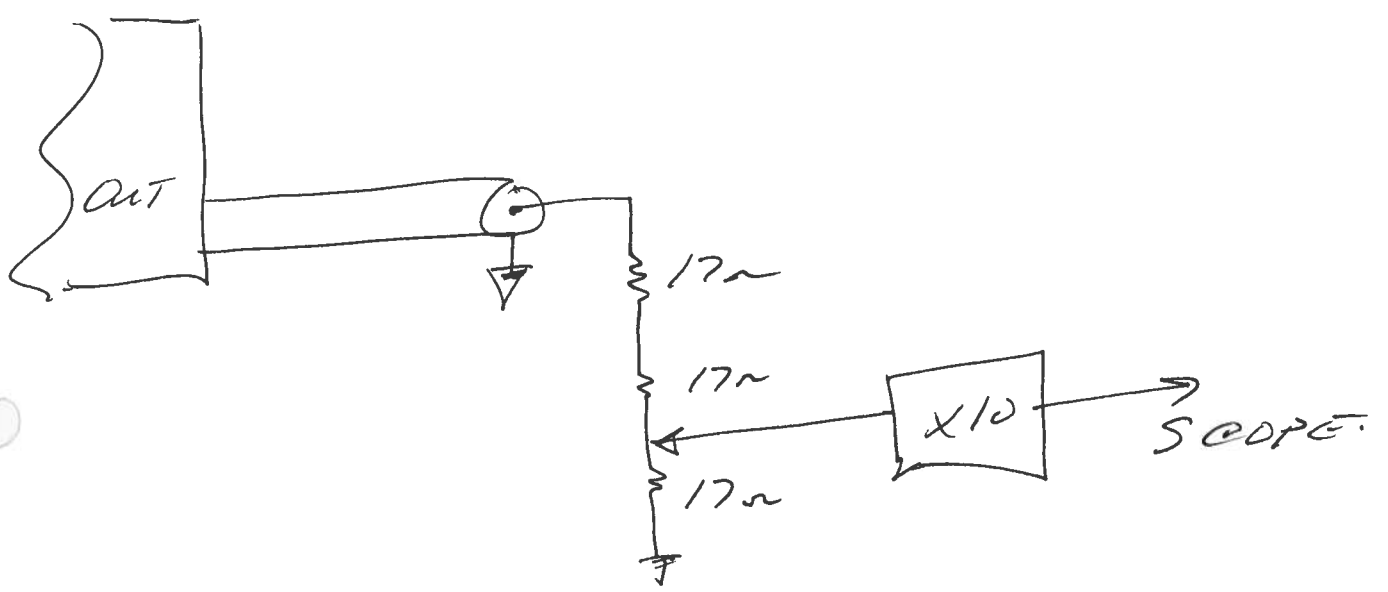
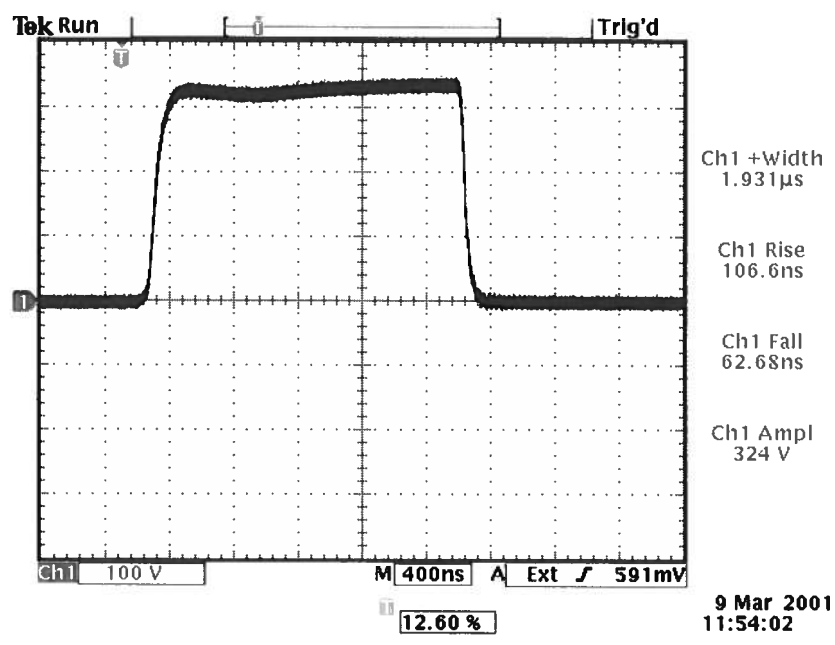
Date: *MAR 9 2001*

- a) Output signal amplitude:
0 TO +1000 V (P.P. \approx 50%)
- b) Pulse width:
200 NS TO 200 μ S
- c) Rise time:
(0.2% MAX DUTY CYCLE)
 ≤ 100 NS
- d) Fall time:
 ≤ 100 NS
- e) PRF: *0 TO 1 KHZ*
(0.2% MAX DUTY CYCLE)
- f) Jitter, stability:
OK
- g) Prime power:
120/240 V
50-60 HZ



1A

9665
NARROW PULSE
 $R_c = 50 \Omega$
PBF $\approx 1 \text{ kHz}$





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"-B" Functional Test & Calibration Certificate

Date of test:	March 9, 2001				Tester:	MJC	
Programmed model name:	AVR-8A-B-P						
Programmed serial number:	9665						
Firmware revision:	2.22						
Internal trigger checked at:	1 Hz	10 Hz	100 Hz	1 kHz			
Actual measured output ¹ :	1.006 Hz	10.06 Hz	100.4 Hz	1.002 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	2 us	20 us	200 us	1 Hz, +1kV, to 50 Ohms		
Actual measured output ² :	199.6 ns	2.00 us	20.2 us	201.7 us			
PWin = PWout mode checked:	yes	DC mode checked:				N/A	
Duty Cycle Limit:	0.2%						
Delay nulled:	yes						
Delay checked at:	200 ns	2 us	20 us	200 us	5 Hz, +1kV, to 50 Ohms		
Actual measured output ¹ :	202 ns	2.01 us	20.2 us	201.7 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:	+100V	+200V	+500V	+1000V	1 Hz, 2 us, to 50 Ohms		
Actual measured output ² :	+102V	+204V	+510V	+1020V			
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:		
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:	N/A			
Overload Trigger Resistance:	Trips at:	N/A	Installed:	N/A			
DC fuses:	Positive:	2.5A	Negative:	N/A			
AC Current at 115 VAC:	Quiescent:	0.39A	Max. Load:	1.3A, est			
AC fuse:	1.5A, for 120V						
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.