

PULSE GENERATOR
PERFORMANCE CHECK

Model: *AVR14-3-B-PN-6A*

S.N.: *10219*

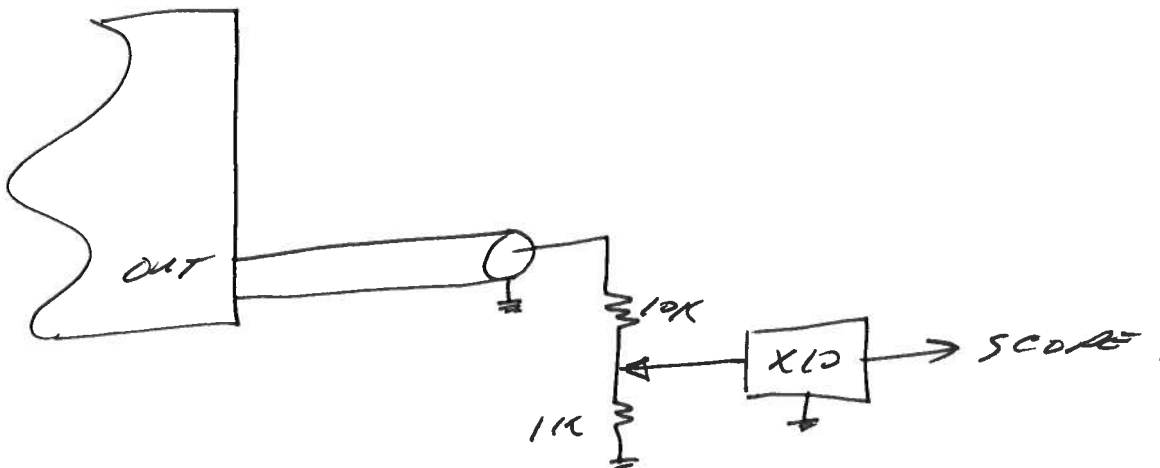
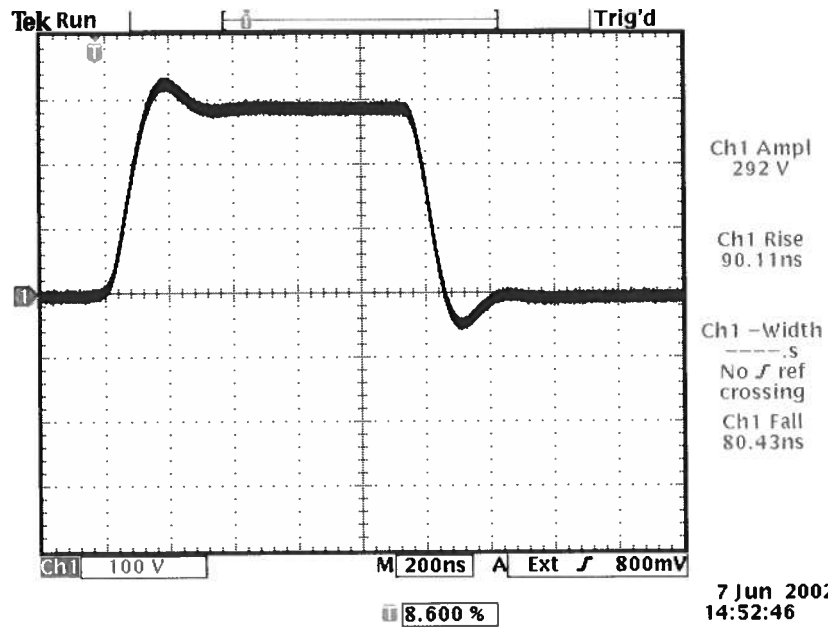
Date: *JUNE 7 2002*

- a) Output signal amplitude:
0 to ± 3000 V ($R_L \geq 10K$)
- b) Pulse width:
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:
120/240 V
50-60 Hz.



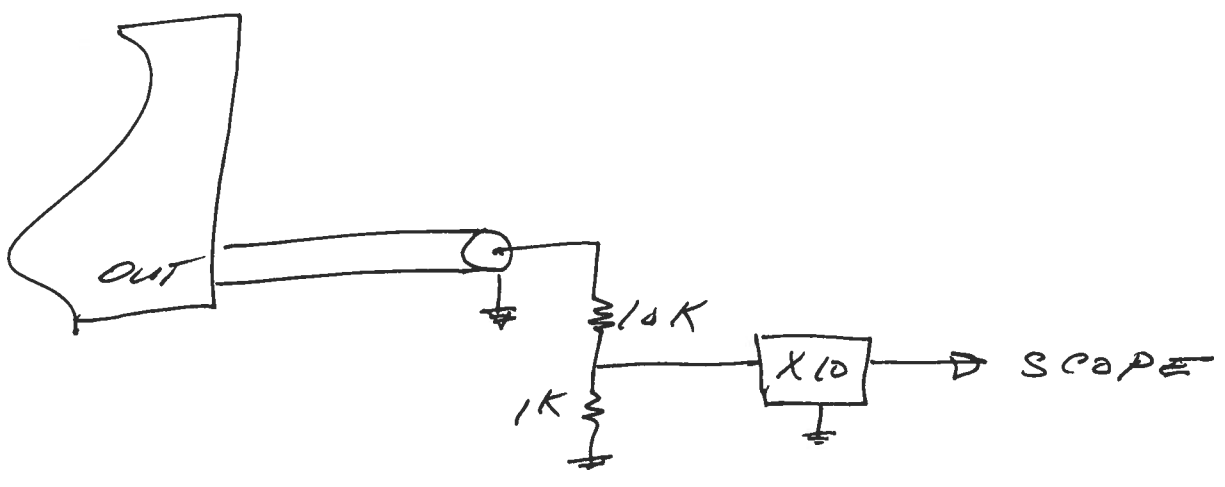
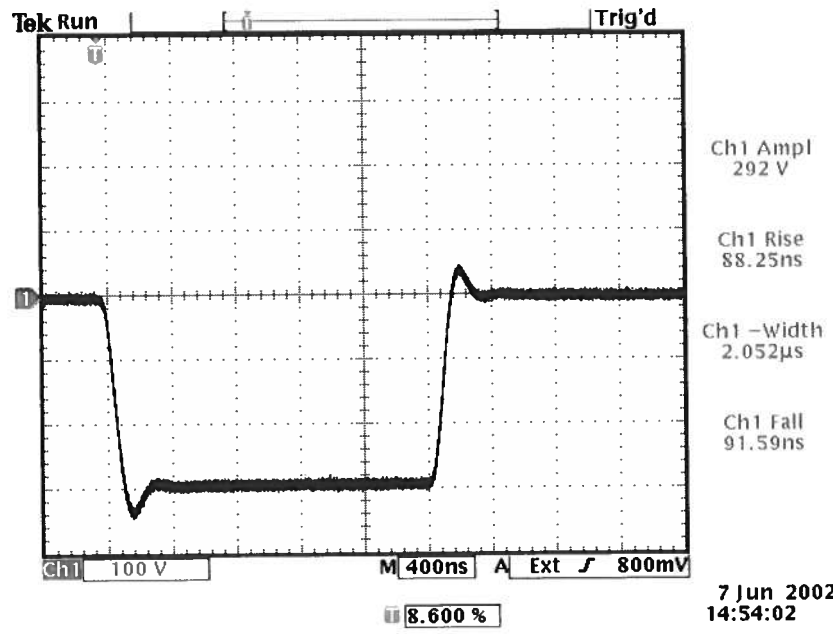
(A)

10219
NARROW PULSE
POS OUT.



(B)

10219
WIDE PULSE
NEG OUT





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"-B" Functional Test & Calibration Certificate

Date of test:	June 7, 2002				Tester:	MJC
Programmed model name:	AVRH-3-B-PN-EA					
Programmed serial number:	10219					
Firmware revision:	2.40					
Temp, RH:	26.4°C, 30.0%					
Internal trigger checked at:	1 Hz	10 Hz	100 Hz	1 kHz		
Actual measured output ¹ :	0.999 Hz	10.00 Hz	99.8 Hz	0.999 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	1 us	2.5 us	10 Hz, +3 kV, to 11 kOhms		
Actual measured output ² :	202 ns	1.01 us	2.56 us			
PWin = PWout mode checked:	yes			DC mode checked:	N/A	
Duty Cycle Limit:	0.25%					
Delay nulled:	yes					
Delay checked at:	200 ns	1 us	5 us	10 Hz, +3 kV, to 11 kOhms		
Actual measured output ¹ :	199 ns	1.00 us	5.07 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:	-300V	+300V	-3000V	+3000V	3 kV, 2 us, to 11 kOhms	
Actual measured output ² :	-295V	+299V	-2979 V	+3030V		
Amplitude polarity:	+/-					
Zout calibration:	N/A					
Electronic amplitude control:	OK					
External amplify mode:	N/A					
Ultravolt flux removed:	N/A					
Monitor V/I Ratio:	N/A			Monitor offset nulled:		
LCD Monitor calibrated:	N/A					
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					
LCD pull-ups installed:	yes					
Sync pulse width checked:	200 ns nom					
Circuit Boards:	PS:	93	Main:	108E		
Overload Trigger Resistance:	Trips at:	N/A	Installed:	6.2k		
DC fuses:	Positive:	1.5A	Negative:	N/A		
AC Current at 115 VAC:	Quiescent:	0.48A	Max. Load:	0.68A		
AC fuse:	1A					
120/240V operation:	OK			Fan operational:	yes	
Photographed:	yes					

¹ Checked with: Fluke PM6681 Counter (S/N 9446 066 81016), referenced to Datum ExacTime 9390-6000 (S/N 4461) GPS Frequency Reference

² Checked with: Tektronix TDS3052 digital oscilloscope (S/N B014783) for PW ≥ 5 ns, Tektronix 7704A/7S11/7T11/S4 sampling oscilloscope system (Cal. Label 112506) for PW < 5 ns.