

PULSE GENERATOR
PERFORMANCE CHECK

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

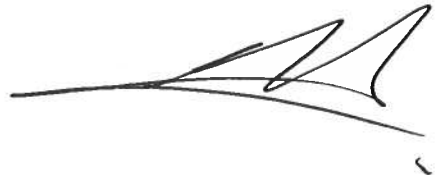
S.N.: *10027*

Date: *DEC 13 2001*

- a) Output signal amplitude:
0 TO ± 3000 V
- b) Pulse width: *TO R_L > 10K*
200N TO 2.54S
- c) Rise time:
≤ 100N (20-80%)
- d) Fall time:
≤ 100N (20-80%)
- e) PRF:
0 TO 1 KHz.
- f) Jitter, stability:
OK
- g) Prime power:

120/240 VOLTS

50-60 Hz.



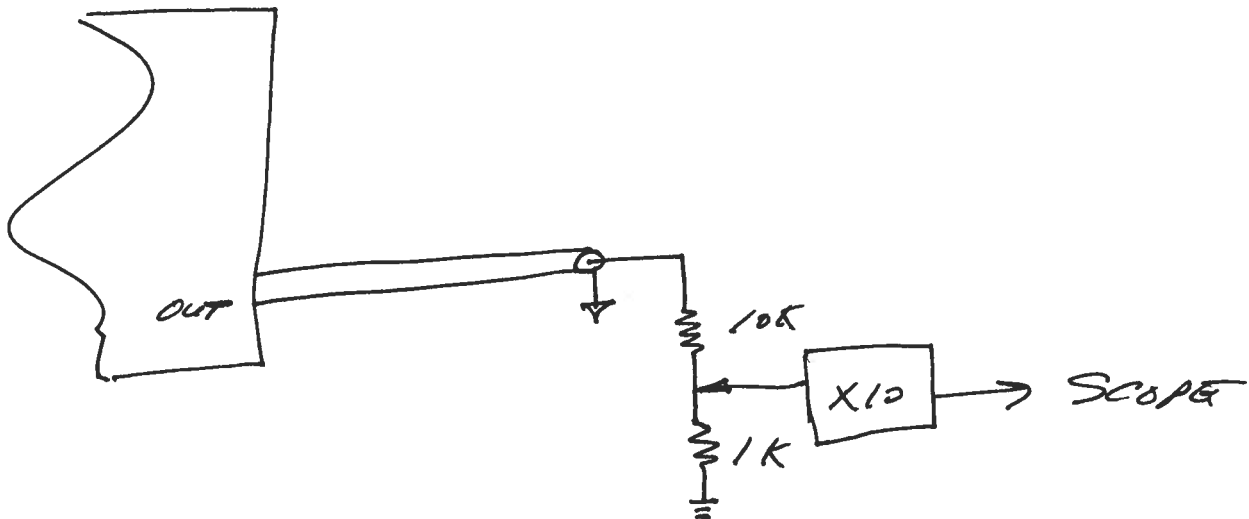
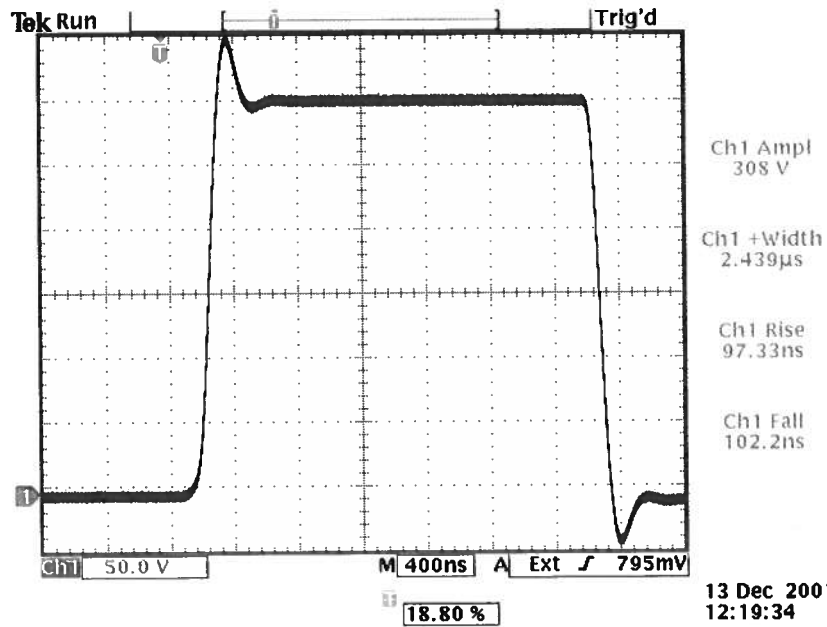
(A)

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POS OUT

$R_L \approx 10K$

PRF = 1KHz



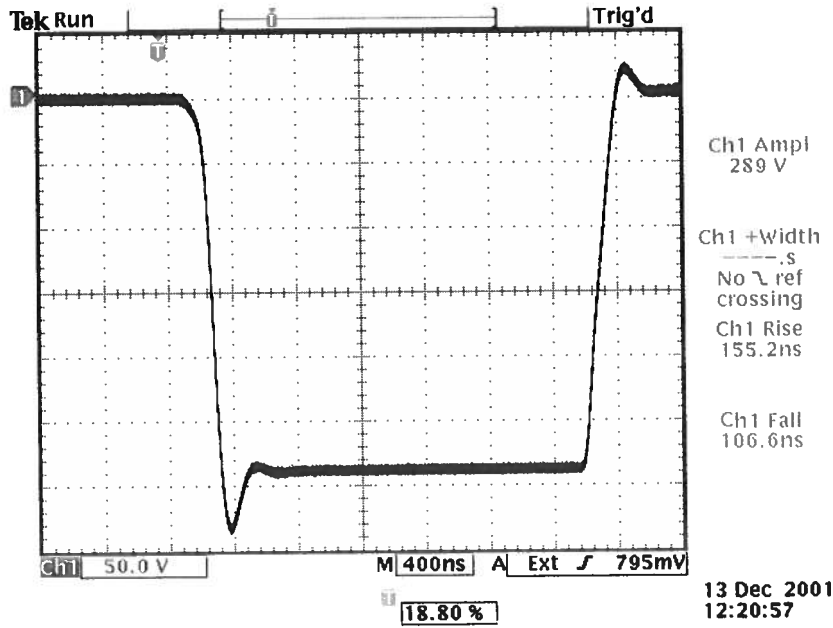
②

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NEG OUT

$R_L = 10K$

PRF $\approx 1.0KHz$



LOAD IS POK ⑨

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"-B" Functional Test & Calibration Certificate

Date of test:	December 13, 2001				Tester:	MJC
Programmed model name:	AVRH-3-B-PN-R5					
Programmed serial number:	10027					
Firmware revision:	2.33					
Internal trigger checked at:	1 Hz	10 Hz	100 Hz	1 kHz		
Actual measured output ¹ :	1.002 Hz	10.01 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	500 ns	1 us	2.5 us	10 Hz, + 3kV, to 11 kOhm	
Actual measured output ² :	199 ns	496 ns	0.97 us	2.51 us		
PW _{in} = PW _{out} mode checked:	yes		DC mode checked:		N/A	
Duty Cycle Limit:	0.25%					
Delay nulled:	yes					
Delay checked at:	200 ns	500 ns	1 us	5 us	10 Hz, + 3kV, to 11 kOhm	
Actual measured output ¹ :	199 ns	503 ns	1.003 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:	-300V	+1000V	-2000V	+3000V	100 Hz, 2.5us, to 11 kOhm	
Actual measured output ² :	-296V	+990V	-1980V	+3001V		
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					
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:	N/A					
Sync pulse width checked:	200 ns					
Circuit Boards:	PS:	93	Main:	108B		
Overload Trigger Resistance:	Trips at:	N/A	Installed:	N/A		
DC fuses:	Positive:	1.5A	Negative:	N/A		
AC Current at 115 VAC:	Quiescent:	0.51A	Max. Load:	1.1A		
AC fuse:	1A					
120/240V operation:	OK					
Photographed:	yes					

¹ Checked with: Fluke PM6681 Counter, referenced to Datum ExacTime 9390-6000 GPS Frequency Reference² Checked with: Tektronix TDS3052 digital oscilloscope for PW ≥ 5 ns,
Tektronix 7704A/7S11/7T11/S4 sampling oscilloscope system for PW < 5 ns.