

PULSE GENERATOR
PERFORMANCE CHECK

Model: *APRH-3-B-P*
S.N.: *10235*
Date: *JUNE 13 2002*

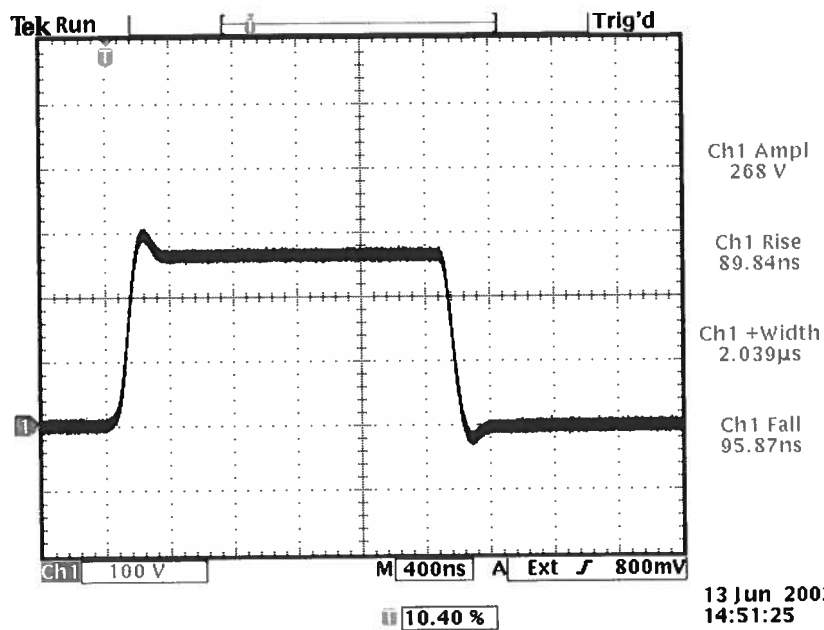
- a) Output signal amplitude:
0 TO +3000 V TO
- b) Pulse width: *R_L ≥ 10K*
200 NS TO 2.545
- c) Rise time:
≤ 100 NS
- d) Fall time:
≤ 100 NS
- e) PRF: *0 TO 1 KHz*
- f) Jitter, stability:
OK
- g) Prime power:

120/240 V
50 60 Hz

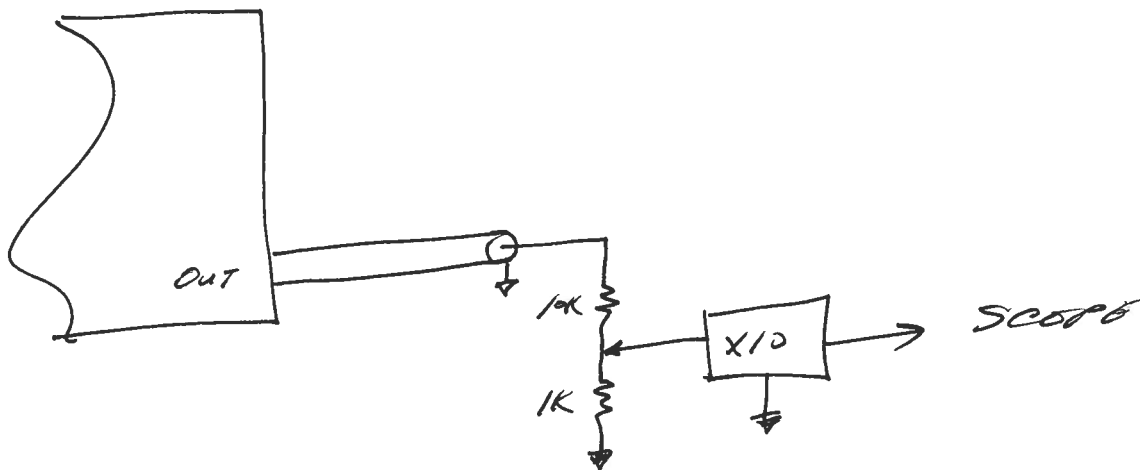


10235

$R_c = 11K$



$$268V \times 11.2 = 3000V.$$



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"-B" Functional Test & Calibration Certificate

Date of test:	June 13, 2002				Tester:	MJC
Programmed model name:	AVRH-3-B-P					
Programmed serial number:	10235					
Firmware revision:	2.40					
Temp, RH:	26.4°C, 40.4%					
Internal trigger checked at:	1 Hz	10 Hz	100 Hz	1 kHz		
Actual measured output ¹ :	1.004 Hz	10.05 Hz	100.3 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	1 us	2.5 us	10 Hz, +3 kV		
Actual measured output ² :	200 ns	1.00 us	2.55 us			
PWin = PWout mode checked:	yes			DC mode checked:	N/A	
Duty Cycle Limit:	0.25%					
Delay nulled:	yes					
Delay checked at:	100 ns	1 us	5 us	10 Hz, +3 kV		
Actual measured output ¹ :	100.0 ns	1.004 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:	+100V	+300V	+1000V	+3000V	10 Hz, 2.5 us	
Actual measured output ² :	+99V	+298V	+990V	+2990V	to 11 kOhms	
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:	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:	4.7k		
DC fuses:	Positive:	1.5A	Negative:	N/A		
AC Current at 115 VAC:	Quiescent:	0.37A	Max. Load:	0.60A		
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.