

PULSE GENERATOR
PERFORMANCE CHECK

Model: *APR-4-B-P-EA*
S.N.: *10101*
Date: *MAR 1 2002*

- a) Output signal amplitude:
0 TO +400V (TR > 50s)
- b) Pulse width:
100ns TO 100us
- c) Rise time:
0.5% MAX DUTY CYCLE
≤ 20 ns
- d) Fall time:
≤ 20 ns
- e) PRF:
0 TO 10 KHz
- f) Jitter, stability:
0.5% MAX DUTY CYCLE
OK
- g) Prime power:
120/240V
50-60 Hz
[Signature]

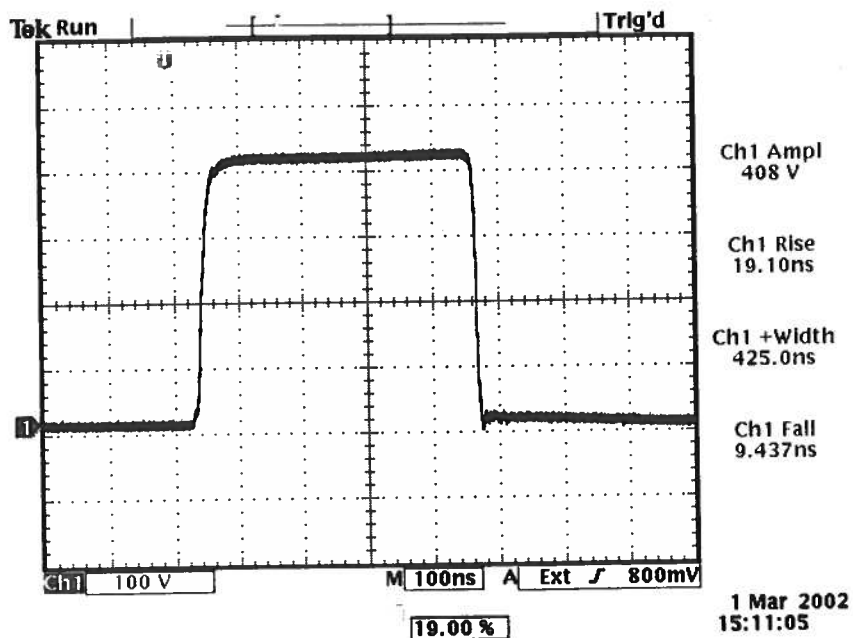
(A)

10101

$R_c = 50\Omega$

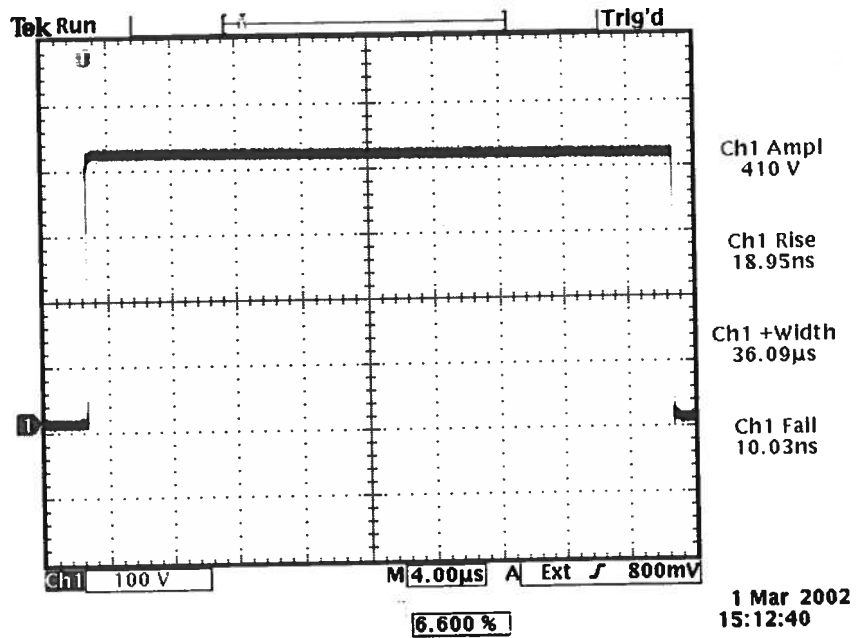
narrow pulse

port = 1kTR



(B)

10/01
 $R_c = 50 \Omega$
WIDE PULSE
PRF = 50 Hz





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"-B" Functional Test & Calibration Certificate

Date of test:	March 1, 2002				Tester:	MJC
Programmed model name:	AVR-4-B-P-EA					
Programmed serial number:	10101					
Firmware revision:	2.34					
Temp, RH:	24.1°C, 23.6%					
Internal trigger checked at:	1 Hz	10 Hz	100 Hz	1 kHz	10 kHz	
Actual measured output ¹ :	0.998 Hz	9.92 Hz	99.5 Hz	0.992 kHz	9.98 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:	100 ns	1 us	10 us	100 us	10 Hz, +400V to 50 Ohms	
Actual measured output ² :	99.5 ns	1.006 us	10.00 us	100.4 us		
PWin = PWout mode checked:	yes	DC mode checked:				N/A
Duty Cycle Limit:	0.5%					
Delay nulled:	yes					
Delay checked at:	100 ns	1 us	10 us	100 us	10 Hz, +400V to 50 Ohms	
Actual measured output ¹ :	100.1 ns	0.997 us	9.99 us	100.5 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:	+40V	+100V	+200V	+400V	10 Hz, 10 us to 50 Ohms	
Actual measured output ² :	+39.6V	+99.2V	+200V	+400V		
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					
Sync pulse width checked:	200 ns					
Circuit Boards:	PS:	93	Main:	108B		
Overload Trigger Resistance:	Trips at:	N/A	Installed:	4.7k + 68		
DC fuses:	Positive:	1A	Negative:	N/A		
AC Current at 115 VAC:	Quiescent:	0.39A	Max. Load:	0.73A		
AC fuse:	1A					
120/240V operation:	OK					
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.