

PULSE GENERATOR
PERFORMANCE CHECK

Model: AVR-7B-B-P-2A

S.N.: 9792

Date: APRIL 16 2001

- a) Output signal amplitude:
0 TO +700 V (RL 750 Ω)
- b) Pulse width:
100 NS TO 100 μ S
(0.5% MAX DUTY CYCLE)
- c) Rise time:
 ≤ 50 NS
- d) Fall time:
 ≤ 50 NS
- e) PRF: 0 TO 10 KHz.
(0.5% MAX DUTY CYCLE)
- f) Jitter, stability:
OK
- g) Prime power:
120 / 240 V
50 to 60 MHz



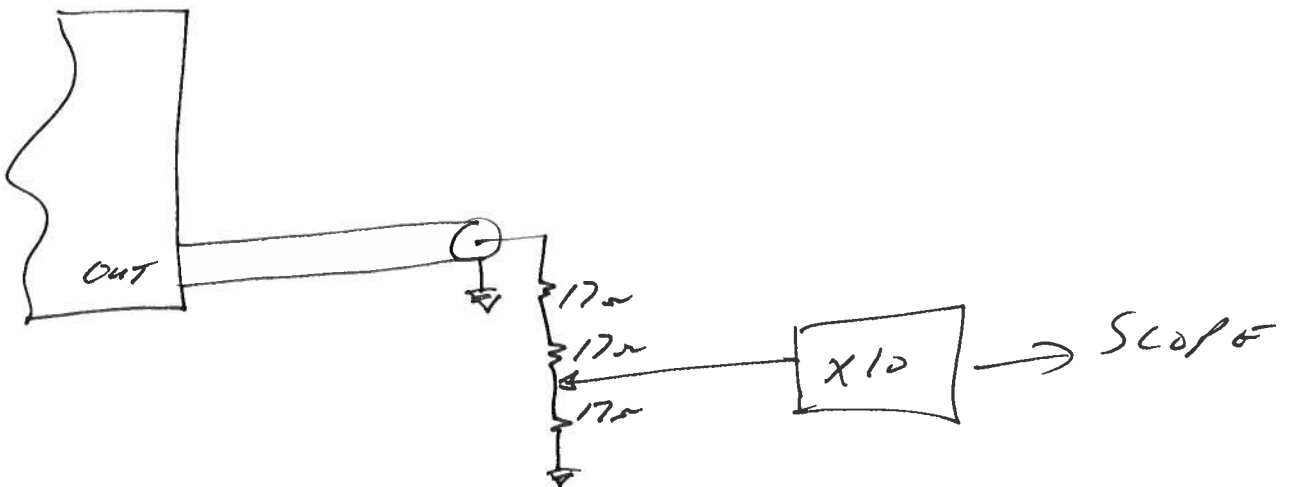
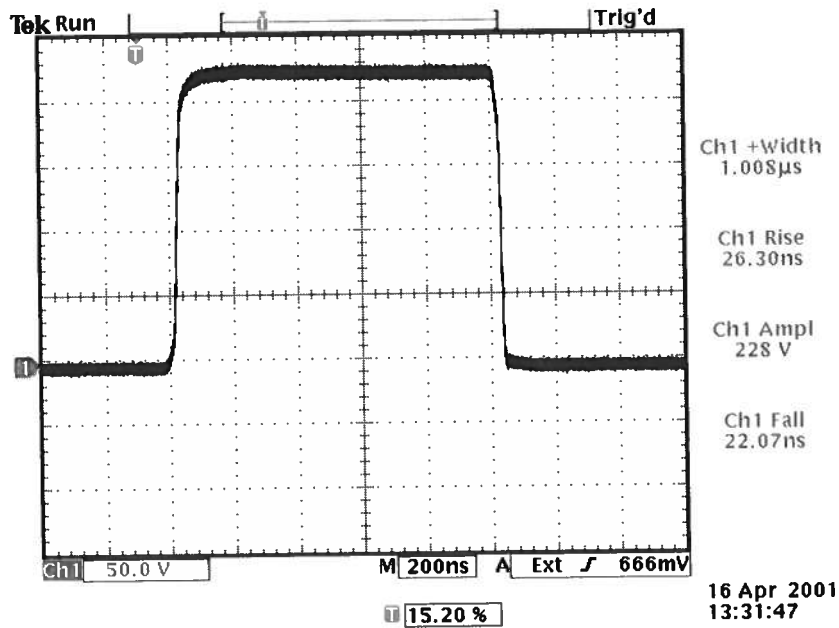
(A)

9792

NARROW PULSE.

$R_c = 50 \Omega$

$f_{BF} \approx 1 \text{ kHz}$



③

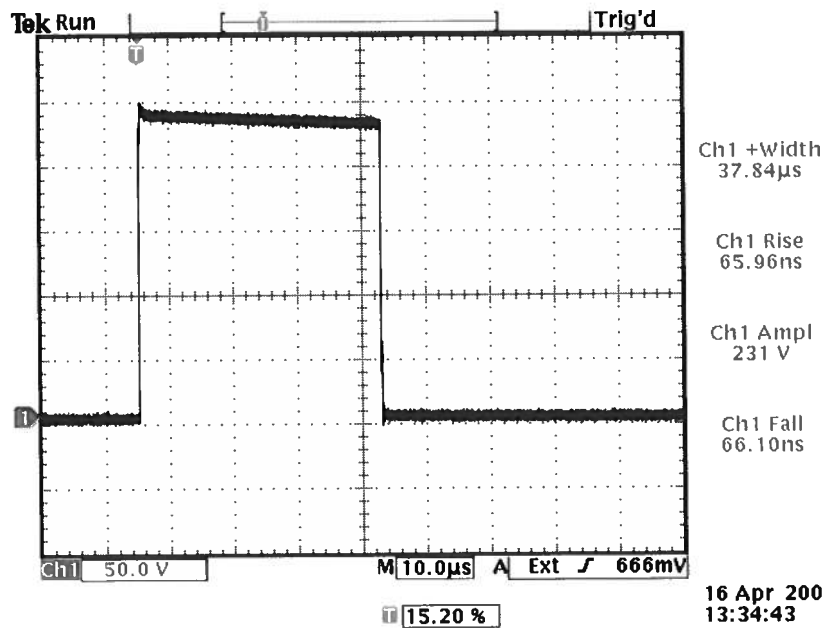
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WIDE PULSE

$R_c = 50\Omega$

$PRF = 100\text{ Hz}$

LOAD AS PER ①A.





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"-B" Functional Test & Calibration Certificate

Date of test:	April 16, 2001				Tester:	MJC
Programmed model name:	AVR-7B-B-P-EA					
Programmed serial number:	9792					
Firmware revision:	2.24					
Internal trigger checked at:	1 Hz	10 Hz	100 Hz	1 kHz	10 kHz	
Actual measured output ¹ :	0.998 Hz	9.97 kHz	99.6 Hz	0.999 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	1 Hz, to 50 Ohms	
Actual measured output ² :	99.6 ns	0.996 us	9.99 us	100.0 us		
PW _{in} = PW _{out} 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	5 Hz, to 50 Ohms	
Actual measured output ¹ :	100.8 ns	1.001 us	9.98 us	99.8 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	+700V		1 Hz, 10 us, to 50 Ohms	
Actual measured output ² :	+102V	+306V	+704V			
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			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:	108B		
Overload Trigger Resistance:	Trips at:	N/A	Installed:	1.5k		
DC fuses:	Positive:	3A	Negative:	N/A		
AC Current at 115 VAC:	Quiescent:	0.39A	Max. Load:	1.3A		
AC fuse:	1.5A					
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.