

PULSE GENERATOR

PERFORMANCE CHECK

Model: *AVR-7B-B-P-R5*

S.N.: *10175*

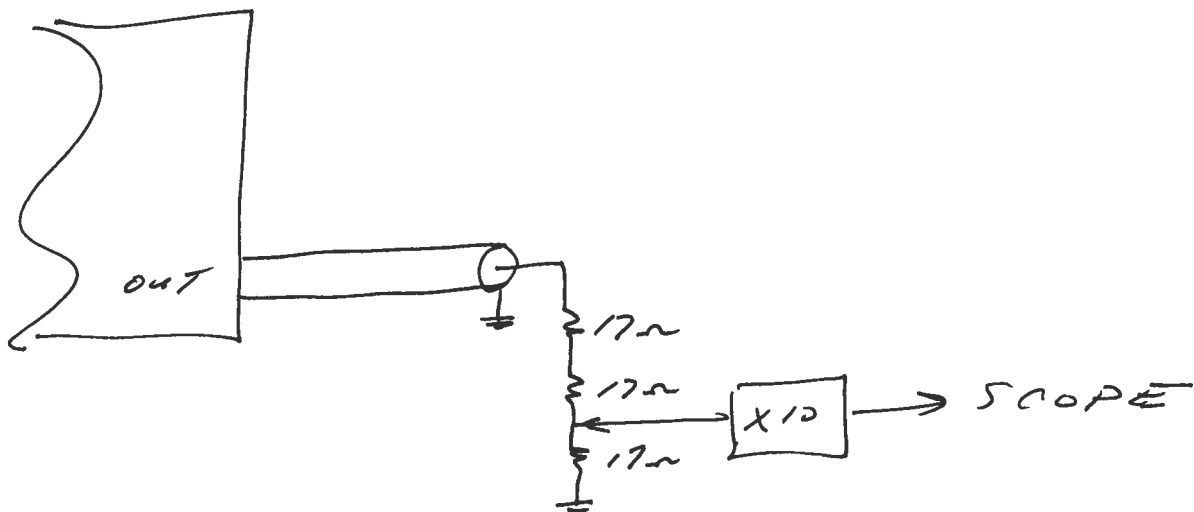
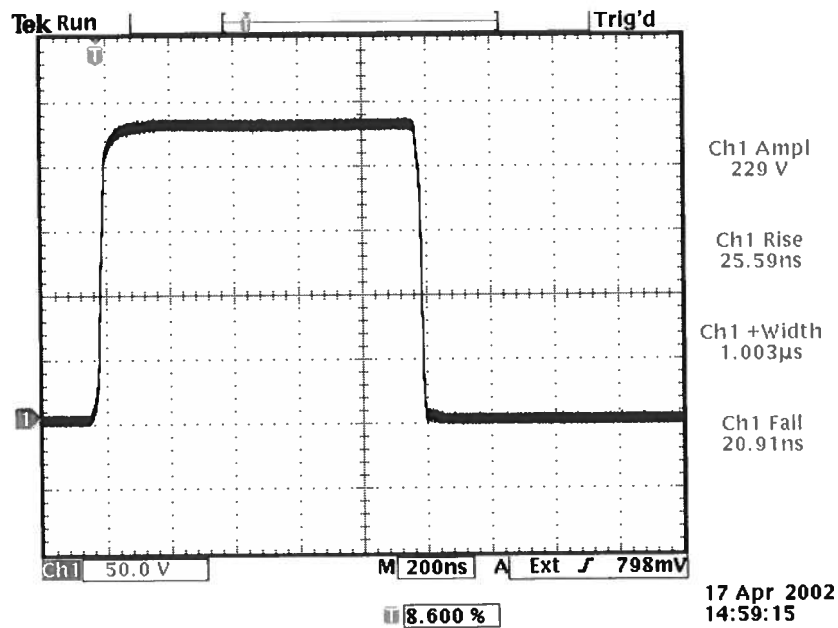
Date: *APRIL 17 2002*

- a) Output signal amplitude:
0 TO 1700 V
- b) Pulse width:
100 NS TO 100 US
(0.5% MAX DUTY CYCLE)
- c) Rise time:
≤ 50 NS
- d) Fall time:
≤ 50 NS
- e) PRF: *0 TO 10 K Hz*
(0.5% MAX DUTY CYCLE)
- f) Jitter, stability:
OK
- g) Prime power:
120/240 V
50-60 Hz

[Signature]

(A)

10175
NARROW PULSE
 $R_c = 50\Omega$
PRT = 10 KHz



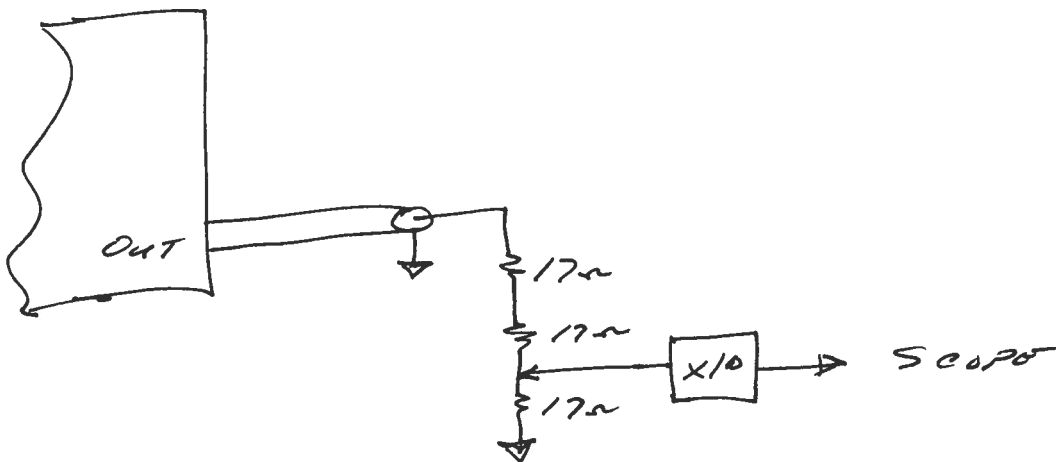
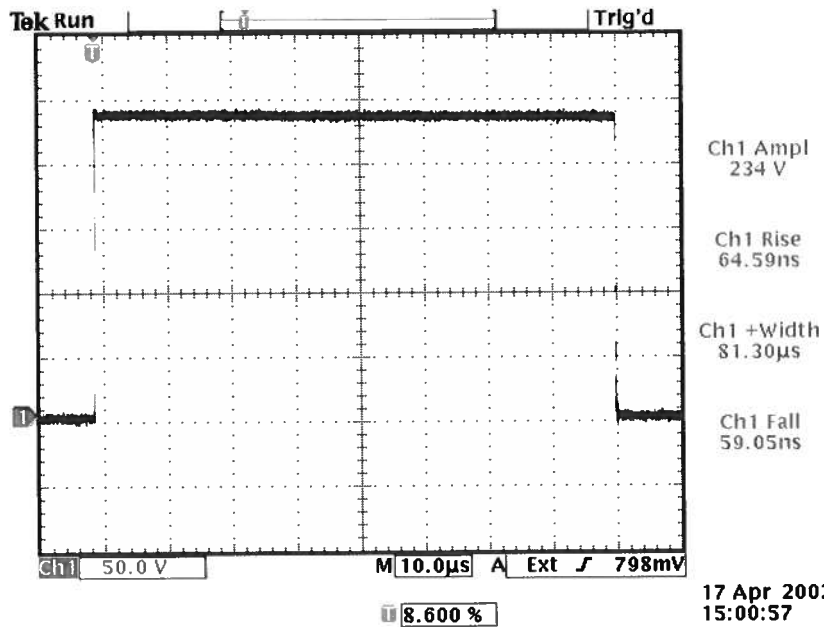
(B)

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WIDE PULSE

$R_c = 50\Omega$

PRF = 50 Hz.





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"-B" Functional Test & Calibration Certificate

Date of test:	April 17, 2002				Tester:	MJC
Programmed model name:	AVR-7B-B-P-R5					
Programmed serial number:	10175					
Firmware revision:	2.38					
Temp, RH:	26.4°C, 42.8%					
Internal trigger checked at:	1 Hz	10 Hz	100 Hz	1 kHz	10 kHz	
Actual measured output ¹ :	0.998 Hz	9.95 Hz	99.7 Hz	0.995 kHz	9.97 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, +700V to 50 Ohms	
Actual measured output ² :	101.6 ns	0.999 us	10.02 us	100.8 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	5 Hz, +30V to 50 Ohms	
Actual measured output ¹ :	101 ns	1.003 us	10.02 us	100.7 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	+200V	+400V	+700V	10 Hz, 10 us to 50 Ohms	
Actual measured output ² :	+100V	+200V	+400V	+702V		
Amplitude polarity:	+					
Zout calibration:	N/A					
Electronic amplitude control:	N/A					
External amplify mode:	N/A					
Ultraviolet 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 nom					
Circuit Boards:	PS:	93	Main:	108E		
Overload Trigger Resistance:	Trips at:	N/A	Installed:	1.5k		
DC fuses:	Positive:	3A	Negative:	N/A		
AC Current at 115 VAC:	Quiescent:	0.36A	Max. Load:	0.92A		
AC fuse:	1.5A					
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.