

PULSE GENERATOR
PERFORMANCE CHECK

Model: *AVR-G1-B-N-OT-PR1A*

S.N.: *9294*

Date: *MM 47 29 2000*

- a) Output signal amplitude:
PULSE: 0 TO -100 VOLTS
OFFSET: 0 TO +200 VOLTS.
- b) Pulse width:
100 NS TO 300 NS
- c) Rise time:
≤ 10 NS
- d) Fall time:
≤ 10 NS
- e) PRF: *0 TO 1 KHz*
- f) Jitter, stability: *OK*
- g) Prime power: *120/240 V*
50-60 Hz.

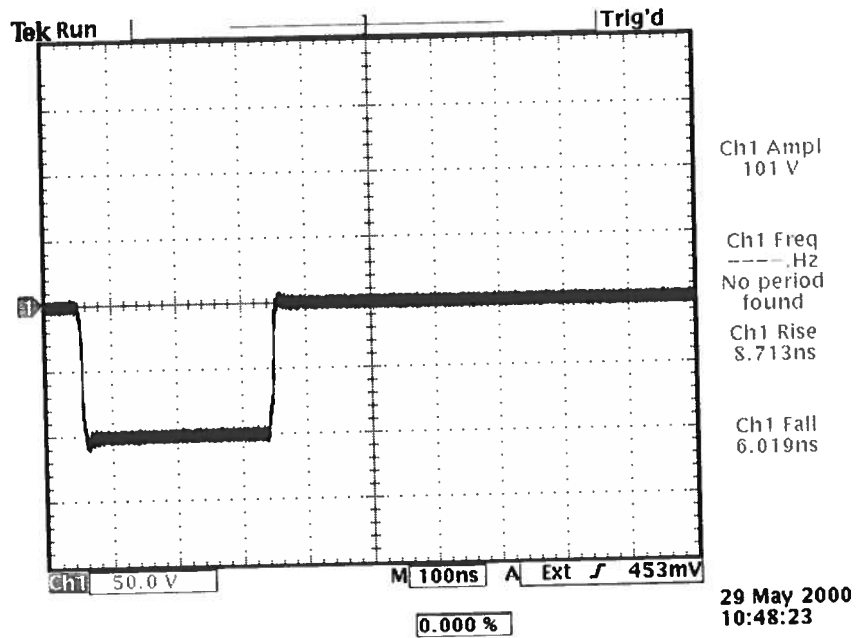


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$R_L > 100K$

$V_{PULSE} = -100V$

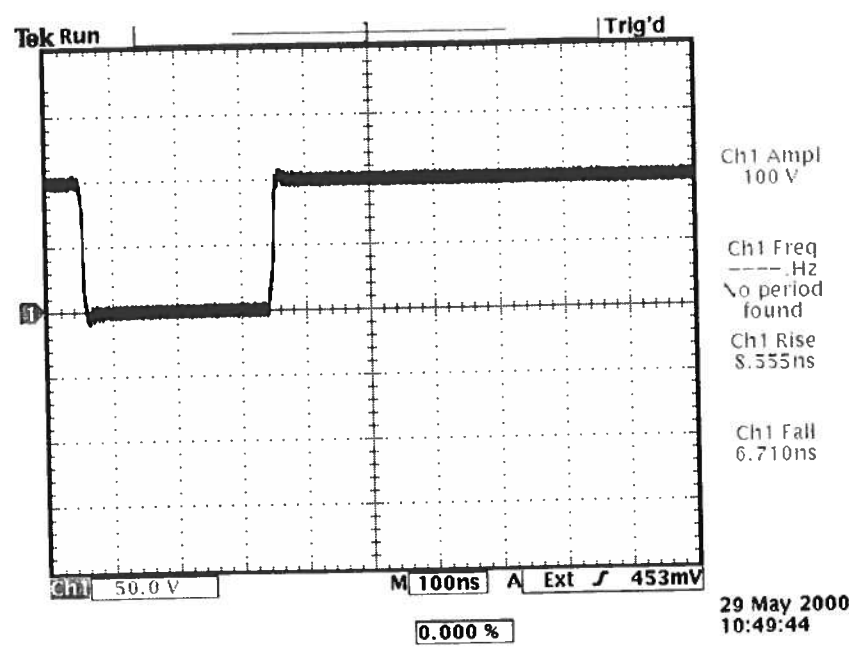
$V_{OFFSET} = 0$



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 $R_L \approx 100K$

$V_{PULSE} : -100V$

$V_{OFFSET} : +100V$

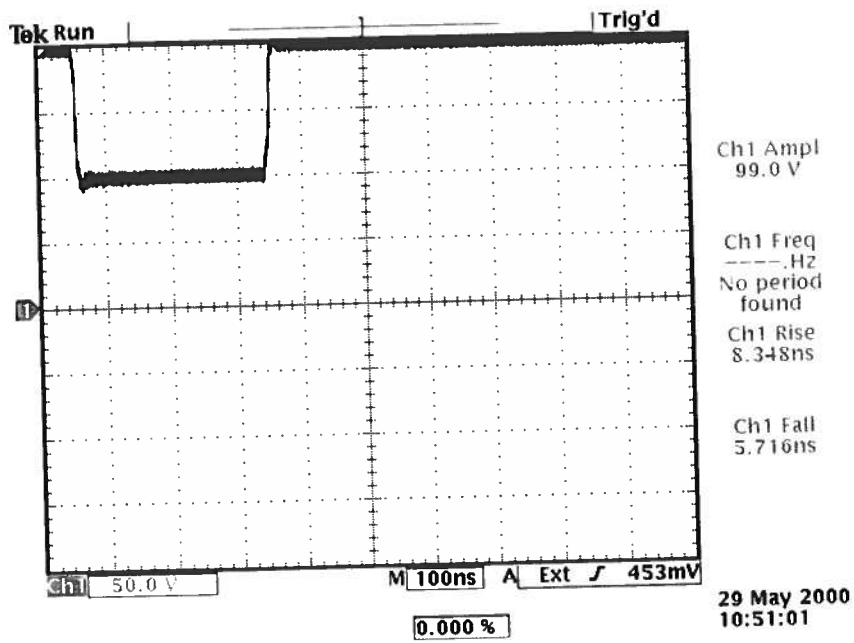


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$R_L > 100k$.

$V_{pulse} = -100V$

$V_{offset} = +200V$.





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"-B" Functional Test & Calibration Certificate

Date of test:	May 29, 2000				Tester:	MJC
Programmed model name:	AVR-G1-B-N-OT-PR1A					
Programmed serial number:	9294					
Firmware revision:	2.11					
Internal trigger checked at:	1 Hz	10 Hz	100 Hz	1 kHz		
Actual measured output ¹ :	1.010 Hz	10.09 Hz	100.9 Hz	1.006 kHz		
External trigger checked:	yes			Gate checked:	yes	
Trigger load resistor present:	yes					
Manual trigger checked:	yes					
Pulse compression checked:	yes					
Pulse width checked at:	100 ns	200 ns	300 ns			
Actual measured output ² :	99.3 ns	200.8 ns	302 ns			
PWin = PWout mode checked:	yes			DC mode checked:	N/A	
Duty Cycle Limit:	N/A					
Delay nulled:	yes					
Delay checked at:	1 us	10 us	100 us	1 ms		
Actual measured output ¹ :	1.000 us	10.01 us	100.3 us	1.001 ms		
Double pulse checked:	N/A					
Invert mode checked:	N/A					
ECL/TTL modes checked:	N/A					
Zout switch checked:	N/A					
Amplitude checked at:	-10V	-20V	-50V	-100V		
Actual measured output ² :	-9.92 V	-20.0V	-49.6V	-100.0V	10 Hz, 300 ns, into 10Mohms	
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			Monitor offset nulled:		
Mon. Single Pulse/Min PW OK:	N/A			SHA Cap:		
Offset checked at:	+20V	+50V	+100V	+200V		
Actual measured output ² :	+19.9V	+49.8V	+99.9V	+200.1V	DC	
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:	108		
Overload Trigger Resistance:	Trips at:	N/A	Installed:	20 k		
DC fuses:	Positive:	0.5A	Negative:	N/A		
AC Current at 115 VAC:	Quiescent:	0.45A	Max. Load:	N/A		
AC fuse:	1A					
Photographed:	yes					

¹ Checked with: HP5370A Universal Time Interval Counter

² Checked with: Tektronix TDS360 digital oscilloscope for PW ≥ 5 ns,
 Tektronix 7704A/7S11/7T11/S4 sampling oscilloscope system for PW < 5 ns.