

PULSE GENERATOR  
PERFORMANCE CHECK

Model: *AVR-G1-B-N-OT-PR1C*

S.N.: *9709*

Date: *MAR 26 2001*

- a) Output signal amplitude:  
*PULSE: 0 V - 100 VOLTS*
- b) Pulse width:  
*250 V - 0 V + 200 VOLTS*  
*30 NS TO 300 NS*
- c) Rise time:  
*≤ 10 NS*
- d) Fall time:  
*≤ 10 NS*
- e) PRF:  
*0 TO 3 KHz.*
- f) Jitter, stability:  
*OK*
- g) Prime power:  
*120/240 V*  
*50/60 Hz.*



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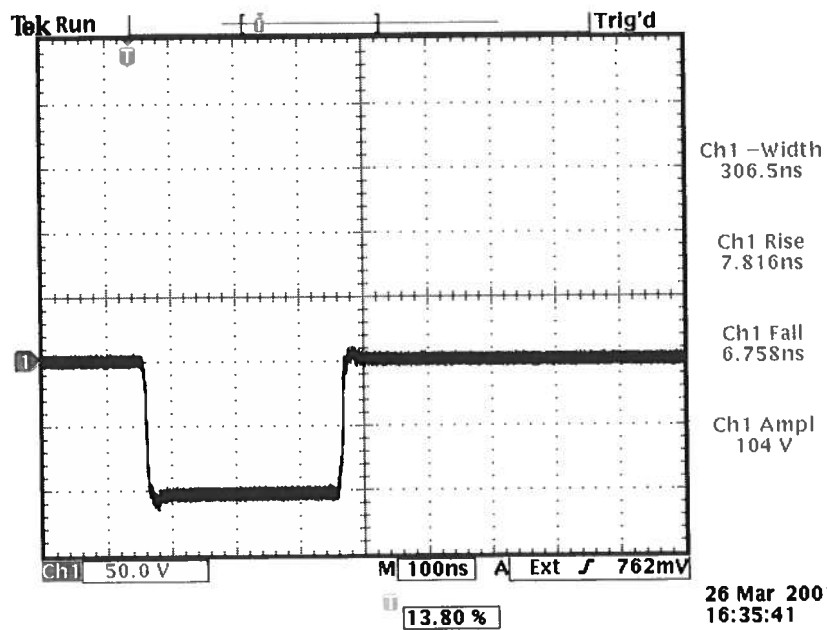
9709

$R_L \approx 100K$

$V_{pulse} = -100V$

$V_{offset} = 0$

1 METAL OUTPUT CABLE



(B)

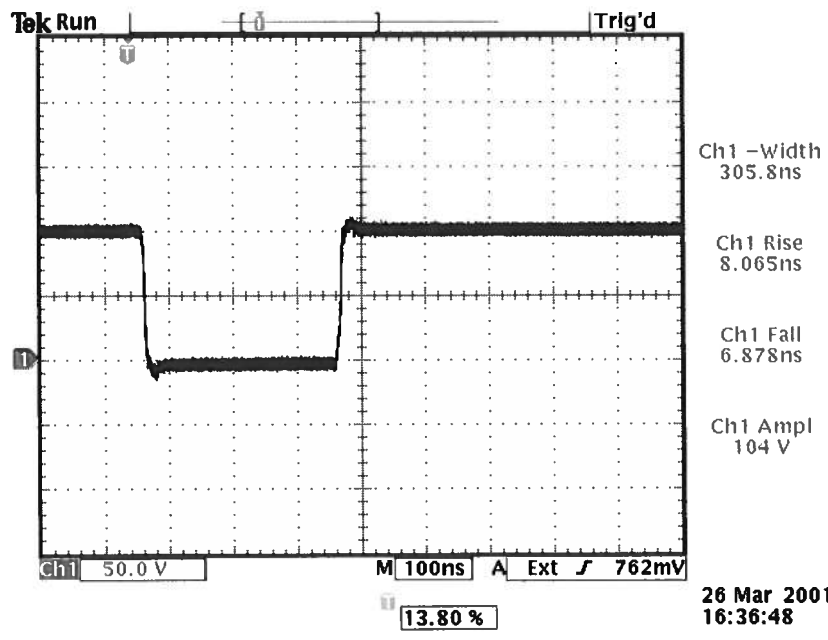
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$R_L \approx 100K$

$V_{PULSE} = -100V$

$V_{OFFSET} = +100V$

1 meter output cable



©

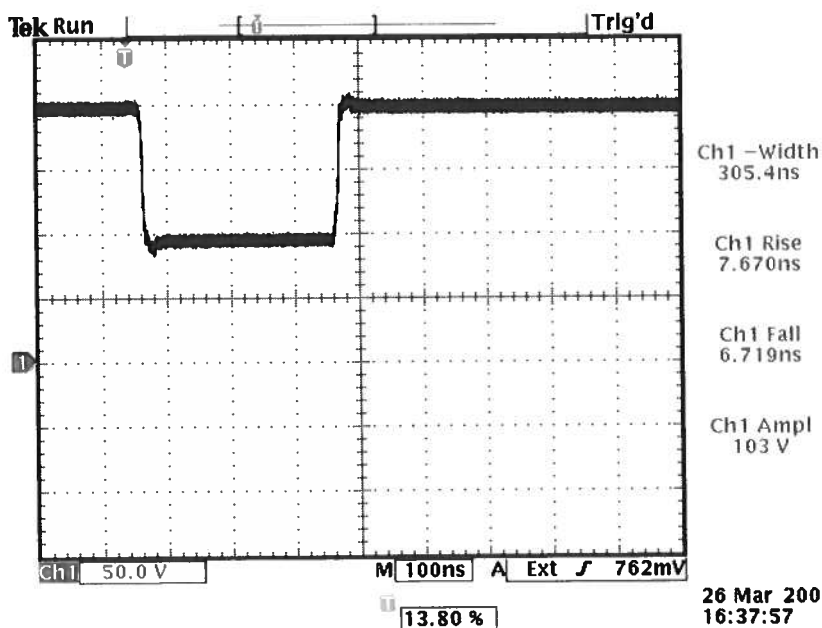
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$R_L \approx 100K$

$V_{pulse} = -100V$

$V_{offset} = +200V$

1 METER output caps CE.





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## "-B" Functional Test & Calibration Certificate

Date of test:	March 26, 2001				Tester:	MJC
Programmed model name:	AVR-G1-B-N-OT-PRIC					
Programmed serial number:	9709					
Firmware revision:	2.24					
Internal trigger checked at:	1 Hz	10 Hz	100 Hz	1 kHz	3 kHz	
Actual measured output <sup>1</sup> :	1.005 Hz	10.05 Hz	100.3 Hz	1.003 kHz	3.006 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:	30 ns	100 ns	200 ns	300 ns	-100V into	
Actual measured output <sup>2</sup> :	29.2 ns	100.6 ns	202.5 ns	305.3 ns	10M, 100 Hz	
PWin = PWout mode checked:	yes			DC mode checked:	N/A	
Duty Cycle Limit:	N/A					
Delay nulled:	yes					
Delay checked at:	100 ns	1 us	10 us	1 ms	-100V into	
Actual measured output <sup>1</sup> :	100.0 ns	0.997 us	9.993 us	1.000 ms	10M, 100 Hz	
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	300 ns into	
Actual measured output <sup>2</sup> :	-10.0V	-20.2 V	-51V	-102V	10M, 100 Hz	
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:		
Offset checked at:	N/A					
Actual measured output <sup>2</sup> :	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:	20k		
DC fuses:	Positive:	0.5A	Negative:	N/A		
AC Current at 115 VAC:	Quiescent:	0.45A	Max. Load:	0.46A		
AC fuse:	1A					
Photographed:	yes					

<sup>1</sup> Checked with: Fluke PM6681 Counter, referenced to Datum ExactTime 9390-6000 GPS Frequency Reference

<sup>2</sup> Checked with: Tektronix TDS3052 digital oscilloscope for PW ≥ 5 ns,  
Tektronix 7704A/7S11/7T11/S4 sampling oscilloscope system for PW < 5 ns.