

PULSE GENERATOR

PERFORMANCE CHECK

Model: AVR-5B-B-2A-PN

S.N.: 10071

Date: JAN 3 2002

- a) Output signal amplitude:  
0 to  $\pm 500V$  ( $R_L \geq 50\Omega$ )
- b) Pulse width:  
0.1 to 100  $\mu S$   
(1% max DUTY CYCLE)
- c) Rise time:  
 $\leq 30NS$
- d) Fall time:  
 $\leq 30NS$
- e) PRF:  
0 to 10 KHz  
(1% max DUTY CYCLE)
- f) Jitter, stability:  
OK
- g) Prime power:  
120/240V  
50/60 Hz.



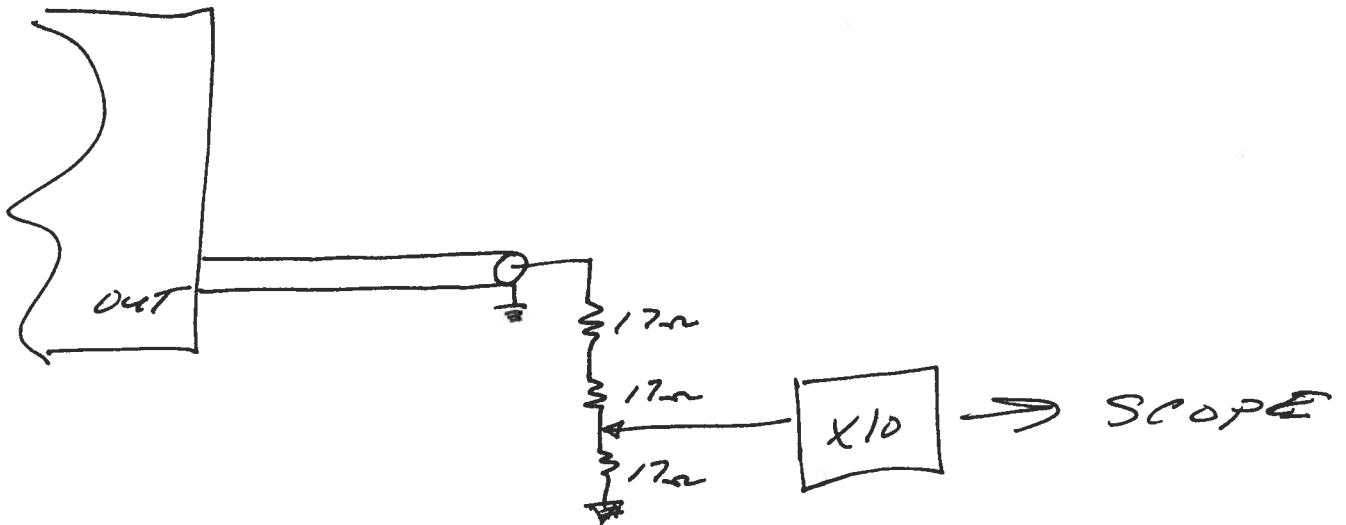
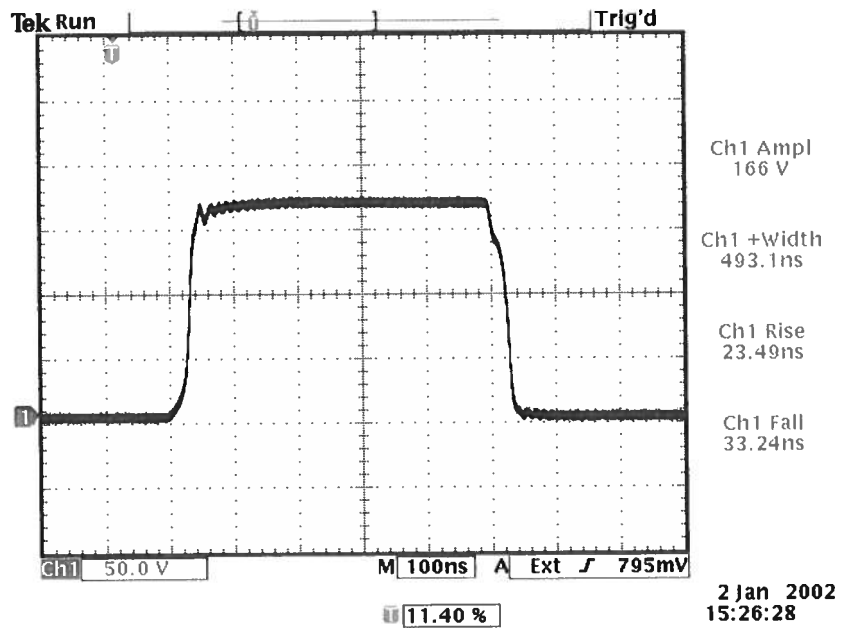
(A)

10071

NARROW PULSE

$P_{out}$

$R_L = 50 \Omega$



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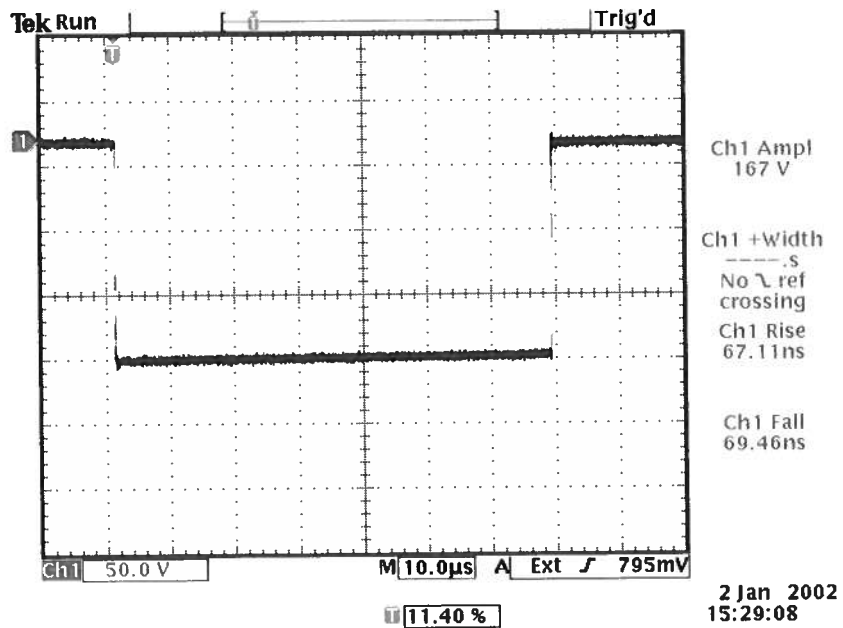
10071

WIDE PULSE

$N_{out}$

$$R_L = 50\Omega$$

$$PRF = 100\text{ Hz}$$



LOAD AS PER Ⓐ



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## "-B" Functional Test & Calibration Certificate

Date of test:	January 3, 2002				Tester:	MJC
Programmed model name:	AVR-5B-B-EA-PN					
Programmed serial number:	10071					
Firmware revision:	2.33					
Internal trigger checked at:	1 Hz	10 Hz	100 Hz	1 kHz	10 kHz	
Actual measured output <sup>1</sup> :	1.006 Hz	10.08 Hz	100.5 Hz	1.006 kHz	10.02 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, +500V into 50 Ohms	
Actual measured output <sup>2</sup> :	98.1 ns	0.993 us	9.99 us	99.8 us		
PWin = PWout mode checked:	yes	DC mode checked:			N/A	
Duty Cycle Limit:	1%					
Delay nulled:	yes					
Delay checked at:	100 ns	1 us	10 us	100 us	10 Hz, +500V into 50 Ohms	
Actual measured output <sup>1</sup> :	101 ns	1.001 us	10.00 us	99.9 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:	-10V	+50V	-200V	+500V	10 Hz, 1 us into 50 Ohms	
Actual measured output <sup>2</sup> :	-10.0V	+50.0V	-200V	+500V		
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 <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:	1.5k    1000 uF		
DC fuses:	Positive:	3A	Negative:	N/A		
AC Current at 115 VAC:	Quiescent:	0.45A	Max. Load:	1.05A		
AC fuse:	1.5A					
120/240V operation:	OK					
Photographed:	yes					

<sup>1</sup> Checked with: Fluke PM6681 Counter, referenced to Datum ExacTime 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.