


PULSE GENERATOR  
PERFORMANCE CHECK

Model: *AN-5B-B-PN*

S.N.: *10600*

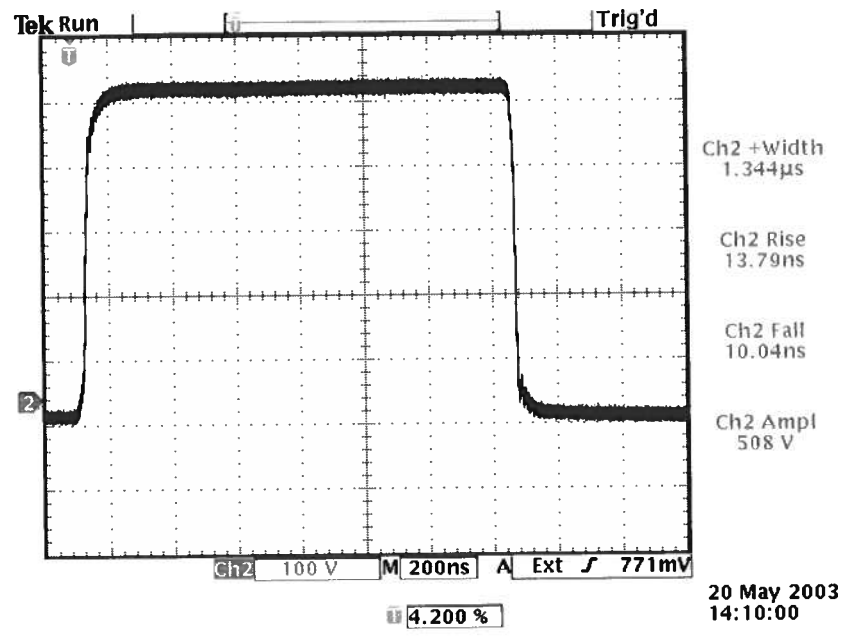
Date: *MAY 20 2003*

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



(1A)

10600  
NARROW PULSE  
 $R_L = 50 \Omega$   
PRF = 100 MHz.



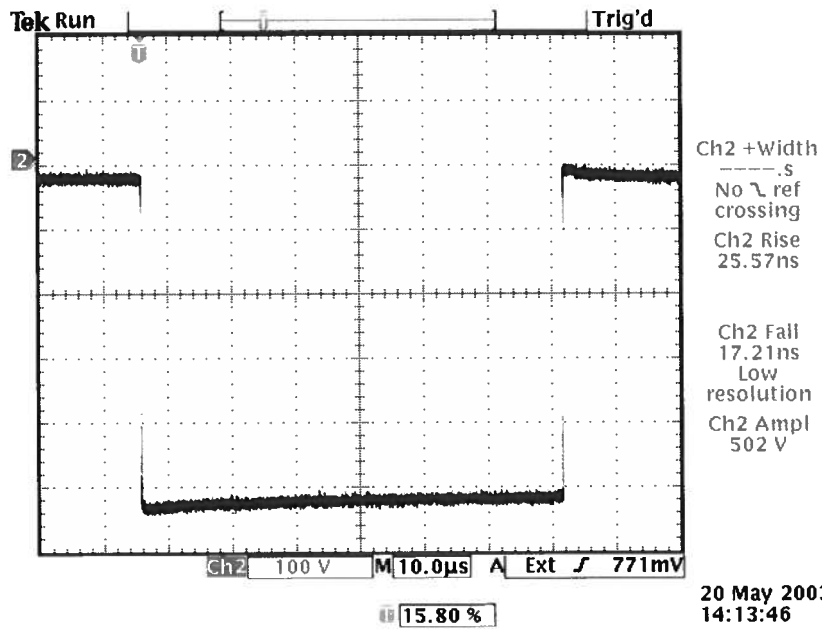
(B)

10600

WIDE PULSE

$R_L = 50 \Omega$

PRF = 10 Hz.





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## "-B" Functional Test & Calibration Certificate

Date of test:	May 20, 2003				Tester:	MJC	
Programmed model name:	AVR-5B-B-PN						
Programmed serial number:	10600						
Firmware revision:	2.46						
Internal trigger checked at:	1 Hz	10 Hz	100 Hz	1 kHz	10 kHz		
Actual measured output <sup>1</sup> :	0.999 Hz	9.989 Hz	99.88 Hz	0.999 kHz	9.992 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	100 Hz, +500V to 50 Ohms		
Actual measured output <sup>2</sup> :	101 ns	0.997 us	10.03 us	101.1 us			
PW <sub>in</sub> = PW <sub>out</sub> 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	100 Hz, +500V to 50 Ohms		
Actual measured output <sup>1</sup> :	101 ns	1.002 us	10.01 us	100.9 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:	-50V	+100V	-200V	+500V	10 Hz, 100 us to 50 Ohms		
Actual measured output <sup>2</sup> :	-50.0V	+101V	-200V	+502V			
Amplitude polarity:	+/-						
Zout calibration:	N/A						
Electronic amplitude control:	N/A						
External amplify mode:	N/A						
Bleeder resistors adequate:	yes						
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 <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						
LCD pull-ups installed:	yes						
PN trigger pull-downs installed:	yes						
PW stable during amplitude changes:	yes						
Sync pulse width checked:	200 ns nom						
Circuit Boards:	PS:	93	Main:	108E			
Overload Trigger Resistance:	Trips at:	N/A	Installed:	1.8k    1000 uF			
DC fuses:	Positive:	3.15A	Negative:	N/A			
AC Current:	Quiescent:	0.354A@115V 0.197A@230V	Max. Load:	1.01A@115V 0.49A@230V			
AC fuse:	1.5A						
120/240V operation:	OK		Fan operational:				yes
Photographed:	yes						

<sup>1</sup> Checked with: Fluke PM6681 Counter (S/N 9446 066 81016), referenced to Datum ExacTime 9390-6000 (S/N 4461) GPS Frequency Reference

<sup>2</sup> 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.