


PULSE GENERATOR  
PERFORMANCE CHECK

Model: AVR-4-B-EA-T  
S.N.: 9975  
Date: SEPT 10 2001

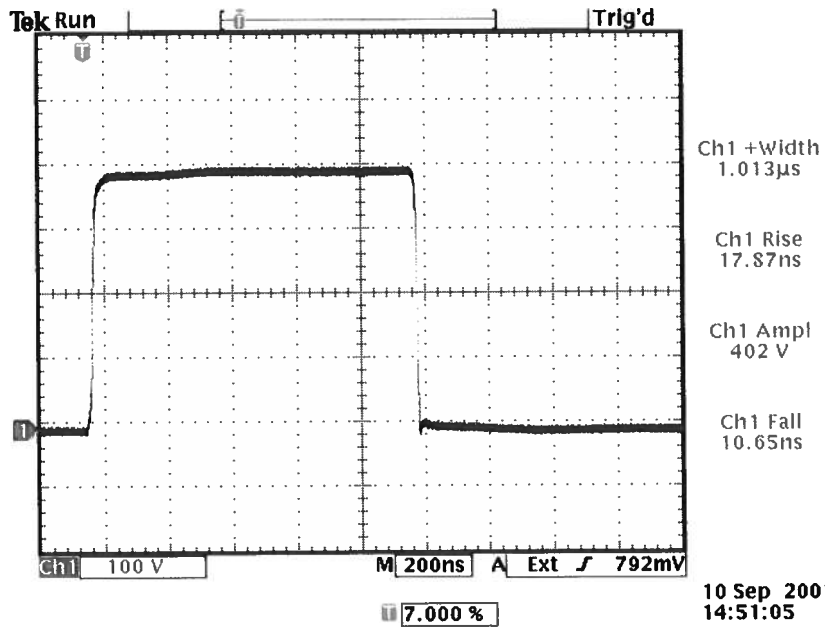
- a) Output signal amplitude:  
0 TO +400 VOLTS  
( $R_L > 50\Omega$ )
- b) Pulse width:  
100 NS TO 100  $\mu$ S  
(0.5% MAX DUTY CYCLE)
- c) Rise time:  
 $\leq 20$  NS
- d) Fall time:  
 $\leq 20$  NS
- e) PRF: 0 TO 10 KHz  
(0.5% MAX DUTY CYCLE)
- f) Jitter, stability:  
OK
- g) Prime power:

120/240V  
50-60 Hz



(A)

Q975  
NARROW PULSE  
 $R_c = 50 \Omega$   
PRF  $\approx 1 \text{ kHz}$



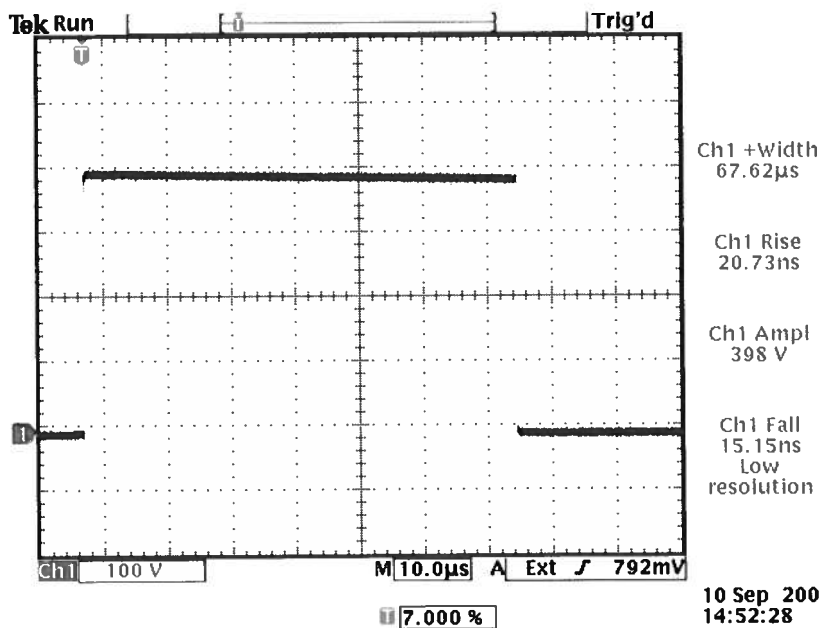
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9975

WIDE PULSE

$R_L = 50 \Omega$

PRF  $\approx 50$  MHz





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## "-B" Functional Test & Calibration Certificate

Date of test:	September 10, 2001				Tester:	MJC
Programmed model name:	AVR-4-B-EA-P					
Programmed serial number:	9975					
Firmware revision:	2.27					
Internal trigger checked at:	1 Hz	10 Hz	100 Hz	1 kHz	10 kHz	
Actual measured output <sup>1</sup> :	1.004 Hz	10.03 Hz	100.3 Hz	0.998 kHz	10.01 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	10 Hz, +400V to 50 Ohms	
Actual measured output <sup>2</sup> :	99.3 ns	1.008 us	10.03 us	100.6 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	10 Hz, +400V to 50 Ohms	
Actual measured output <sup>1</sup> :	99.7 ns	0.999 us	10.02 us	100.5 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	+300V	+400V	10 Hz, 1 us to 50 Ohms	
Actual measured output <sup>2</sup> :	+99.6V	+200V	+299V	+400V		
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			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:	6.2k		
DC fuses:	Positive:	1A	Negative:	N/A		
AC Current at 115 VAC:	Quiescent:	0.39A	Max. Load:	0.68A		
AC fuse:	1A					
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.