

PULSE GENERATOR
PERFORMANCE CHECK

Model: AN-1011-13

S.N.: 9459

Date:

- a) Output signal amplitude:
0 TO $\pm 100V$ (At 7.50s)
- b) Pulse width:
0.145 TO 1 MS
- c) Rise time: (10% MAX DUTY CYCLE)
 $\leq 10NS$
- d) Fall time:
 $\leq 10NS$
- e) PRF:
0 TO 1 MHz
- f) Jitter, stability: (10% MAX DUTY CYCLE)
OK
- g) Prime power:
120/240V
50-60Hz



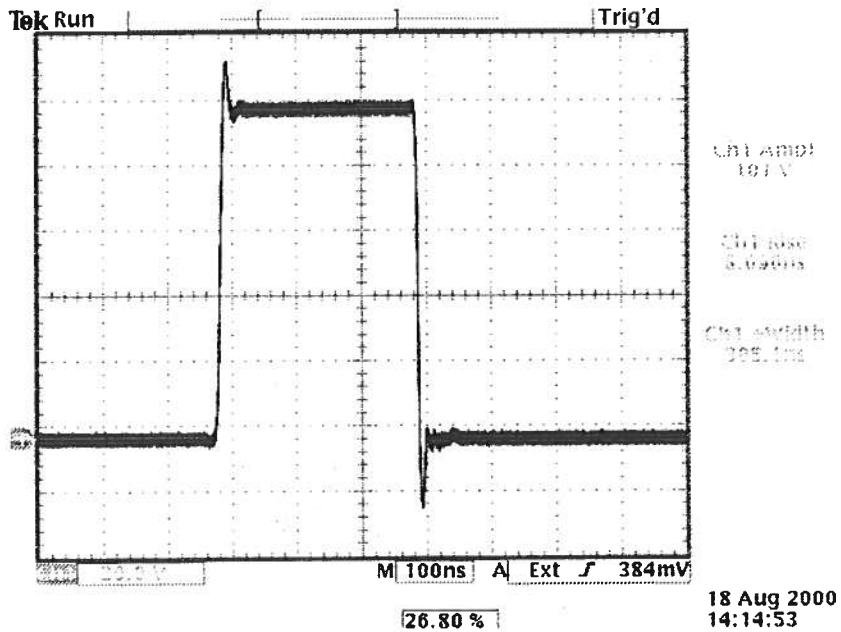
9459

PRF = 100 KHz

$Z_{out} = 2 \Omega$

$R_c = 50 \Omega$

DOS OUT.



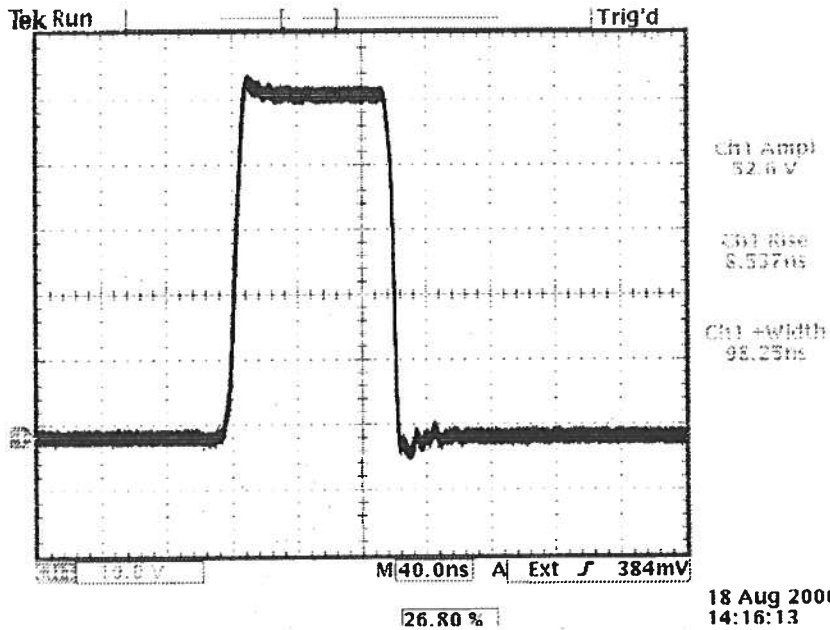
9459

PRF = 1.0 MHz

$R_{out} = 50 \Omega$

$R_L = 50 \Omega$

POS OUT



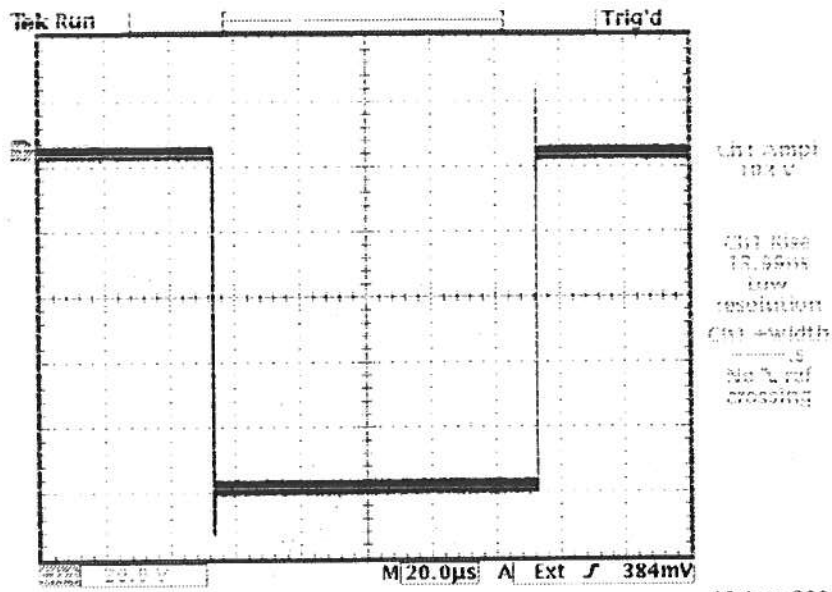
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PRF = 100 Hz

$Z_{out} = 2 \Omega$

$R_c = 50 \Omega$

NEG OUT.



26.80 %

18 Aug 2000
14:17:41

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"-B" Functional Test & Calibration Certificate

Date of test:	August 18, 2000				Tester:	MJC
Programmed model name:	AV-1011-B					
Programmed serial number:	9459					
Firmware revision:	2.21					
Internal trigger checked at:	0.1 Hz	10 Hz	1 kHz	10 kHz	1 MHz	
Actual measured output ¹ :	0.0997 Hz	9.97 Hz	0.997 kHz	9.97 kHz	1.001 MHz	
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	1 us	10 us	1 ms	10 Hz, +100V, to 50 Ohms	
Actual measured output ² :	98.1 ns	1.00 us	10.0 us	1.00 ms		
PWin = PWout mode checked:	yes			DC mode checked:	N/A	
Duty Cycle Limit:	10%					
Delay nulled:	yes					
Delay checked at:	100 ns	1 us	10 us	1 ms	10 Hz, +100V, to 50 Ohms	
Actual measured output ¹ :	100.0 ns	0.997 us	9.99 us	1.002 ms		
Double pulse checked:	yes					
Invert mode checked:	N/A					
ECL/TTL modes checked:	N/A					
Zout switch checked:	yes					
PRF, PW, delay min-to-max check:	yes					
Amplitude checked at:	-10V	+20V	-50V	+100V	10 Hz, 10 us, into 50 Ohms	
Actual measured output ² :	-10.0V	+20.0V	-49.6V	+100V		
Amplitude polarity:	+/-					
Zout calibration:	N/A					
Electronic amplitude control:	OK					
External amplify mode:	N/A					
Ultraviolet flux removed:	OK					
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:	N/A			Amplitude-dependent offset nulled:		
Actual measured output ² :	N/A					
Offset nulled (output on):	N/A					
Offset nulled (output off):	N/A					
RS-232 checked:	yes					
Sync pulse width checked:	50 ns					
Circuit Boards:	PS:	93	Main:	108		
Overload Trigger Resistance:	Trips at:	N/A	Installed:	4k		
DC fuses:	Positive:	2A	Negative:	N/A		
AC Current at 115 VAC:	Quiescent:	0.43A	Max. Load:	0.82A		
AC fuse:	1A					
Photographed:	yes					

¹ Checked with: HP5370A Universal Time Interval Counter² Checked with: Tektronix TDS360 digital oscilloscope for PW ≥ 5 ns,
Tektronix 7704A/7S11/7T11/S4 sampling oscilloscope system for PW < 5 ns.