

PULSE GENERATOR
PERFORMANCE CHECK

Model: AV 1011-B

S.N.: 9405

Date: JUNE 6 2000

a) Output signal amplitude:

0 TO ± 100 VOLTS ($V_L \geq 50\%$)

b) Pulse width:

0.1 μ S TO 1 MS

c) Rise time: (10% MAX DUTY CYCLE)

≤ 10 NS

d) Fall time:

≤ 10 NS

e) PRF: 0 TO 1 MHz

(10% MAX DUTY CYCLE)

f) Jitter, stability:

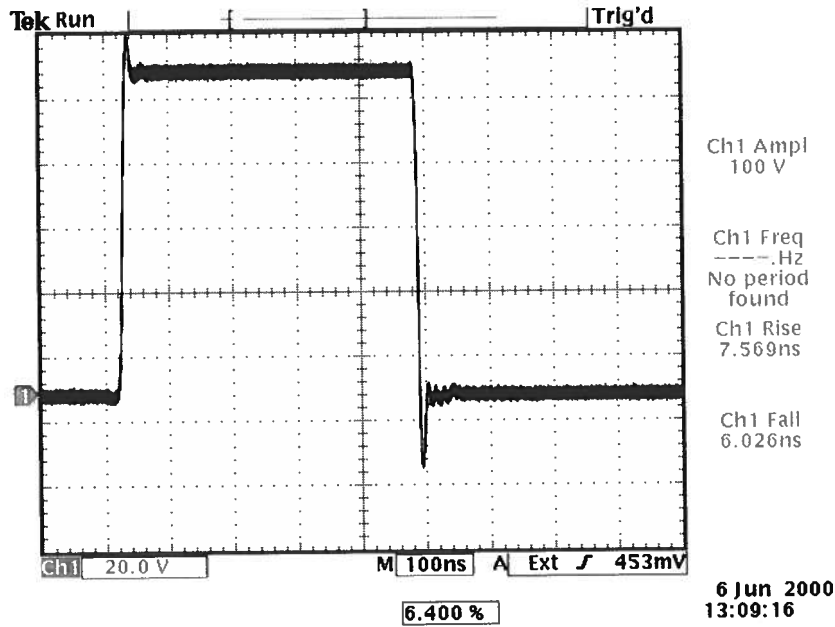
OK

g) Prime power:

20/240V
50-60Hz



9405
PRF = 100 kHz
 $Z_{ait} = 2 \Omega$
 $R_L = 50 \Omega$
POS OUT.



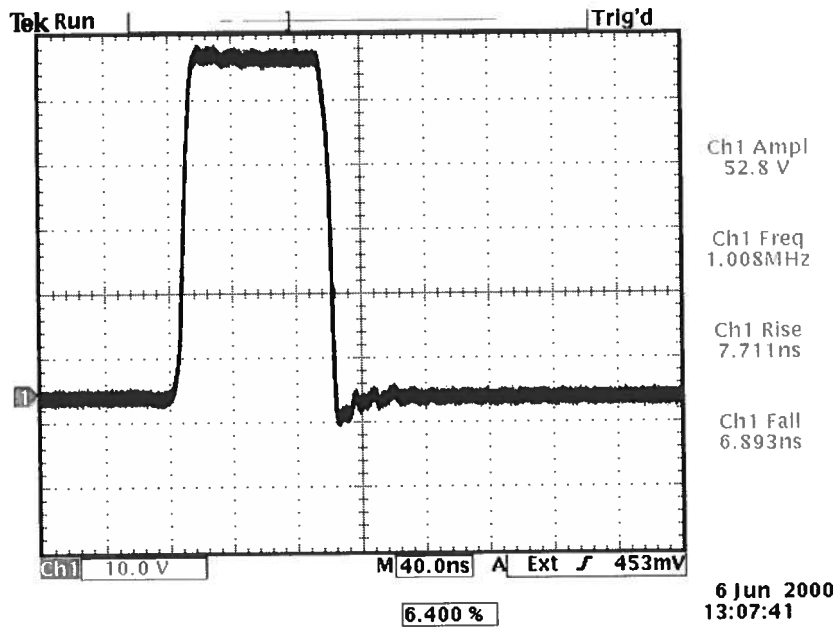
9405

PRF = 1.0 MHz

$Z_{out} = 50\Omega$

$R_i = 50\Omega$

Pos out.



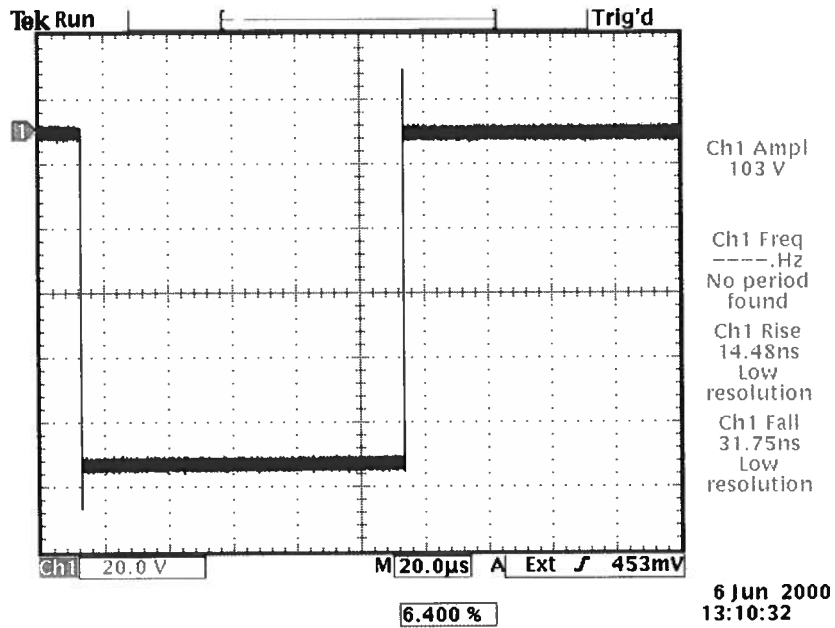
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PRF = 100 Hz

$Z_{out} = 2 \Omega$

$R_c = 50 \Omega$

WEL_{OUT}





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"-B" Functional Test & Calibration Certificate

Date of test:	June 6, 2000				Tester:	MJC
Programmed model name:	AV-1011-B					
Programmed serial number:	9405					
Firmware revision:	2.11					
Internal trigger checked at:	0.1 Hz	10 Hz	1 kHz	1 MHz		
Actual measured output ¹ :	0.0995 Hz	9.98 Hz	0.997 kHz	1.003 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:	90 ns	1 us	100 us	1 ms	+100V, 10 Hz,	
Actual measured output ² :	89.1 ns	0.997 us	99.6 us	1.00 ms	into 50 Ohms	
PWin = PWout mode checked:	yes			DC mode checked:	N/A	
Duty Cycle Limit:	10%					
Delay nulled:	yes					
Delay checked at:	100 ns	1 us	100 us	1 ms	+100V, 10 Hz,	
Actual measured output ¹ :	100.0 ns	0.997 us	99.8 us	1.005 ms	into 50 Ohms	
Double pulse checked:	yes					
Invert mode checked:	N/A					
ECL/TTL modes checked:	N/A					
Zout switch checked:	yes					
Amplitude checked at:	-10V	+30V	-50V	+100V	10 Hz, 10 us,	
Actual measured output ² :	-10.0V	+29.9V	-50.0V	+100.0V	into 50 Ohms	
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					
Actual measured output ² :	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:	50 ns					
Circuit Boards:	PS:	93	Main:	108		
Overload Trigger Resistance:	Trips at:	N/A	Installed:	4K, OLO		
DC fuses:	Positive:	2A	Negative:	N/A		
AC Current at 115 VAC:	Quiescent:	0.40A	Max. Load:	0.85A		
AC fuse:	1A					
Photographed:	yes					

¹ Checked with: HP5370A Universal Time Interval Counter

² Checked with: Tektronix TDS360 digital oscilloscope for PW ≥ 5 ns,
Tektronix 7704A/7S11/7T11/S4 sampling oscilloscope system for PW < 5 ns.