

PULSE GENERATOR
PERFORMANCE CHECK

Model: *AV-1011-B*
S.N.: *9388*
Date: *AP 25 2000*

- a) Output signal amplitude:
0 TO ± 100 V
- b) Pulse width: *($R_i \geq 50 \Omega$)*
- c) Rise time: *0.1 μ S TO 1 μ S*
(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:
120 / 240 V
50 to 60 Hz



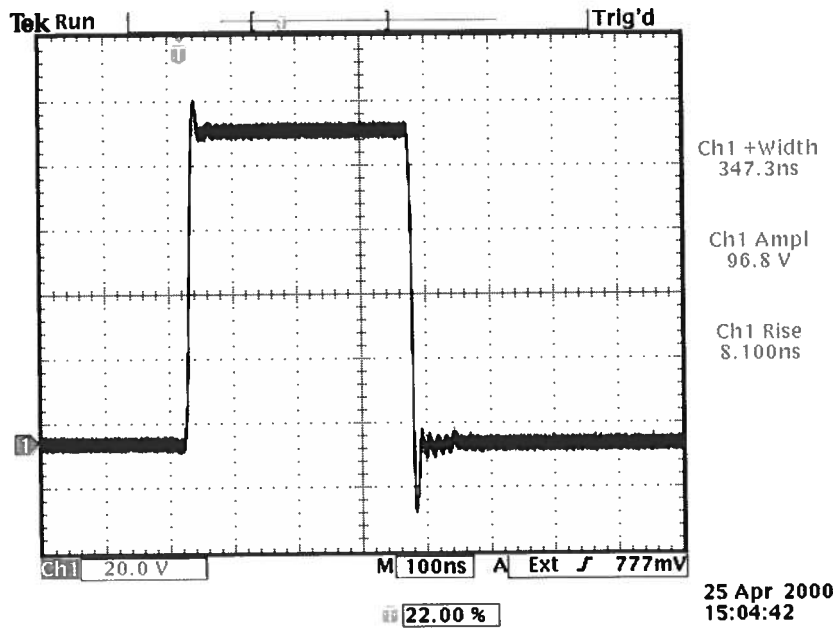
9388

PRF = 100 kHz

$Z_{out} = 2\Omega$

$R_c = 50\Omega$

POS OUT.



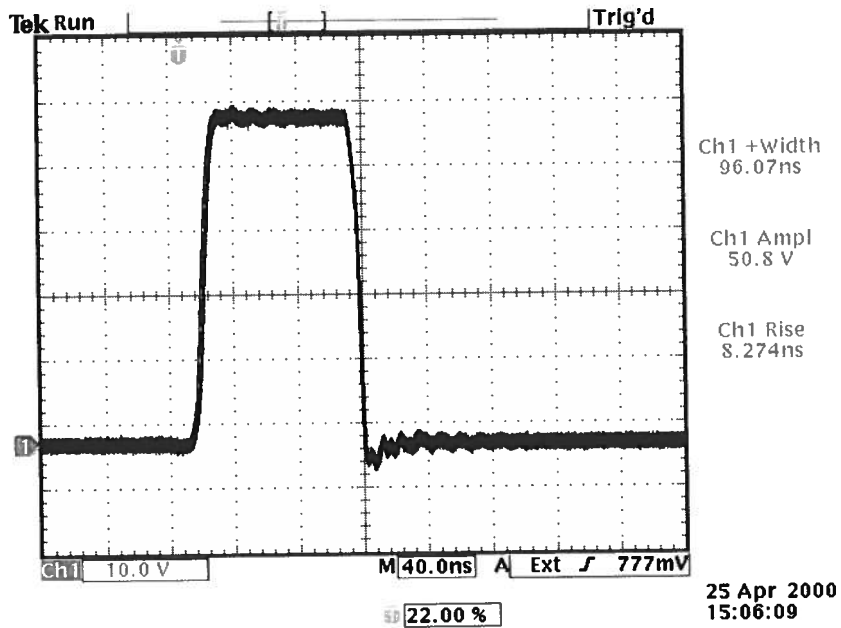
9383

PRF = 1.0 MHz

$Z_{out} = 50 \Omega$

$R_L = 50 \Omega$

PDS OUT.



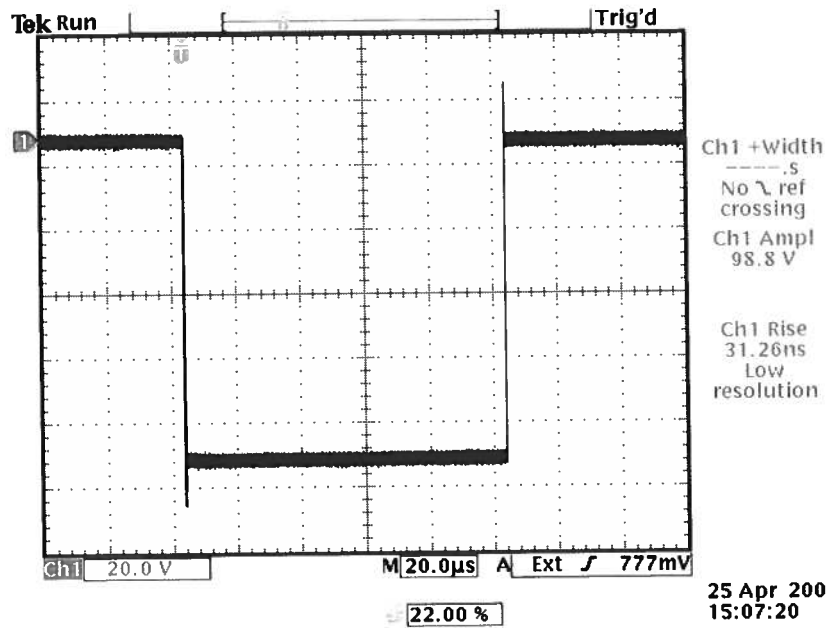
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$P_{RF} = 100 \text{ mW}$

$Z_{out} = 2 \Omega$

$R_c = 50 \Omega$

NEG OUT.



25 Apr 2000
15:07:20



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"-B" Functional Test & Calibration Certificate

Date of test:	April 19, 2000				Tester:	MJC
Programmed model name:	AV-1011-B					
Programmed serial number:	9388					
Firmware revision:	2.11					
Internal trigger checked at:	0.1 Hz	10 Hz	1 kHz	1 MHz		
Actual measured output ¹ :	0.0998 Hz	10.03 Hz	1.002 kHz	0.994 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	+100V, 10 Hz,	
Actual measured output ² :	97.3 ns	0.997 us	9.997 us	1.004 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	10 us	1 ms	+100V, 10 Hz,	
Actual measured output ¹ :	100.0 ns	0.998 us	10.00 us	1.002 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:	-20V	+20V	-100V	+100V	10 Hz, 100 us,	
Actual measured output ² :	-19.8 V	+20.0V	-99.2V	+100.3V	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		
DC fuses:	Positive:	2A	Negative:	N/A		
AC Current at 115 VAC:	Quiescent:	0.41A	Max. Load:	0.84A		
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.