

PULSE GENERATOR
PERFORMANCE CHECK

Model: *AV-1011-B*
S.N.: *9894*
Date: *July 10 2001*

- a) Output signal amplitude:
0 to 100V ($R_L \geq 50\Omega$)
- b) Pulse width:
100 ns 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:
120/240V
50-60 Hz



(A)

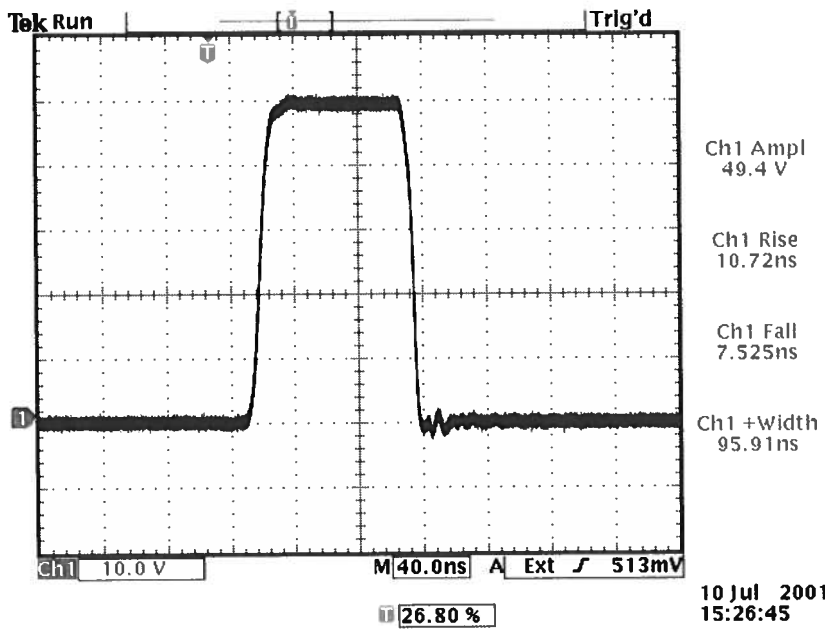
9894

$P_{out} = 1.0 \text{ mW}$

POS out

$Z_{out} = 50 \Omega$

$R_L = 50 \Omega$



(B)

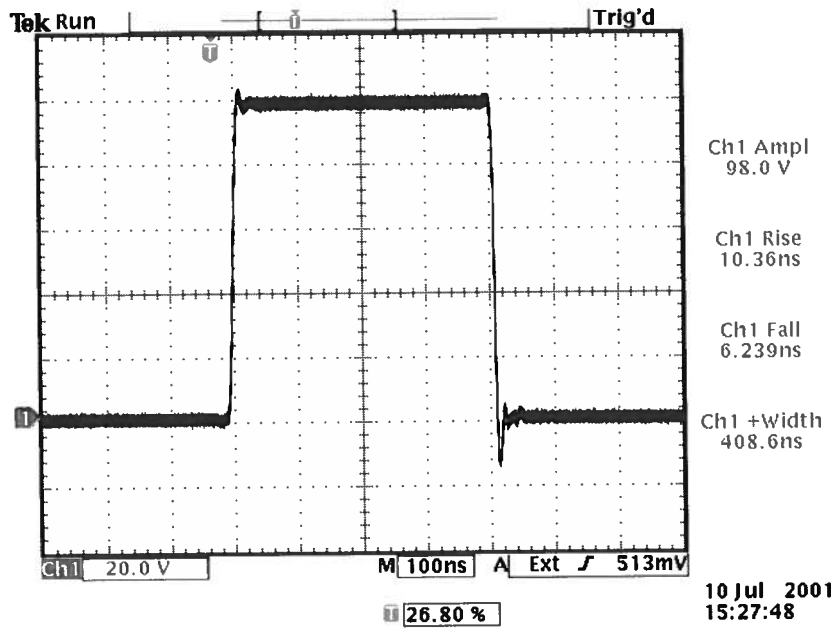
9894

PRT = 100 kHz

$Z_{out} = 2 \Omega$

$V_c = 50 \Omega$

POS OUT.



②

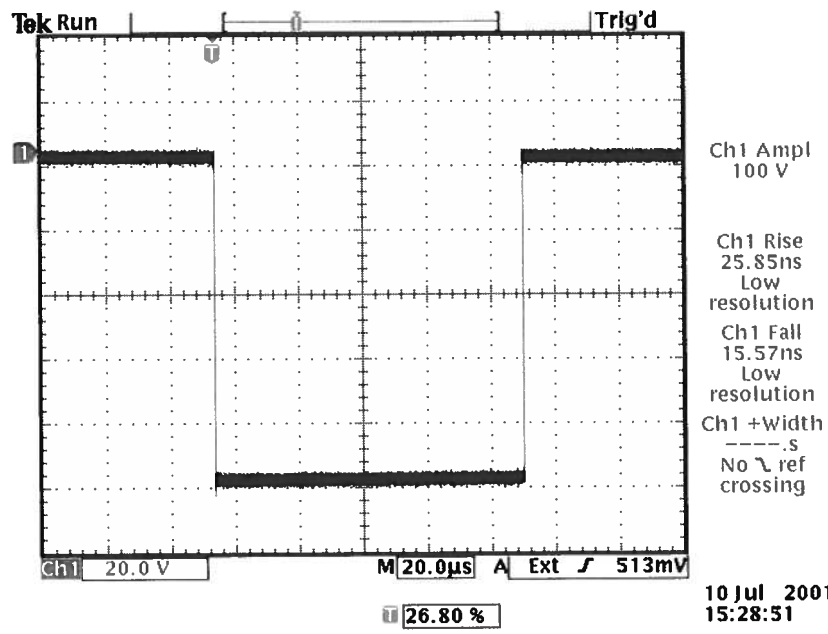
9894

PRF = 100 kHz

NEG out.

$Z_{out} = 2 \Omega$

$R_i = 50 \Omega$



①

9894 & AVX-MRB6.

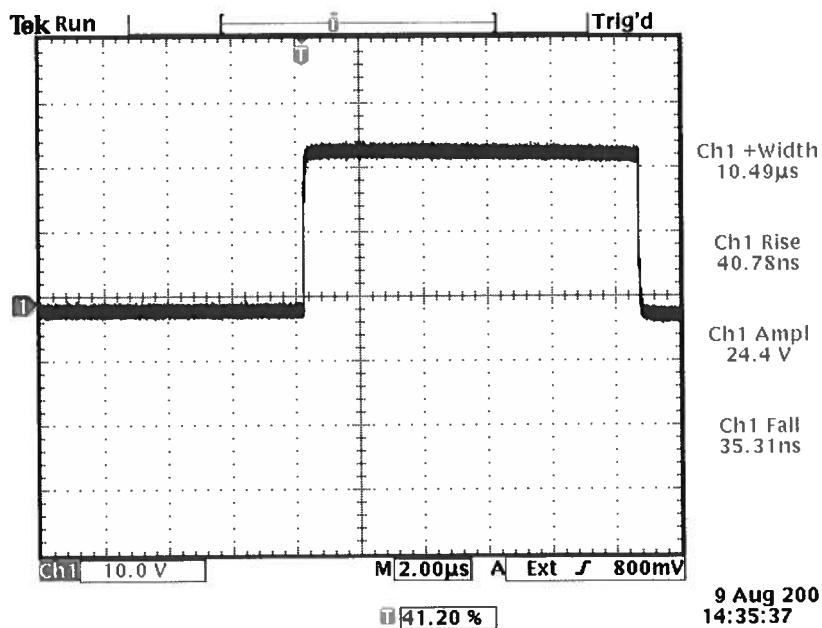
POS OUT

$F_{out} = 2 \text{ n}$

100 VOLTS IN.

$R_c = 3 \text{ n}$

(LOW VOLTAGE)





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"-B" Functional Test & Calibration Certificate

Date of test:	July 10, 2001				Tester:	MJC
Programmed model name:	AV-1011-B					
Programmed serial number:	9894					
Firmware revision:	2.26					
Internal trigger checked at:	1 Hz	100 Hz	1 kHz	10 kHz	1 MHz	
Actual measured output ¹ :	0.997 Hz	99.7 Hz	0.999 kHz	9.98 kHz	1.007 MHz	
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	1 ms	100 Hz, +100V	
Actual measured output ² :	98.7 ns	1.000 us	9.993 us	1.001 ms	to 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	100 Hz, +100V	
Actual measured output ¹ :	99.8 ns	0.998 us	9.993 us	1.002 ms	to 50 Ohms	
Double pulse checked:	yes					
Invert mode checked:	N/A					
ECL/TTL modes checked:	N/A					
Zout switch checked:	OK					
Amplitude checked at:	-10V	+20V	-50V	+100V	100 Hz, 10 us,	
Actual measured output ² :	-10.0V	+20.0V	-49.9V	+100V	to 50 Ohms	
Amplitude polarity:	+/-					
Zout calibration:	N/A					
Electronic amplitude control:	OK					
External amplify mode:	N/A					
Ultravolt flux removed:	OK					
Monitor V/I Ratio:	N/A			Monitor offset nulled:		
LCD Monitor calibrated:	N/A			Monitor offset nulled:		
Offset checked at:	N/A			Amplitude-dependent offset nulled:		
Actual measured output ² :	N/A			Amplitude-dependent offset nulled:		
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:	108B		
Overload Trigger Resistance:	Trips at:	N/A	Installed:	3.9k		
DC fuses:	Positive:	2A	Negative:	N/A		
AC Current at 115 VAC:	Quiescent:	0.45A	Max. Load:	0.86A		
AC fuse:	1A					
Photographed:	yes					

¹ Checked with: Fluke PM6681 Counter, referenced to Datum ExacTime 9390-6000 GPS Frequency Reference

² Checked with: Tektronix TDS3052 digital oscilloscope for PW ≥ 5 ns,
 Tektronix 7704A/7S11/7T11/S4 sampling oscilloscope system for PW < 5 ns.