PULSE GENERATOR

PERFORMANCE CHECK

Model: PR-1011-B

S.N.: 9909

Date: JULY 27 2001

a) Output signal amplitude:
0 TO ±100V ($R_L \geq 50\Omega$)

b) Pulse width:
100 NS TO 1 MS
(10% MAX DUTY CYCLE)

c) Rise time:
≤ 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.

(A)

9909

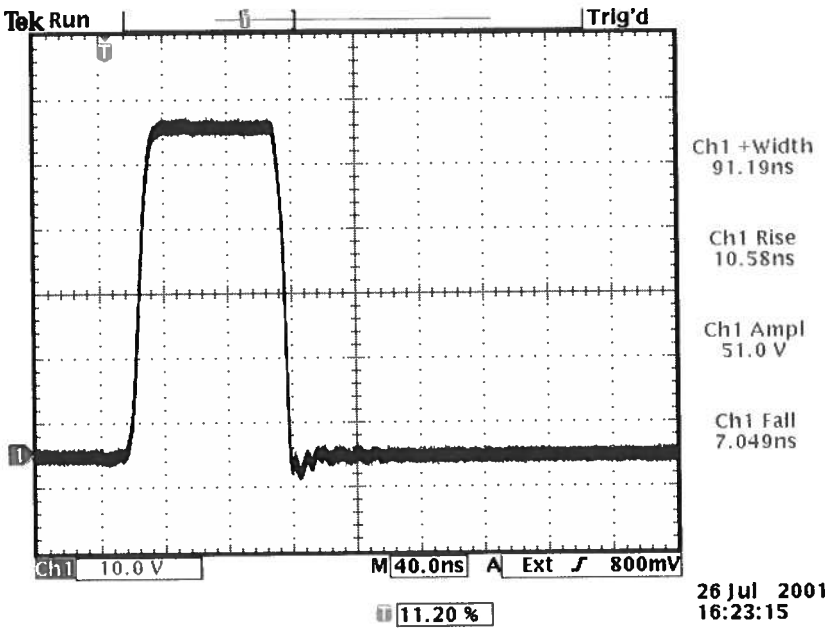
POS OUT

R_{OUT} = 50Ω

R_{COMP} = 50Ω

PRF = 1 MHz

(NARROW PULSE)



(B)

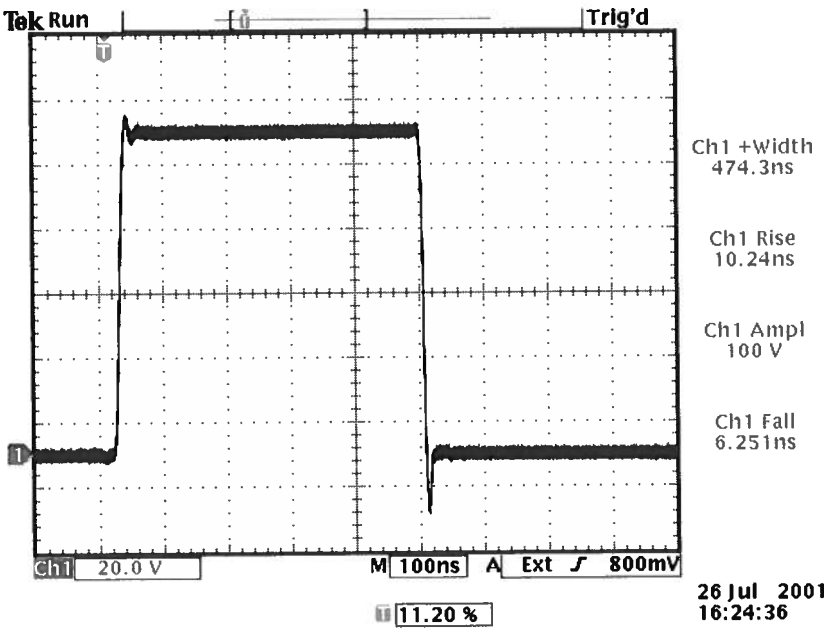
9909

POS out.

$R_{out} = 2\,\Omega$

$R_{comp} = 50\,\Omega$

PRF = 100KHz



(C)

9909

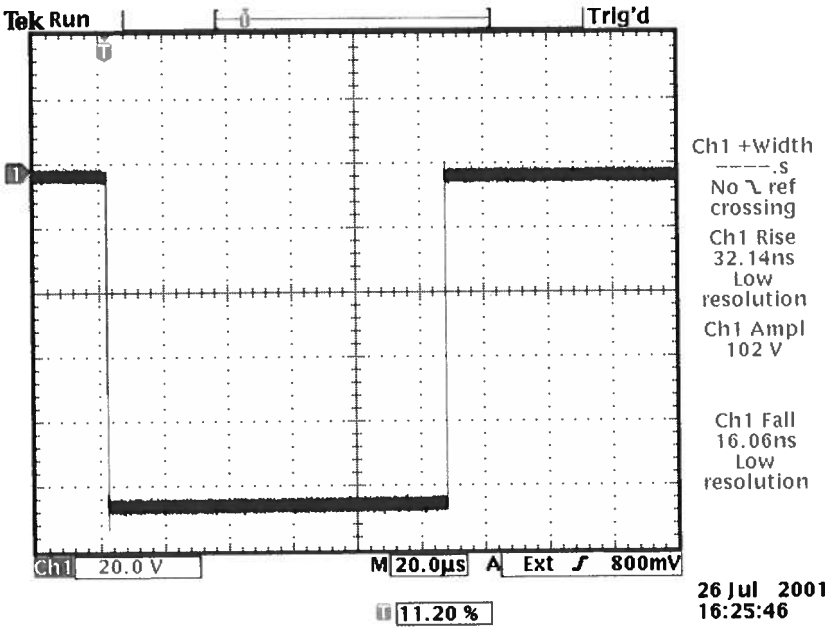
NEG OUT.

$R_{OUT} = 2\Omega$

$R_{LOAD} = 50\Omega$

PRF = 100 HZ

(WIDE PULSE)



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"-B" Functional Test & Calibration Certificate

Date of test:	July 12, 2001			Tester:	MJC
Programmed model name:	AV-1011-B				
Programmed serial number:	9909				
Firmware revision:	2.26				
Internal trigger checked at:	1 Hz	100 Hz	1 kHz	100 kHz	1 MHz
Actual measured output[1]:	0.997 Hz	99.6 Hz	0.997 kHz	100.3 kHz	1.008 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]:	98.9 ns	1.003 us	9.99 us	1.003 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]:	99.6 ns	0.997 us	9.992 us	1.003 ms	to 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	+20V	-50V	+100V	100 Hz, 10 us
Actual measured output[2]:	-10.04V	+20.0V	-50.2V	+100.0V	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				
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:	108B	
Overload Trigger Resistance:	Trips at:	N/A	Installed:	3.9K	
DC fuses:	Positive:	2A	Negative:	N/A	
AC Current at 115 VAC:	Quiescent:	0.44	Max. Load:	0.82A	
AC fuse:	1A				
Photographed:	no				

[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.