

PULSE GENERATOR  
PERFORMANCE CHECK

Model: MV-1011-B

S.N.: 9293

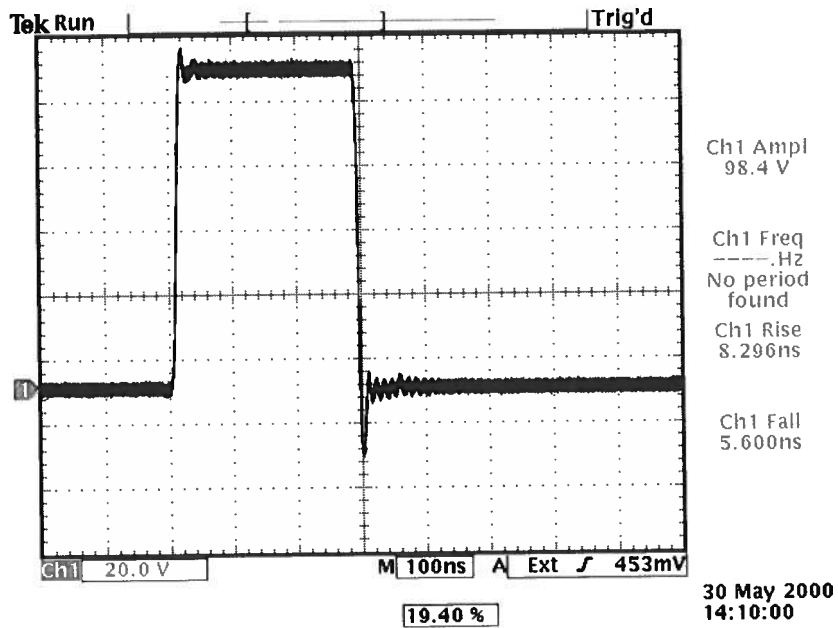
Date: MAY 30 2000

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

h) SPACE OUTPUT TRANSISTORS

TWO SPACE SLIST OUTPUT TRANSISTORS ARE MOUNTED ON TOP OF THE P6-P OUTPUT MODULE. THIS BECOMES VISIBLE IF THE TOP COVER OF THE INSTRUMENT IS REMOVED.

9293  
PRF = 100kHz  
Zout = 2  $\Omega$   
R<sub>L</sub> = 50  $\Omega$   
POS OUT.



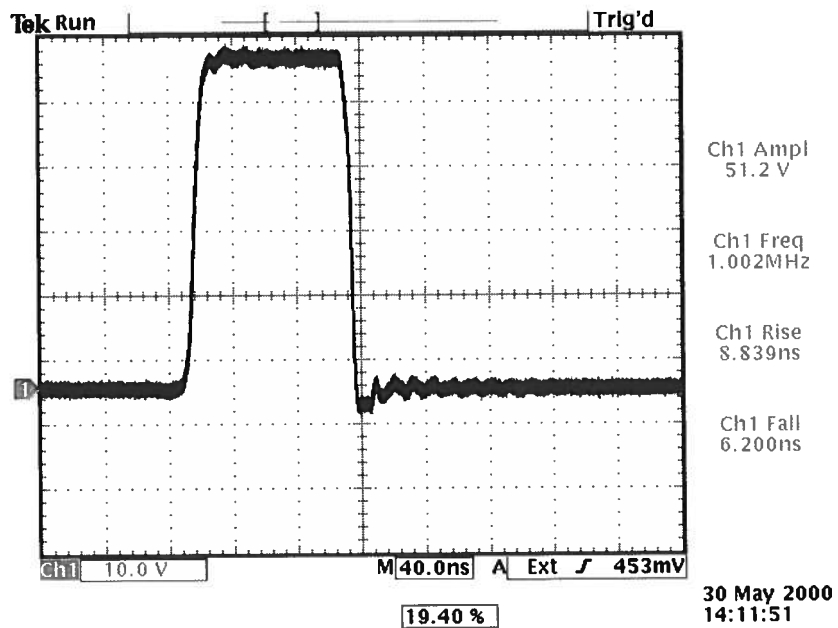
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PRF = 1.0 MHz

$Z_{out} = 50 \Omega$

$R_L = 50 \Omega$

Pos out.



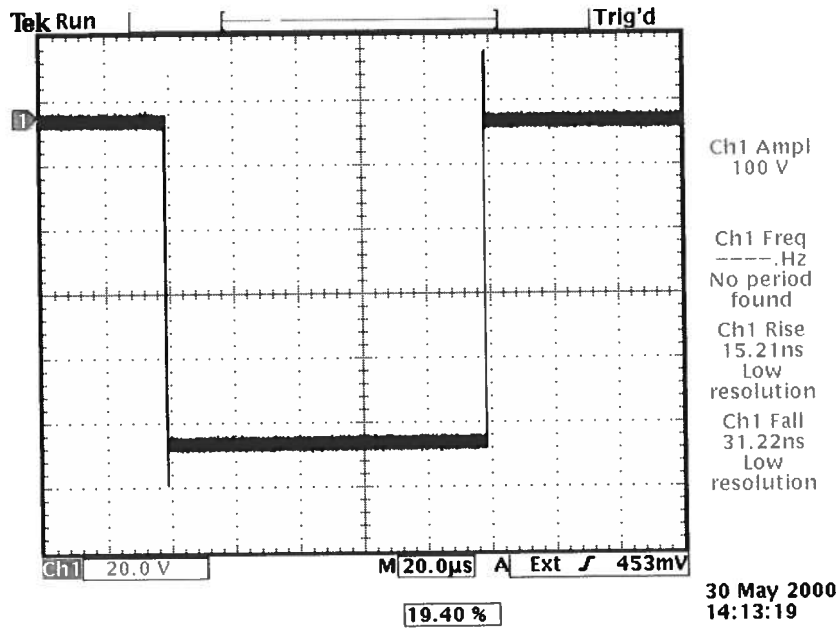
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PRF = 100 ~~Hz~~

$Z_{out} = 2 \Omega$

$R_L = 50 \Omega$

NEG OUT.





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## "-B" Functional Test & Calibration Certificate

Date of test:	May 30, 2000				Tester:	MJC
Programmed model name:	AV-1011-B					
Programmed serial number:	9293					
Firmware revision:	2.11					
Internal trigger checked at:	0.1 Hz	10 Hz	1 kHz	1 MHz		
Actual measured output <sup>1</sup> :	0.100 Hz	9.99 Hz	0.995 kHz	1.002 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 <sup>2</sup> :	98.8 ns	0.997 us	9.95 us	1.00 ms		
PWin = PWout mode checked:	yes				DC mode checked:	N/A
Duty Cycle Limit:	10%					
Delay nulled:	yes					
Delay checked at:	1 us	10 us	100 us	1 ms	10 Hz, +100V, to 50 Ohms	
Actual measured output <sup>1</sup> :	1.000 us	10.03 us	100.3 us	1.004 ms		
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	10 Hz, 10 us, to 50 Ohms	
Actual measured output <sup>2</sup> :	-9.92V	+19.8V	-49.2V	+100.0V		
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 <sup>2</sup> :	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:	0.84A		
AC fuse:	1A					
Photographed:	yes					

<sup>1</sup> Checked with: HP5370A Universal Time Interval Counter

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