

PULSE GENERATOR
PERFORMANCE CHECK

Model: AV-10.6B-B-PN-M.

S.N.: 9593

Date: JUN 18 2001

- a) Output signal amplitude:
0 TO ± 100 AMP
- b) Pulse width:
(TO ± 100 VPP)
2 TO 200 μ S
- c) Rise time:
(0.1% MAX OUTPUT CYCLE)
 ≤ 1 μ S
- d) Fall time:
 ≤ 1 μ S.
- e) PRF:
0 TO 100 Hz
(0.1% MAX OUTPUT CYCLE)
- f) Jitter, stability:
OK
- g) Prime power:

120/240 V
50-60 Hz.



Ⓐ

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P_{out}

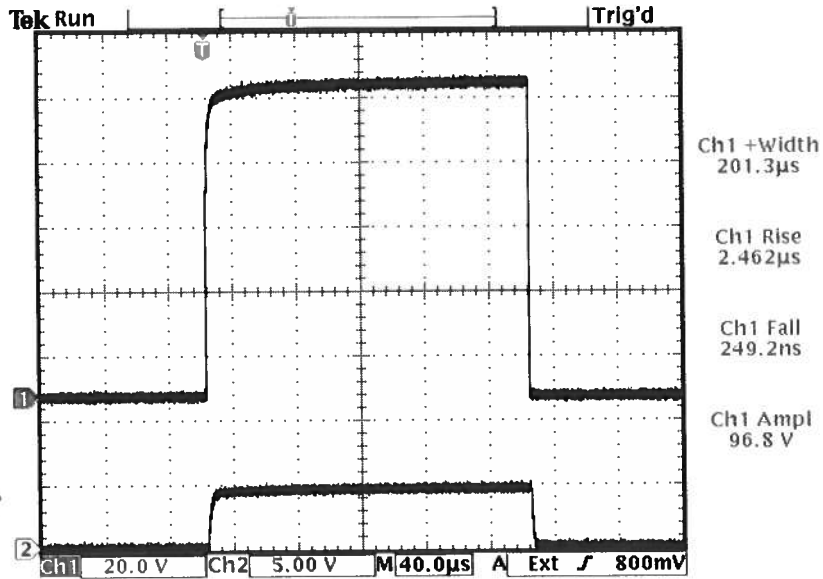
$R_L = 1 \Omega$

I_{out} NORMAL mA

PW NORMAL mA

V_{LOAD}

V_{MON}



25.80 %

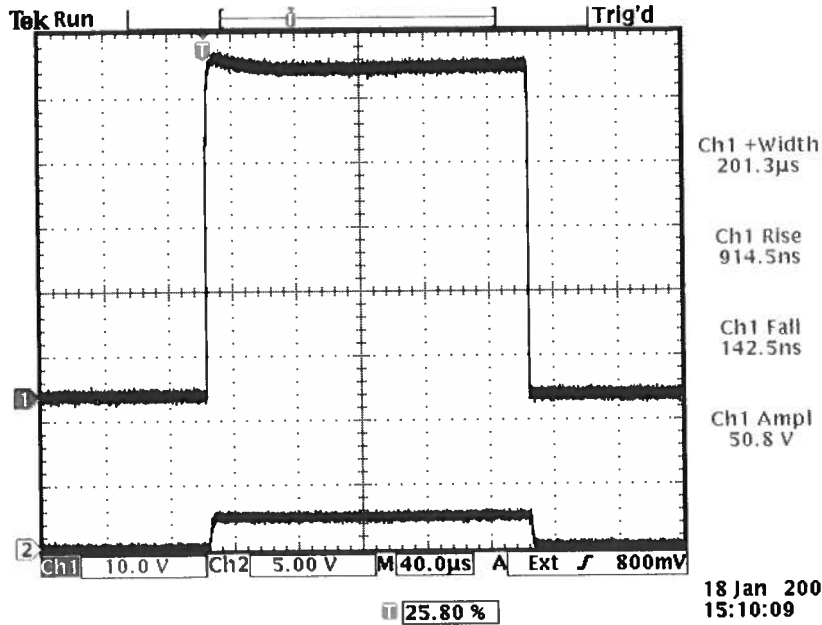
18 Jan 2001
15:07:44

(B)

AS (A) BUT
Iont REDUCED
TO \approx 50 AMPs

V_{LOAD}

V_{MON}



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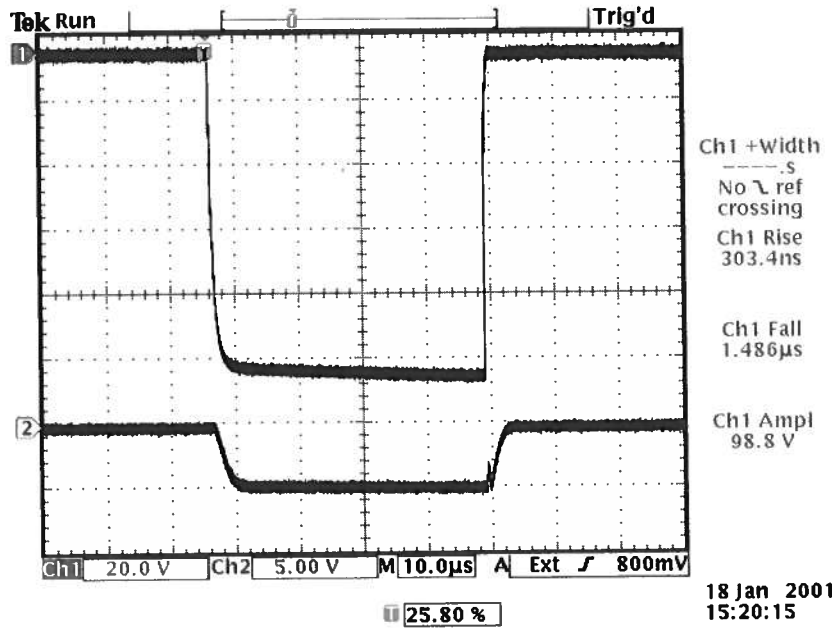
N_{out}

$R_L = 1\Omega$

I_{out} near I_{max}

V_{LOAD}

V_{MON}



(D)

9393

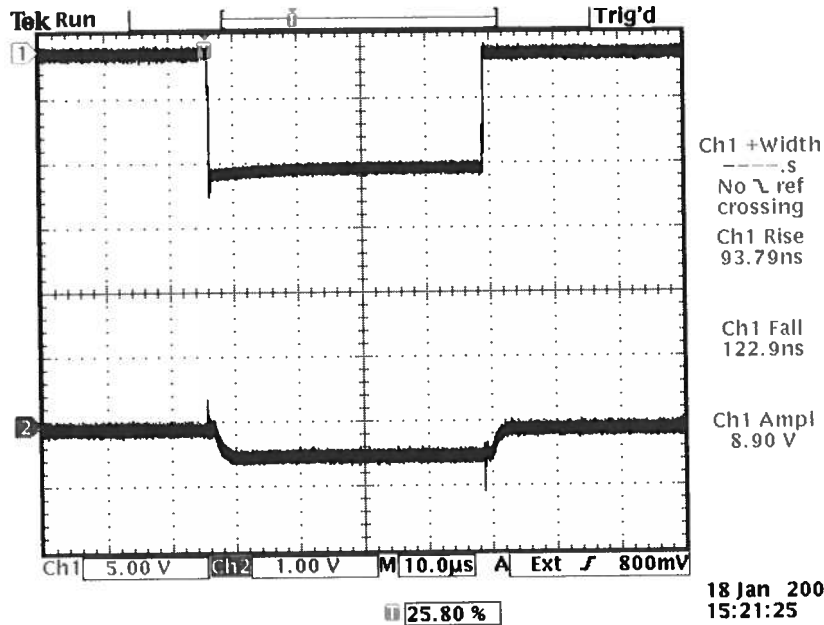
N_{out}

$R_L = 1\Omega$

$I_{out} \sim 0$ Amps.

V_{LOAD}

V_{MON}





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"-B" Functional Test & Calibration Certificate

Date of test:	January 17, 2001				Tester:	MJC
Programmed model name:	AV-106B-B-M-PN					
Programmed serial number:	9593					
Firmware revision:	2.22					
Internal trigger checked at:	1 Hz	10 Hz	100 Hz			
Actual measured output ¹ :	1.000 Hz	9.98 Hz	99.8 Hz			
External trigger checked:	yes			Gate checked:	yes	
Trigger load resistor present:	yes					
Manual trigger checked:	yes					
Pulse compression checked:	yes	Low Amplitude PW Distortion Nulled:			N/A	
Pulse width checked at:	2 us	20 us	50 us	200 us	5 Hz, +100A, into 1 Ohm	
Actual measured output ² :	2.02 us	20.1 us	50.4 us	202 us		
PWin = PWout mode checked:	yes	DC mode checked:			N/A	
Duty Cycle Limit:	0.1%					
Delay nulled:	N/A					
Delay checked at:	20 us	50 us	100 us	200 us	10 Hz, +100A, into 1 Ohm	
Actual measured output ¹ :	20.4 us	50.7 us	100.3 us	201.4 us		
Double pulse checked:	N/A					
Invert mode checked:	N/A					
ECL/TTL modes checked:	N/A					
Zout switch checked:	N/A					
Amplitude checked at:	-10A	+10A	-100A	+100A	10 Hz, 50 us, into 1 Ohm	
Actual measured output ² :	-9.9A	+10.1A	-100.4A	+100.8A		
Amplitude polarity:	+/-					
Zout calibration:	N/A					
Electronic amplitude control:	N/A					
External amplify mode:	N/A					
Ultravolt flux removed:	N/A					
Monitor V/I Ratio:	0.05 V/A	Monitor offset nulled:			yes	
LCD Monitor calibrated:	yes	Monitor offset nulled:			N/A	
Mon. Single Pulse/Min PW OK:	for > 20 us PW	SHA Cap:			0	
Offset checked at:	N/A	Amplitude-dependent offset nulled:				
Actual measured output ² :	N/A					
Offset nulled (output on):	N/A					
Offset nulled (output off):	N/A					
RS-232 checked:	yes					
Sync pulse width checked:	200 ns					
Circuit Boards:	PS:	93	Main:	108B		
Overload Trigger Resistance:	Trips at:	N/A	Installed:	8.2 k		
DC fuses:	Positive:	1A	Negative:	N/A		
AC Current at 115 VAC:	Quiescent:	0.72A	Max. Load:	1.00A		
AC fuse:	1.5A					
Photographed:	yes					

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

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