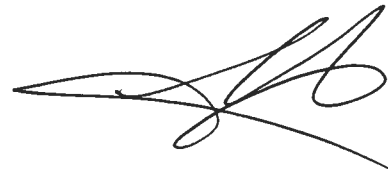


PULSE GENERATOR
PERFORMANCE CHECK

Model: *AVO-8A-B-N*
S.N.: *9539*
Date: *NOV 8 2000*

- a) Output signal amplitude:
0 TO -40 VOLTS TO
- b) Pulse width:
Region (40 μ MS)
2 μ S TO 20 μ S
- c) Rise time: *(+ TO DC)*
 $\leq 0.5 \mu$ S
- d) Fall time:
 $\leq 0.5 \mu$ S
- e) PRF: *0 TO 1 KHz.*
- f) Jitter, stability:
OK
- g) Prime power:
120/240 V
50-60 Hz



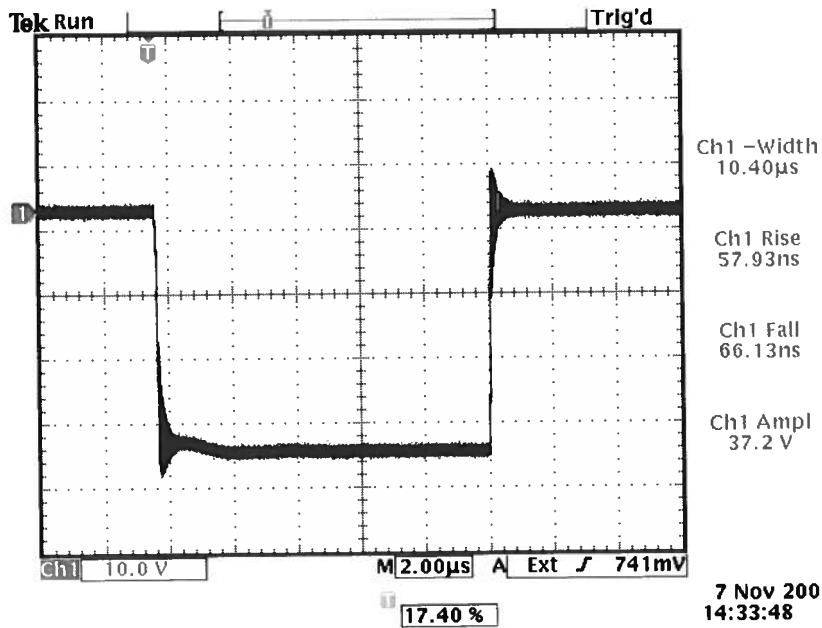
9539

SHORT PULSE

$R_L = 1.0 \Omega$

(NON INDUCTIVE)

LOAD VOLTAGE



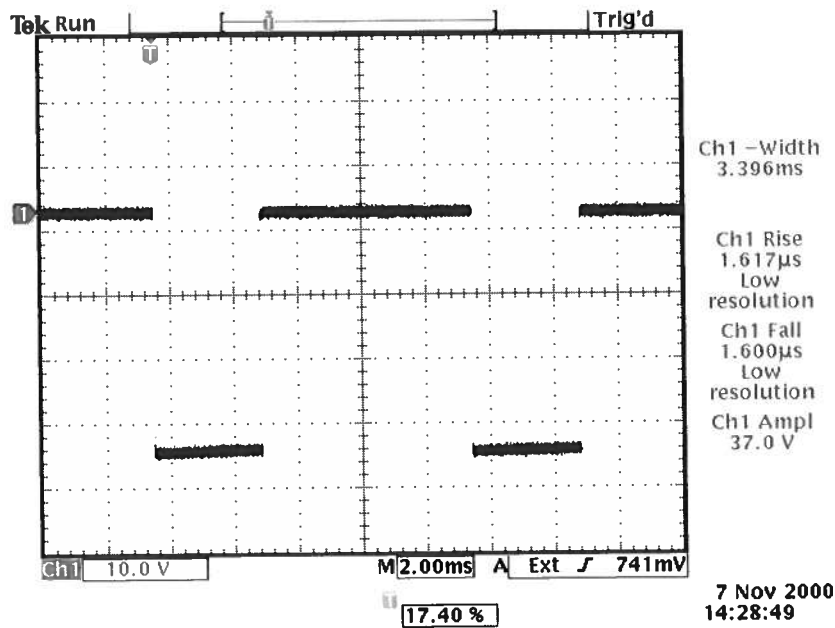
t_R, t_F
 $\leq 0.5 \mu s$

9539

HIGH DUTY CYCLE,
WIDE PULSE.

$R_L = 1.0 \Omega$

LOAD VOLTAGE

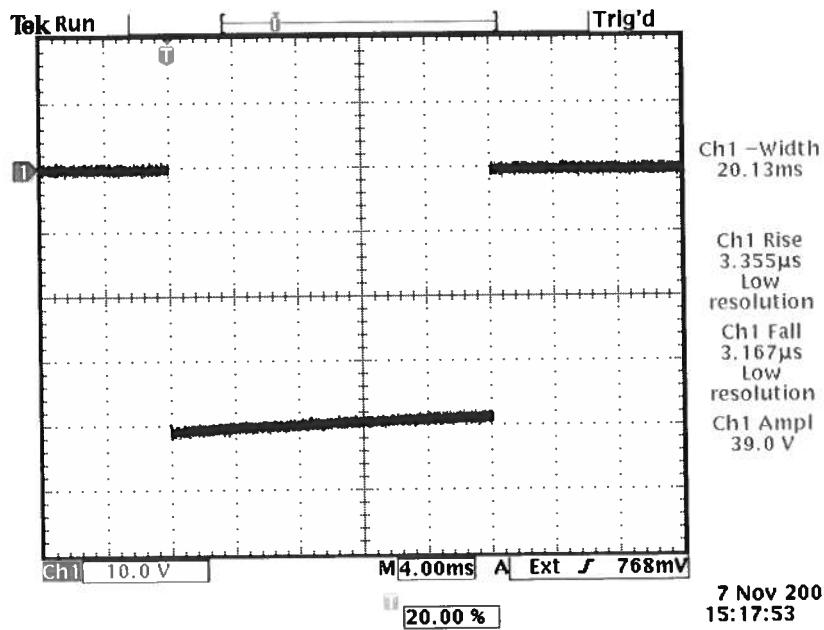


9539

VERY WIDE PULSE

$R_L = 1.0 \Omega$

LOAD VOLTAGE





P.O. BOX 265
 OGDENSBURG, NY
 U.S.A. 13669-0265
 TEL: (315) 472-5270
 FAX: (613) 226-2802

TEL: 1-800-265-6681
 FAX: 1-800-561-1970

e-mail: info@avtechpulse.com
 http://www.avtechpulse.com

P.O. BOX 5120 STN. F
 OTTAWA, ONTARIO
 CANADA K2C 3H4
 TEL: (613) 226-5772
 FAX: (613) 226-2802

"-B" Functional Test & Calibration Certificate

Date of test:	November 7, 2000				Tester:	MJC
Programmed model name:	AVO-8A-B-N					
Programmed serial number:	9539					
Firmware revision:	2.22					
Internal trigger checked at:	0.1 Hz	1 Hz	10 Hz	100 Hz	1000 Hz	
Actual measured output ¹ :	0.0998 Hz	1.000 Hz	10.01 Hz	100.1 Hz	1001 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	2 ms	20 ms	-40V into 1 Ohm, 10 Hz	
Actual measured output ² :	2.0 us	20.0 us	2.01 ms	20.1 ms		
PWin = PWout mode checked:	yes			DC mode checked:	yes	
Duty Cycle Limit:	100%					
Delay nulled:	N/A					
Delay checked at:	20 us	200 us	2 ms	20 ms	10 Hz, Trig to Sync delay	
Actual measured output ¹ :	20.1 us	201 us	2.02 ms	20.2 ms		
Double pulse checked:	N/A					
Invert mode checked:	N/A					
ECL/TTL modes checked:	N/A					
Zout switch checked:	N/A					
Amplitude checked at:	N/A					
Actual measured output ² :	N/A					
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:	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:	200 ns					
Circuit Boards:	PS:	93	Main:	108		
Overload Trigger Resistance:	Trips at:	N/A	Installed:	N/A		
DC fuses:	Positive:	N/A	Negative:	N/A		
AC Current at 115 VAC:	Quiescent:	0.49A	Max. Load:	0.52A		
AC fuse:	1A					
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.