PULSE GENERATOR

PERFORMANCE CHECK

Model: AVO-8C-B-PN

S.N.: 9880

Date: JULY 30 2001

a) Output signal amplitude:
0 TO ± 40 VOLTS
(± 200 AMPS MAX)

b) Pulse width:
2 uS TO 20 mS
(+ DC)

c) Rise time:
≤ 1 uS

d) Fall time:
≤ 1 uS

e) PRF:
0 TO 1 KHz.

f) Jitter, stability:
OK

g) Prime power:
a) 120/240V, 50-60 Hz.

b) 0 TO ± 40 VDC
= 10 TO 100 AMP
DC SUPPLY.

(A)

9880

P OUT.

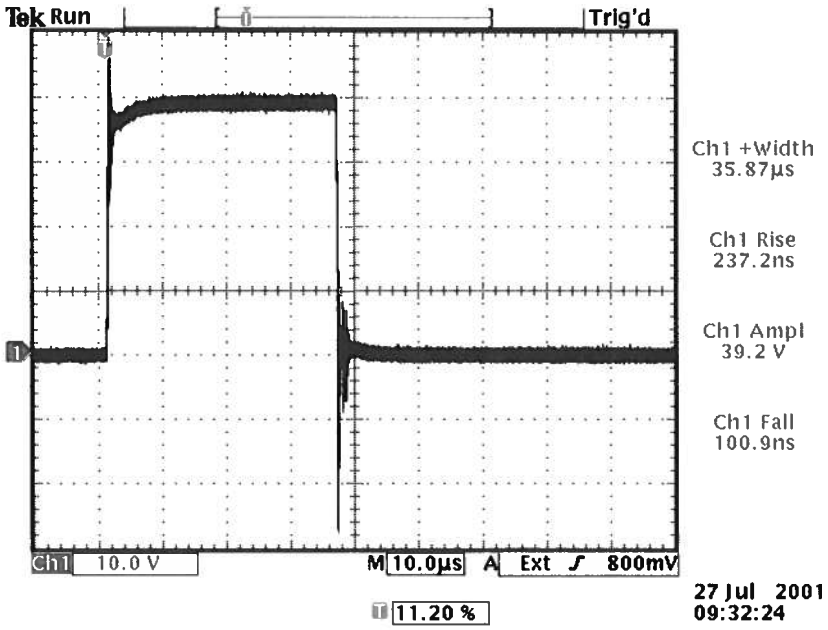
NARROW PULSE.

$R_L \simeq 0.2\ \Omega$

$V_{DC} \simeq +40\ V.$

PRF = 1 KHz

LOAD VOLTAGE



(B)

9880

P OUT

WIDE PULSE

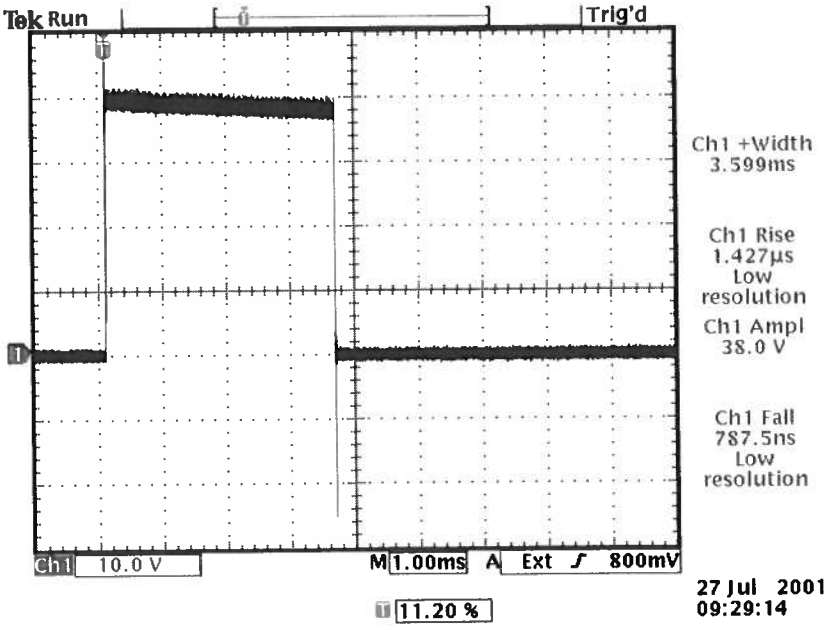
$R_L = 0.2\Omega$

$V_{DC} \sim +40V$

DUTY CYCLE $\simeq$ 33%

$\bar{I}$ = 70 AMPS.

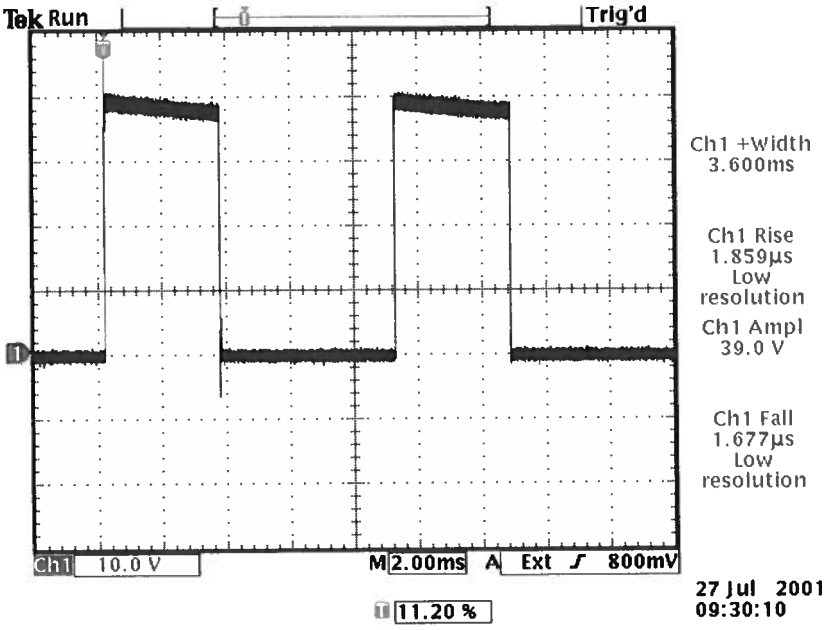
LOAD VOLTAGE.



C

9880

MS (B) BUT 2.0 MS/DIV.



(D)

9980

N OUT.

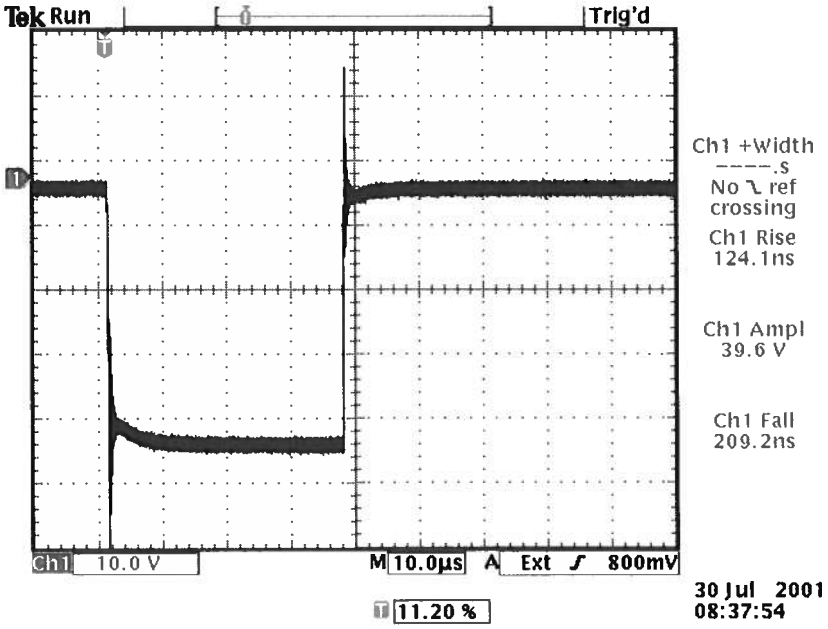
NARROW PULSE

$R_L = 0.2\,\Omega$

$V_{DC} \simeq -40V$

PRF $\simeq$ 1 KHz

200 VOLTAGE



(E)

9880

N out.

WIDE PULSE

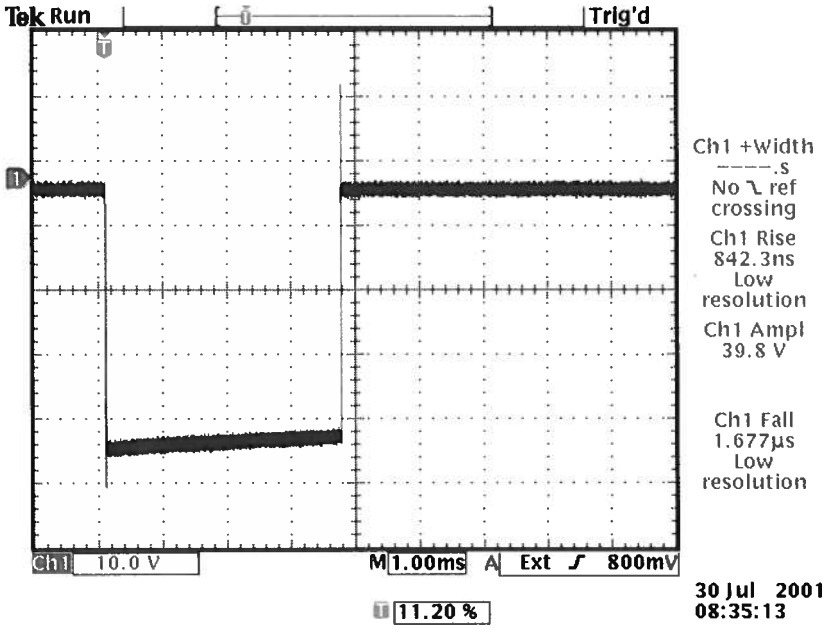
$R_L = 0.2\Omega$

$V_{DC} = -40V$

DUTY CYCLE ≈ 33%

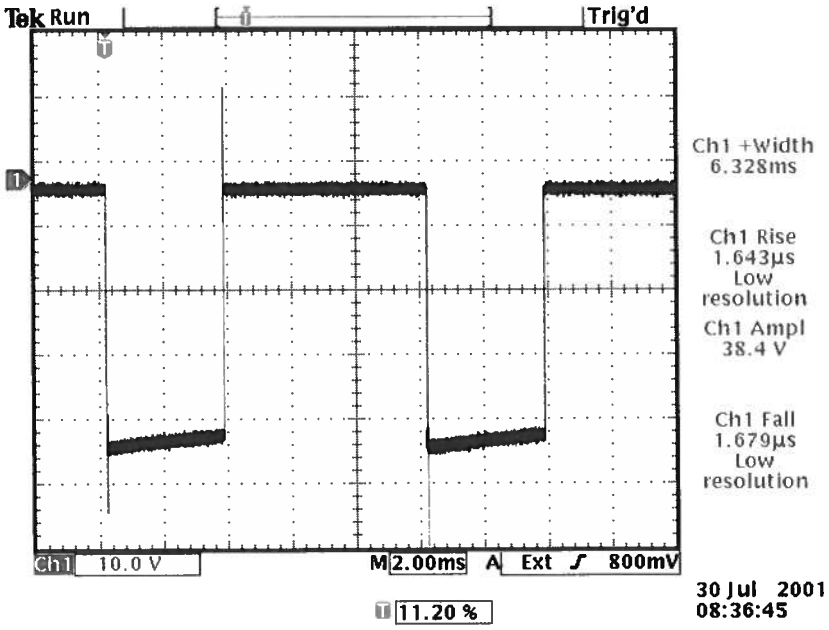
$\bar{I} = 70$ amp

LOAD VOLTAGE.



(D) 9880

AS (E) BUT 2.0 MS/DIV.



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"-B" Functional Test & Calibration Certificate

Date of test:	July 30, 2001			Tester:	MJC
Programmed model name:	AVO-8C-B-PN				
Programmed serial number:	9880				
Firmware revision:	2.26				
Internal trigger checked at:	1 Hz	10 Hz	100 Hz	1 kHz	
Actual measured output[1]:	1.003 Hz	10.03 Hz	100.1 Hz	1.001 kHz	
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:	2 us	200 us	2 ms	20 ms	10 Hz, at TTL
Actual measured output[2]:	2.022 us	201.5 us	2.014 ms	20.11 ms	trigger point
PWin = PWout mode checked:	yes			DC mode checked:	yes
Duty Cycle Limit:	100%				
Delay nulled:	yes				
Delay checked at:	2 us	200 us	2 ms	20 ms	10 Hz, at TTL
Actual measured output[1]:	2.019 us	201.1 us	2.013 ms	20.11 ms	trigger point
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:	
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:	yes				
Circuit Boards:	PS:	93	Main:	108B	
Overload Trigger Resistance:	Trips at:	N/A	Installed:	N/A	
DC fuses:	Positive:	N/A	Negative:	N/A	
AC Current at 115 VAC:	Quiescent:	0.43A (no PG)	Max. Load:	N/A	
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.