PULSE GENERATOR

PERFORMANCE CHECK

Model: AV0-8A-B-N-M

S.N.: 10003

Date: NOV 21 2001

a) Output signal amplitude:
0 TO -40 VOLTS TO
$R_L \geq 1k\Omega$ (40 mA)

b) Pulse width:
2 uS TO 1 SECOND
(OR DC)

c) Rise time:
≤ 0.5 uS

d) Fall time:
≤ 0.5 uS

e) PRF:
0 TO 1 KHz.

f) Jitter, stability:
OK

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

b) 0 TO -42 VOLTS, 40 AMP DC LAB POWER SUPPLY.

(14)

10003

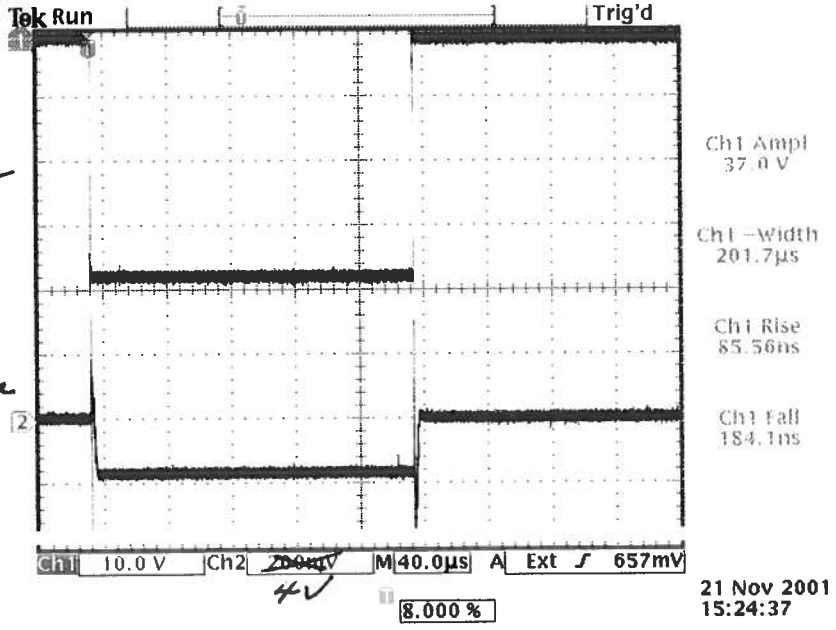
NARROW PULSE, LOW DUTY CYCLE

$R_L \simeq 1.0\ \Omega$

$V_{DC} \simeq 38$ VOLTS.

LOAD VOLTAGE

MONITOR OUT



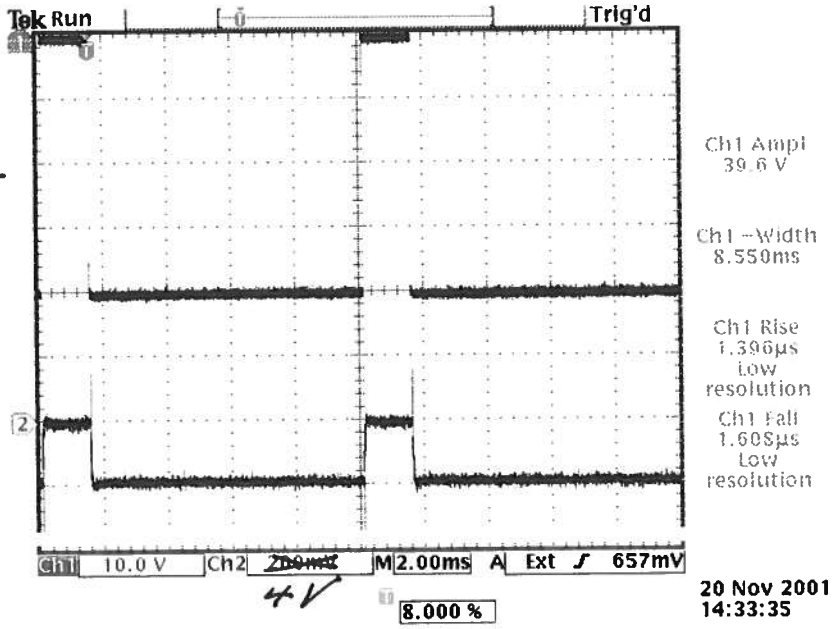
(B)

10003

WIDE PULSE, HIGH DUTY CYCLE

$R_L = 1.0\,\Omega$

$V_{DC} = 40$ VOLTS



LOAD VOLTAGE

MONITOR OUT

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"-B" Functional Test & Calibration Certificate

Date of test:	November 21, 2001			Tester:	MJC
Programmed model name:	AVO-8A-B-N-M				
Programmed serial number:	10003				
Firmware revision:	2.31				
Internal trigger checked at:	1 Hz	10 Hz	100 Hz	1 kHz	
Actual measured output[1]:	0.997 Hz	9.93 Hz	99.2 Hz	0.994 kHz	
External trigger checked:	yes			Gate checked:	yes
Manual trigger checked:	yes				
Pulse compression checked:	yes	Low Amplitude PW Distortion Nulled:			
Pulse width checked at:	2 us	200 us	2 ms	200 ms	2 Hz, at TTL
Actual measured output[2]:	2.015 us	201.2 us	2.016 ms	201.2 ms	trigger point
PWin = PWout mode checked:	yes			DC mode checked:	yes
Duty Cycle Limit:	N/A				
Delay nulled:	yes				
Delay checked at:	2 us	200 us	2 ms	200 ms	2 Hz, at TTL
Actual measured output[1]:	2.011 us	201.1 us	2.011 ms	200.9 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:	negative				
Zout calibration:	N/A				
Electronic amplitude control:	N/A				
External amplify mode:	N/A				
Ultravolt flux removed:	N/A				
Monitor V/I Ratio:	0.1 V/A			Monitor offset nulled:	yes
LCD Monitor calibrated:	yes			Monitor offset nulled:	N/A
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:	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:	0.39A (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.