

PULSE GENERATOR
PERFORMANCE CHECK

Model: *AVO-3D-B-P-NASA1*

S.N.: *9706*

Date: *APRIL 19 2000*

- a) Output signal amplitude:
0 TO + 250 AMP
- b) Pulse width:
5 μ S TO 1.2 MS
- c) Rise time:
 $\leq 2 \mu$ S
- d) Fall time:
 $\leq 2 \mu$ S
- e) PRF: *0 TO 10 KHZ.*
- f) Jitter, stability:
OK
- g) Prime power:
 - a) *120/240 V*
50-60 HZ
 - b) *0 TO + 50 VDC,*
5 AMP. LAB
POWER SUPPLY.
- b) MAX DUTY CYCLE:
1.25%
- c) COOLING *SELF COOLING*
FAN + TAP
WATER COOLING.

[Signature]

9706

$$R_c \approx 0.155 \Omega$$

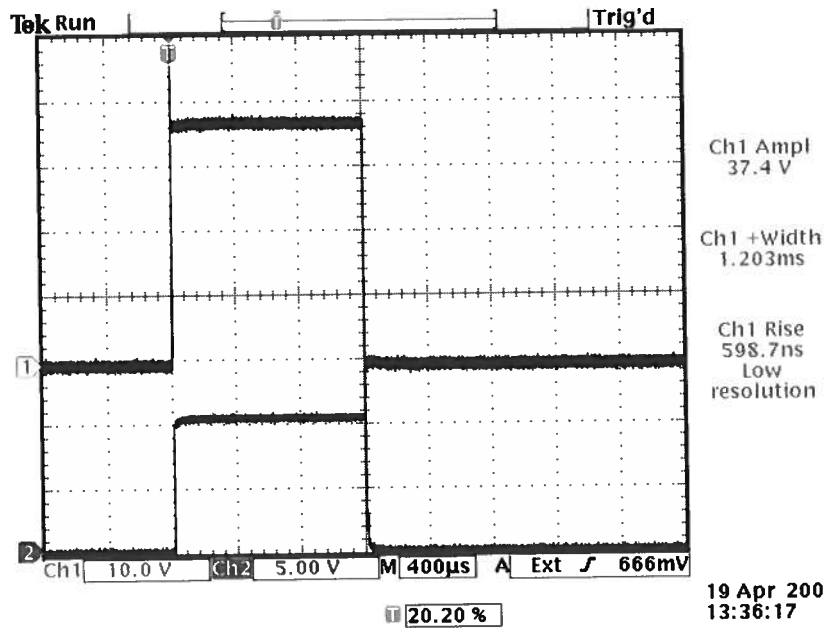
$$V_{\text{LAB POWER SUPPLY}} \approx 50 \text{ VOLTS.}$$

$$PW \approx 1.2 \text{ ns}$$

$$PRF \approx 10 \text{ Hz.}$$

LOAD
VOLTAGE

MONITOR
VOLTAGE





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"-B" Functional Test & Calibration Certificate

Date of test:	April 19, 2001				Tester:	MJC
Programmed model name:	AVO-8D-B-P-NASA1					
Programmed serial number:	9706					
Firmware revision:	2.24					
Internal trigger checked at:	0.1 Hz	1 Hz	10 Hz			
Actual measured output ¹ :	0.100 Hz	1.005 Hz	10.04 Hz			
External trigger checked:	yes			Gate checked:	yes	
Manual trigger checked:	yes					
Pulse compression checked:	N/A	Low Amplitude PW Distortion Nulled:			N/A	
Pulse width checked at:	5 us	100 us	1.2 ms		TTL trigger	
Actual measured output ² :	5.05 us	99.8 us	1.202 ms			
PWin = PWout mode checked:	yes			DC mode checked:	N/A	
Duty Cycle Limit:	1.25%					
Delay nulled:	N/A					
Delay checked at:	20 us	200 us	2 ms	20 ms	TTL trig to SYNC out	
Actual measured output ¹ :	20.15 us	200.3 us	2.01 ms	20.05 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					
Ultraviolet flux removed:	N/A					
Monitor V/I Ratio:	0.05 V/A		Monitor offset nulled:		N/A	
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.