

PULSE GENERATOR  
PERFORMANCE CHECK

Model: *AVD-BA-B-N*

S.N.: *10097*

Date: *MAR 11 2002*

- a) Output signal amplitude:  
*0 TO -40 VOLTS TO  $\mu$ z/2*
- b) Pulse width:  
*(40 AMPs limit)  
2  $\mu$ S TO 20 ms*
- c) Rise time:  
*(+ 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:  
*a) 120/240 V  
50-60 Hz.*

*[Signature]*

*3) 0 TO -40 V,  
40 AMP LAB  
POWER SUPPLY.*

(A)

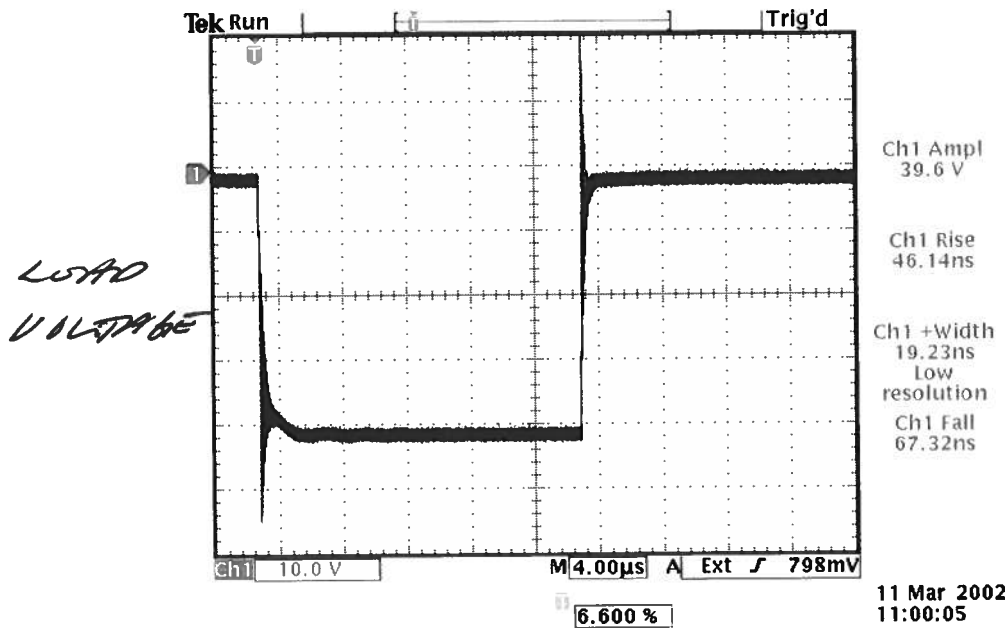
10097

NARROW PULSE

$R_L = 1.0 \Omega$

$V_{LMS PS} = -40 \text{ VOLTS}$

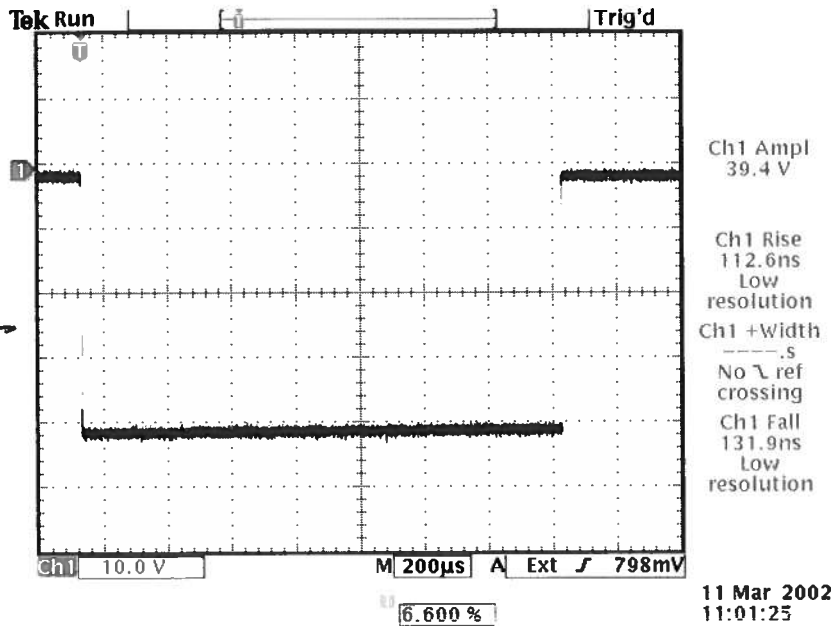
$f_{PF} \approx 1 \text{ KHz}$



(B)

10097  
WIDE PULSE  
 $R_L = 1.0 \Omega$   
 $V_{LOAD} \approx -40 \text{ VOLTS}$   
 $PRF \approx 10 \text{ kHz}$

LOAD  
VOLTAGE





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## "-B" Functional Test & Calibration Certificate

Date of test:	March 11, 2002				Tester:	MJC
Programmed model name:	AVO-8A-B-N					
Programmed serial number:	10097					
Firmware revision:	2.36					
Temp, RH:	24.4°C, 19.6%					
Internal trigger checked at:	1 Hz	10 Hz	100 Hz	1 kHz		
Actual measured output <sup>1</sup> :	1.003 Hz	10.03 Hz	100.4 Hz	1.002 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	20 us	200 us	2 ms	1 Hz, -20V to	
Actual measured output <sup>2</sup> :	2.04 us	20.2 us	201.3 us	2.01 ms	0.5 Ohms	
PW <sub>in</sub> = PW <sub>out</sub> mode checked:	yes	DC mode checked:				yes
Duty Cycle Limit:	N/A					
Delay nulled:	yes					
Delay checked at:	100 ns	10 us	1 ms	100 ms	1 Hz, -20V to	
Actual measured output <sup>1</sup> :	101 ns	10.0 us	1.00 ms	100.2 ms	0.5 Ohms	
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 <sup>2</sup> :	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					
Offset checked at:	N/A					
Actual measured output <sup>2</sup> :	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:	0.53A	Max. Load:	0.56A		
AC fuse:	1A					
120/240V operation:	OK					
Photographed:	yes					

<sup>1</sup> Checked with: Fluke PM6681 Counter (S/N 9446 066 81016), referenced to Datum Exactime 9390-6000 (S/N 4461) GPS Frequency Reference

<sup>2</sup> Checked with: Tektronix TDS3052 digital oscilloscope (S/N B014783) for PW ≥ 5 ns, Tektronix 7704A/7S11/7T11/S4 sampling oscilloscope system (Cal. Label 112506) for PW < 5 ns.