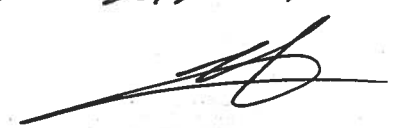


PULSE GENERATOR
PERFORMANCE CHECK

Model: *AVO-3C-B-M-N*
S.N.: *10218*
Date: *MAY 24 2002*

- a) Output signal amplitude:
*0 TO -40 VOLTS TO $R_L \geq 0.25$
(200 AMP MAX)*
- b) Pulse width:
2 μ S TO 20 MS & DC
- c) Rise time:
 $\leq 1.0 \mu$ S
- d) Fall time:
 $\leq 1.0 \mu$ S
- e) PRF: *0 TO 1 KHz*
- f) Jitter, stability:
OK
- g) Prime power:
*A) 120/240V, 50 to 60 Hz
B) 0 TO -40 VDC,
100 AMP LAB
POWER SUPPLY.*



(A)

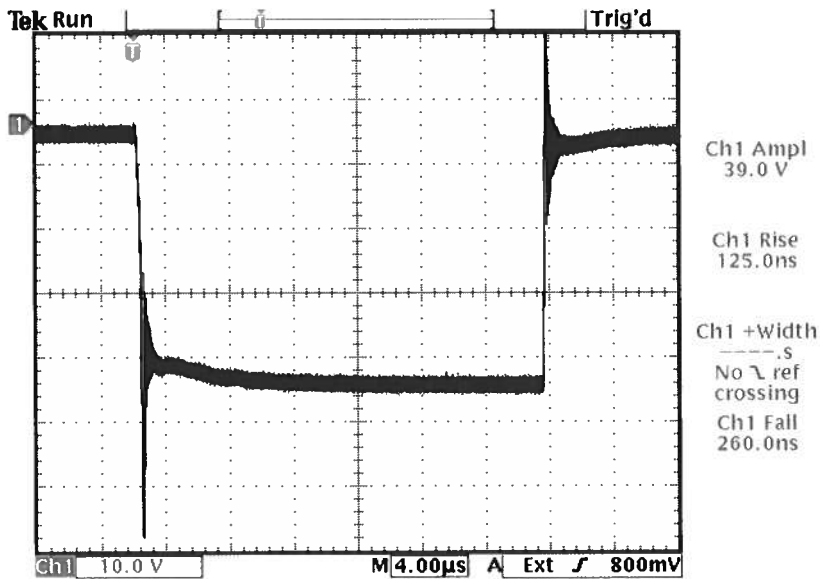
10218
NARROW PULSE

$$R_i = 0.2 \Omega$$

LOAD VOLTAGE

$$V_{DC} \approx -40 \text{ VOLTS}$$

$$PRT = 1 \text{ KHz}$$



15.20 %

24 May 2002
12:52:27

(B)

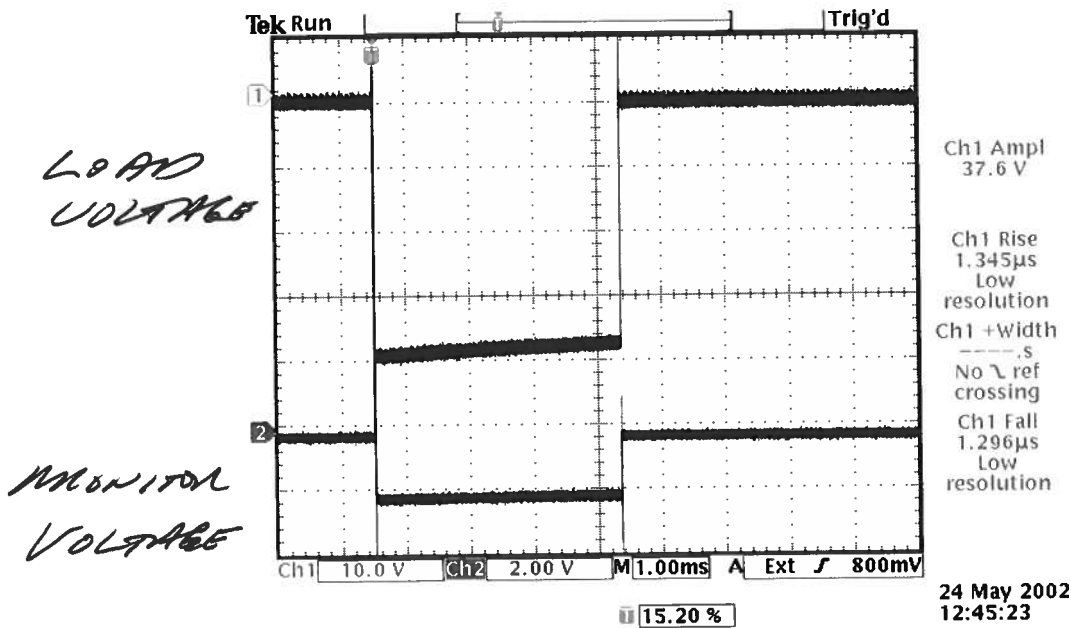
10218

WIDE PULSE, HALF DUTY CYCLE

$$R_L = 0.2 \Omega$$

$$PRF \approx 100 \text{ Hz}$$

$V_{DC} = -40 \text{ VOLTS}$ 70 AMP SUPPLY.





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

TEL: 1-800-265-6681
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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:	May 24, 2002				Tester:	MJC	
Programmed model name:	AVO-8C-B-N-M						
Programmed serial number:	10218						
Firmware revision:	2.40						
Temp, RH:	25.6°C, 27.2%						
Internal trigger checked at:	1 Hz	10 Hz	100 Hz	1 kHz			
Actual measured output ¹ :	1.001 Hz	10.00 Hz	99.9 Hz	0.999 kHz			
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:	2 us	20 us	200 us	2 ms	1 Hz, 40V to		
Actual measured output ² :	1.93 us	20.04 us	201.1 us	2.005 ms	0.2 Ohms		
PW _{in} = PW _{out} mode checked:	yes					DC mode checked:	yes
Duty Cycle Limit:	N/A						
Delay nulled:	yes, at TTL trigger point						
Delay checked at:	2 us	20 us	200 us	2 ms	10 Hz		
Actual measured output ¹ :	2.01 us	20.1 us	201.1 us	2.01 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:	negative						
Zout calibration:	N/A						
Electronic amplitude control:	N/A						
External amplify mode:	N/A						
Ultravolt flux removed:	N/A						
Monitor V/I Ratio:	1V / 100A	Monitor offset nulled:				N/A	
LCD Monitor calibrated:	yes						
Offset checked at:	N/A						
Actual measured output ² :	N/A						
Offset nulled (output on):	N/A						
Offset nulled (output off):	N/A						
RS-232 checked:	yes						
LCD pull-ups installed:	yes						
Sync pulse width checked:	yes, 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:	0.39 A	Max. Load:	N/A			
AC fuse:	1 A						
120/240V operation:	OK	Fan operational:				yes	
Photographed:	yes						

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

² 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.