

PULSE GENERATOR
PERFORMANCE CHECK

Model: *AV02-A4-B-N-15LA*

S.N.: *10684*

Date: *SEPT 30 2003*

- a) Output signal amplitude:
0 TO 100 V TO
- b) Pulse width:
R_L > 0.833 Ω (120 AMP MAX)
1 TO 10 μ S
- c) Rise time:
 ≤ 100 NS
- d) Fall time:
 ≤ 100 NS
- e) PRF: *0 TO 10 KHz.*
- f) Jitter, stability: *OK.*
- g) Prime power: *120/240V*
50-60 Hz.
- h) DUTY CYCLE MAX:
0.49.
- i) MAX AVERAGE OUTPUT POWER: *48 WATTS*
- j) BURST MODE: *YES,*
CONTROLLED BY EXTERNAL TRIGGER.

(A)

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BURST MODE

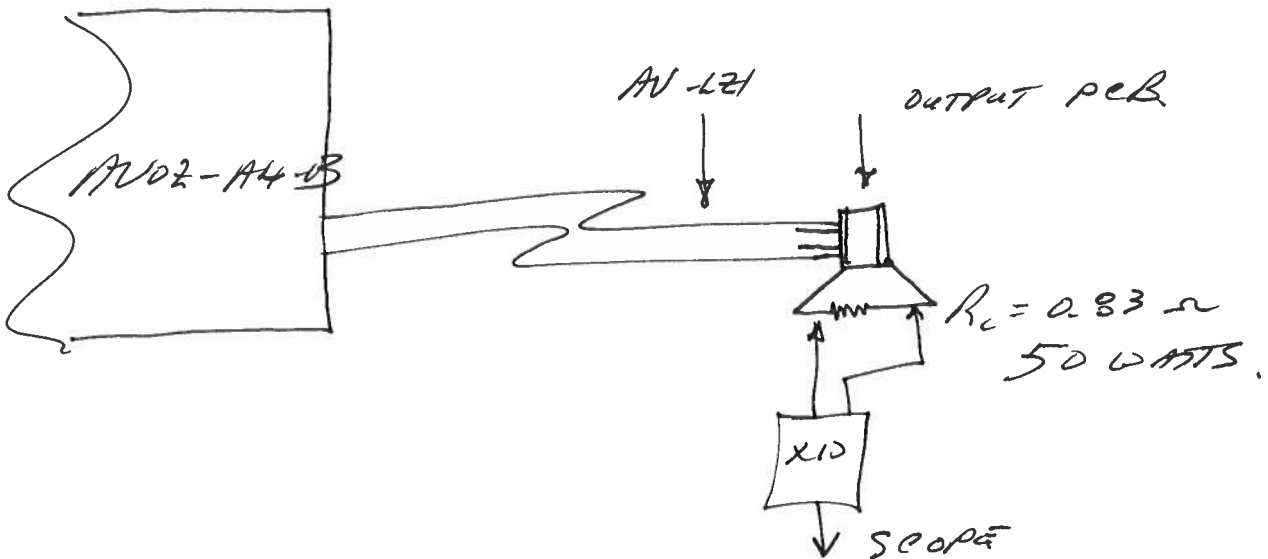
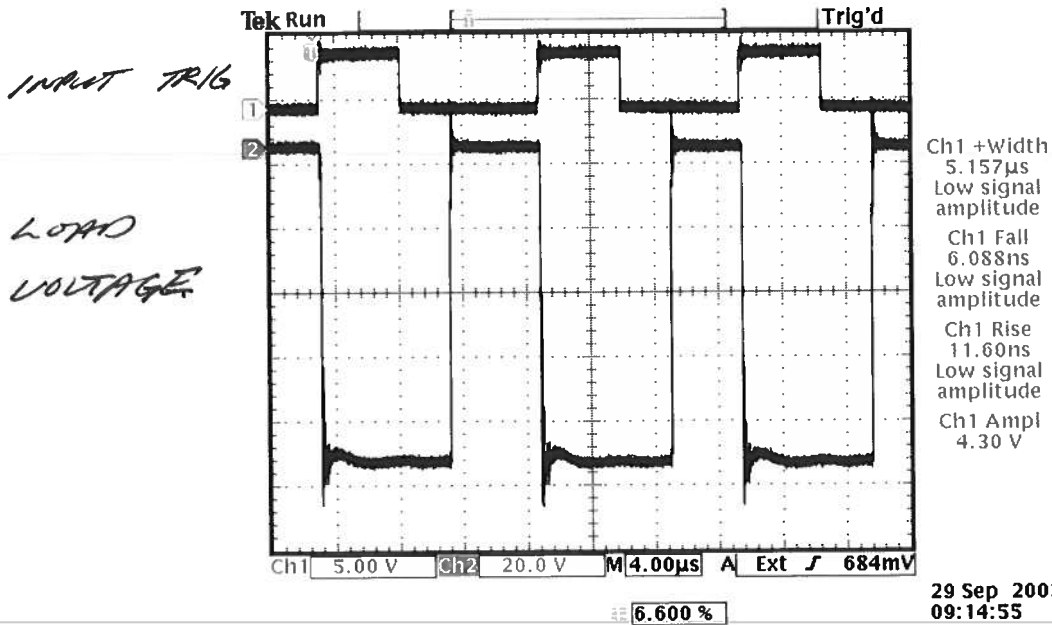
$R_L = 0.83 \Omega$

PULSE WIDTH: $\approx 5 \mu s$

NO OF PULSES: 50

BURST PRF: 10 Hz

DUTY CYCLE: 0.25%



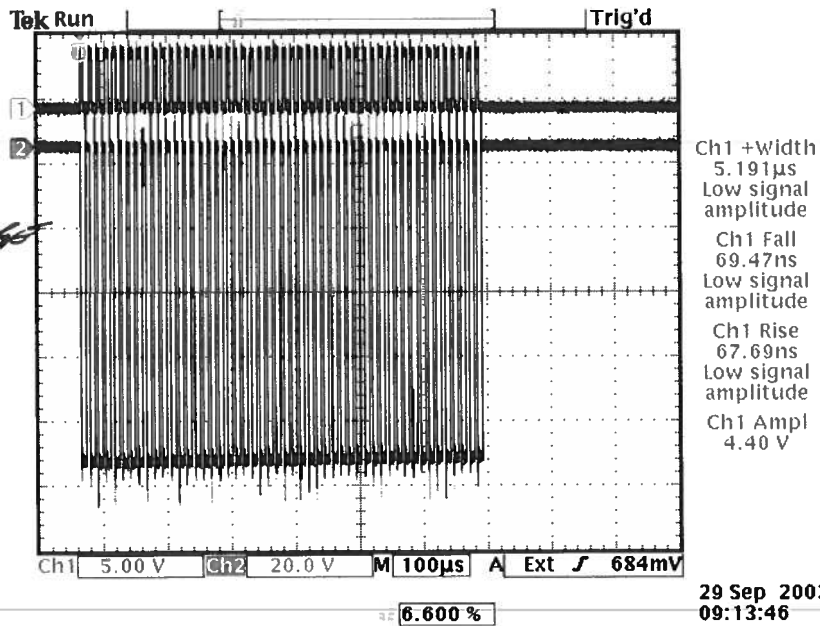
(B)

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AS (A) BUT 100 us/DIV

INPUT TRIG

LOAD VOLTAGE



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CW MODE

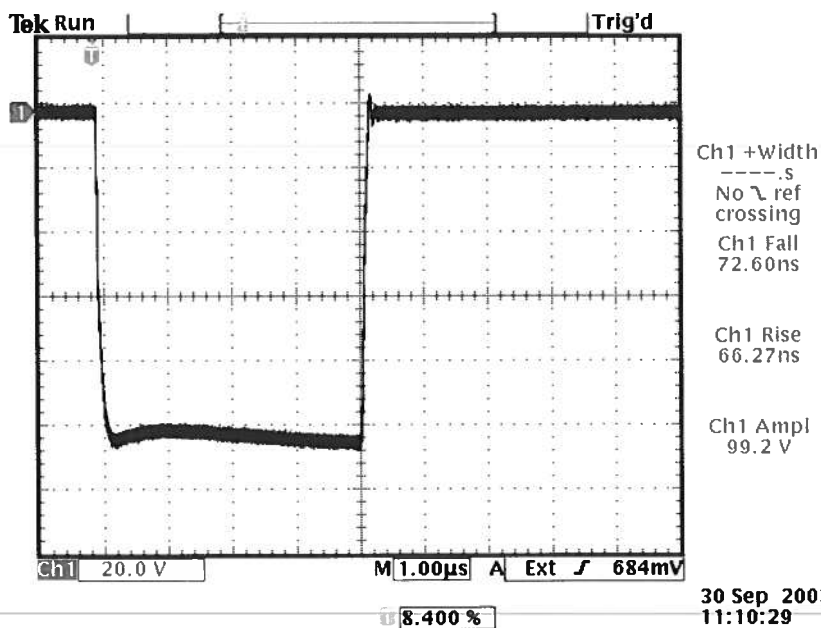
$R_L = 0.83 \Omega$

PULSE WIDTH: 4 μ S

PAF: 1 kHz

DUTY CYCLE: 0.4%

LOAD
VOLTAGE





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"-B" Functional Test & Calibration Certificate

Date of test:	September 30, 2003					Tester:	MJC
Programmed model name:	AVOZ-A4-B-N-ISLA						
Programmed serial number:	10684						
Firmware revision:	2.53						
Internal trigger checked at:	1 Hz	10 Hz	100 Hz	1 kHz	10 kHz		
Actual measured output ¹ :	1.009 Hz	10.01 Hz	99.91 Hz	0.999 kHz	9.95 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:	1 us	2 us	5 us	10 us	10 Hz, -100V		
Actual measured output ² :	1.00 us	2.01 us	5.07 us	10.06 us	to 0.83Ω		
PWin = PWout mode checked:	Yes			DC mode checked:			N/A
Duty Cycle Limit:	0.4%						
Delay nulled:	Yes						
Delay checked at:	100 ns	1 us	10 us		10 Hz, -100V		
Actual measured output ¹ :	100.0 ns	1.003 us	10.06 us		to 0.83Ω		
Double pulse checked:	N/A						
Invert mode checked:	N/A						
ECL/TTL modes checked:	N/A						
Zout switch checked:	N/A						
Amplitude checked at:	-10V	-20V	-50V	-100V	10 Hz, 5 us to		
Actual measured output ² :	-10.0V	-19.5V	-52V	-101V	0.83Ω		
Amplitude polarity:	-						
Zout calibration:	N/A						
Electronic amplitude control:	N/A						
External amplify mode:	N/A						
Bleeder resistors adequate:	Yes						
Burst mode:	External only						
Monitor V/I Ratio:	N/A			Monitor offset nulled:			
LCD Monitor calibrated:	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						
LCD pull-ups installed:	Yes						
PN trigger pull-downs installed:	N/A						
Sync pulse width checked:	200 ns nominal						
Circuit Boards:	PS:	158E	Main:	108E			
Overload Trigger Resistance:	Trips at:	N/A	Installed:	1.7k 2200uF			
DC fuses:	Positive:	4.0A, 3.15A	Negative:	N/A			
AC Current:	Quiescent:	0.23A @ 115V	Max. Load:	0.96A @ 115V			
		0.17A @ 230V		0.48A @ 230V			
AC fuse:	0.8A (for 230V)						
1.5 kV RMS, 5 second Hypot Test:	OK						
25A RMS Ground Continuity Test:	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 (Cal. Label 112506) for PW < 5 ns.