

PULSE GENERATOR
PERFORMANCE CHECK

Model: AV02-B3-B-P

S.N.: 10620

Date: MAY 15 2003

- a) Output signal amplitude:
0 TO +100 VOLTS TO $R_L \geq 1 \Omega$
(100 AMPS MAX)
- b) Pulse width:
100 NS TO 2 US
(1% MAX DUTY CYCLE)
- c) Rise time: $\leq 30 \text{ NS}$
- d) Fall time:
 $\leq 30 \text{ NS}$
- e) PRF: 0 TO 10 KHZ
(1% MAX DUTY CYCLE)
- f) Jitter, stability:
OK
- g) Prime power:

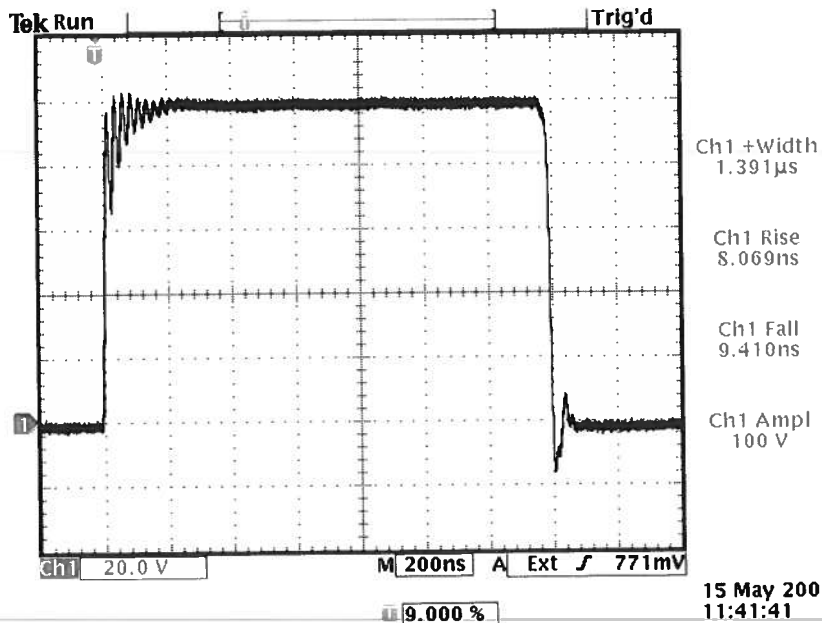
120 / 240 V
50-60 HZ
M

10620

$$R_L = 0.97 \Omega$$

$$PRF = 100 \text{ Hz.}$$

LOAD VOLTAGE





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"-B" Functional Test & Calibration Certificate

Date of test:	May 14, 2003				Tester:	MJC
Programmed model name:	AVOZ-B3-B-P					
Programmed serial number:	10620					
Firmware revision:	2.46					
Internal trigger checked at:	1 Hz	10 Hz	100 Hz	1 kHz	10 kHz	
Actual measured output ¹ :	1.001 Hz	9.986 Hz	100.1 Hz	0.996 kHz	10.01 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:	100 ns	500 ns	1 us	2 us	10 Hz, +100V to 1.0 Ohms	
Actual measured output ² :	100 ns	499 ns	0.990 us	2.01 us		
PWIn = PWout mode checked:	N/A		DC mode checked:		N/A	
Duty Cycle Limit:	1%					
Delay nulled:	yes					
Delay checked at:	100 ns	500 ns	1 us	2 us	10 Hz, +100V to 1.0 Ohms	
Actual measured output ¹ :	101 ns	507 ns	1.000 us	2.02 us		
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, 2 us, to 1.0 Ohms	
Actual measured output ² :	+10.0V	+20.2V	+50.6V	+101V		
Amplitude polarity:	+					
Zout calibration:	N/A					
Electronic amplitude control:	N/A					
External amplify mode:	N/A					
Bleeder resistors adequate:	yes					
Ultraviolet 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 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					
PW stable during amplitude changes:	yes					
Sync pulse width checked:	200 ns					
Circuit Boards:	PS:	93	Main:	108E		
Overload Trigger Resistance:	Trips at:	N/A	Installed:	1.8k 1000 uF		
DC fuses:	Positive:	6.3A	Negative:	N/A		
AC Current:	Quiescent:	0.419A@115V 0.197A@230V	Max. Load:	1.72A@115V 0.85A@230V		
AC fuse:	2A					
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.