

PULSE GENERATOR
PERFORMANCE CHECK

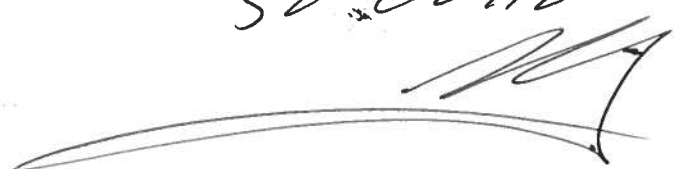
Model: AV02-A3-B-N

S.N.: 10213

Date: APRIL 25 2002

- a) Output signal amplitude:
0 TO -100 VOLTS (FOR $Z_{L} \geq 1.0$
(100 AMP) MAX)
- b) Pulse width:
50 NS TO 2.0 US
(0.1% MAX DUTY CYCLE)
- c) Rise time:
 ≤ 30 NS
- d) Fall time:
 ≤ 30 NS
- e) PRF: 0 TO 20 KHZ
(0.1% MAX DUTY CYCLE)
- f) Jitter, stability:
OK
- g) Prime power:

120/240V
50-60 HZ



(A)

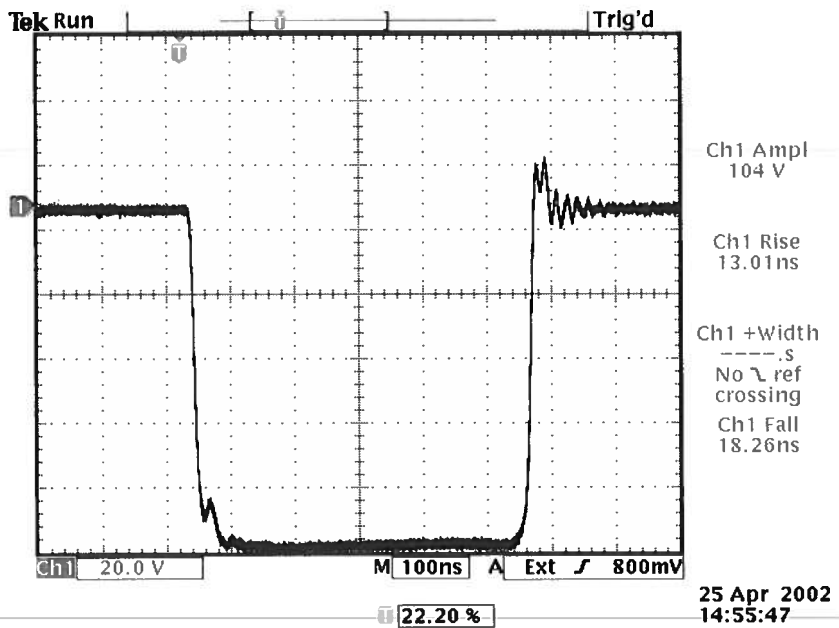
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$$R_L = 1.56 \Omega$$

NARROW PULSE

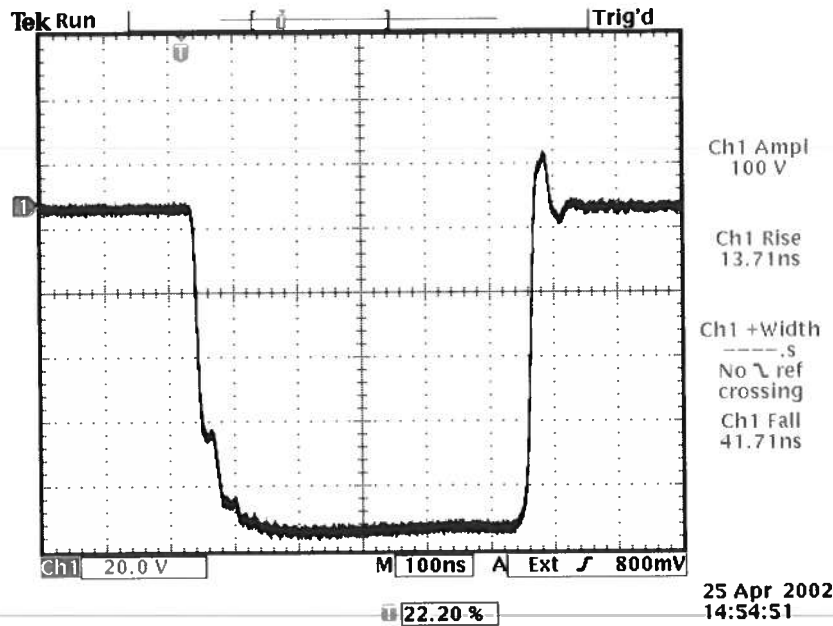
$$PRF = 100 \text{ Hz.}$$

LOAD VOLTAGE.



(B)

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 $R_L = 0.94 \Omega$
NARROW PULSE
 $f_{RF} = 100 \text{ Hz}$
LOAD VOLTAGE



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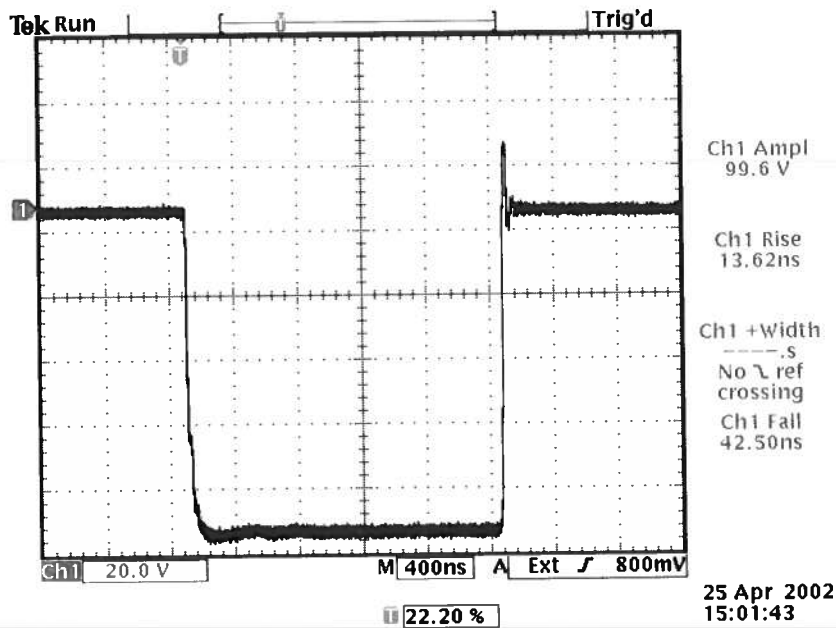
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$$R_L = 0.94 \Omega$$

WIDE PULSE

$$f_{AF} = 100 \text{ MHz}$$

LOAD VOLTAGE





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 FAX: (613) 226-2802

TEL: 1-800-265-6681
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"-B" Functional Test & Calibration Certificate

Date of test:	April 25, 2002				Tester:	MJC
Programmed model name:	AVOZ-A3-B-N					
Programmed serial number:	10213					
Firmware revision:	2.39					
Temp, RH:	23.9°C, 28.8%					
Internal trigger checked at:	2 Hz	20 Hz	200 Hz	2 kHz	20 kHz	
Actual measured output ¹ :	2.01 Hz	20.09 Hz	200.8 Hz	2.007 kHz	20.01 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:	50 ns	500 ns	2 us		100 Hz, -100V	
Actual measured output ² :	49 ns	515 ns	2.00 us		to 0.94 Ohms	
PWin = PWout mode checked:	N/A			DC mode checked:	N/A	
Duty Cycle Limit:	0.1%					
Delay nulled:	yes					
Delay checked at:	100 ns	500 ns	2 us		100 Hz, -100V	
Actual measured output ¹ :	100.1 ns	507 ns	2.02 us		to 0.94 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:	-10V	-20V	-50V	-100V	100 Hz, 2 us,	
Actual measured output ² :	-10.3V	-20.5V	-51V	-101V	to 0.94 Ohms	
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 ² :	N/A					
Offset nulled (output on):	N/A			Amplitude-dependent offset nulled:		
Offset nulled (output off):	N/A					
RS-232 checked:	OK					
Sync pulse width checked:	200 ns					
Circuit Boards:	PS:	93	Main:	108E		
Overload Trigger Resistance:	Trips at:	N/A	Installed:	6.2k		
DC fuses:	Positive:	1A	Negative:	N/A		
AC Current at 115 VAC:	Quiescent:	0.43A	Max. Load:	0.65A		
AC fuse:	1A					
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.