

PULSE GENERATOR
PERFORMANCE CHECK

Model: *AVD2-A3-B-N-KMPA*

S.N.: *10356*

Date: *OCT 9 2002*

- a) Output signal amplitude:
0 TO -100V TO $R_L \geq 1\Omega$
(120 AMPS MAX)
- b) Pulse width:
500NS TO 2 μ S
(0.5% MAX DUTY CYCLE)
- c) Rise time:
 $\leq 30NS$
- d) Fall time:
 $\leq 30NS$
- e) PRF: *0 TO 10 KHZ*
(0.5% MAX DUTY CYCLE)
- f) Jitter, stability:
OK
- g) Prime power:
120/240 VOLTS
50-60 HZ
- h) MAX AV. OUTPUT POWER:
50 WATTS

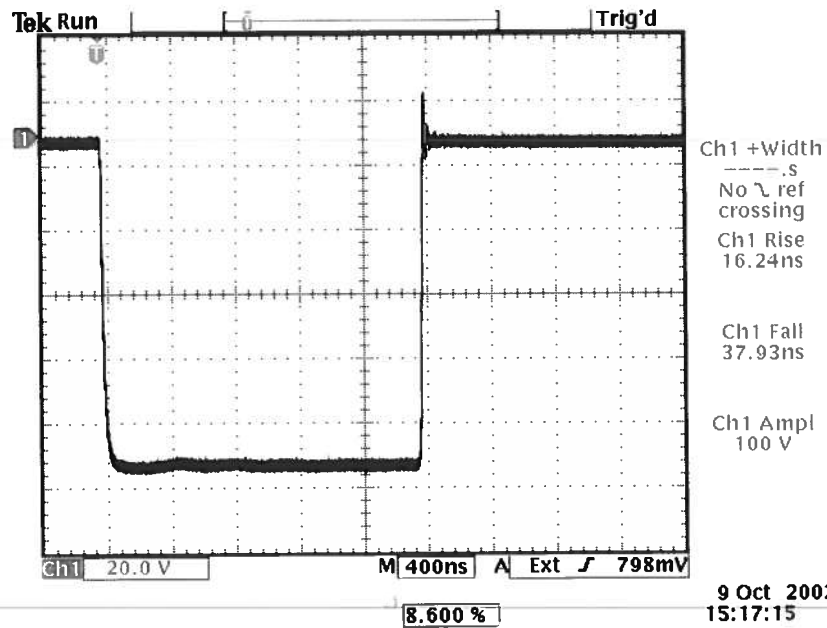


10356

$$R_L = 0.94 \Omega$$

LOAD VOLTAGE

1 kHz PAF





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"-B" Functional Test & Calibration Certificate

Date of test:	October 9, 2002	Tester:				MJC
Programmed model name:	AVOZ-A3-B-N-KMPA					
Programmed serial number:	10356					
Firmware revision:	2.43					
Internal trigger checked at:	1 Hz	10 Hz	100 Hz	1 kHz	10 kHz	
Actual measured output ¹ :	1.008 Hz	10.09 Hz	100.9 Hz	1.006 kHz	10.05 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:	500 ns	1 us	2 us	5 Hz, -100V to 1 Ohm		
Actual measured output ² :	500 ns	0.993 us	2.001 us	1 Ohm		
PWin = PWout mode checked:	N/A	DC mode checked:			N/A	
Duty Cycle Limit:	0.5%					
Delay nulled:	yes					
Delay checked at:	100 ns	1 us	2 us	5 Hz, -100V to 1 Ohm		
Actual measured output ¹ :	98.9 ns	1.000 us	2.01 us	1 Ohm		
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	5 Hz, 2 us to 1 Ohm	
Actual measured output ² :	-10.1V	-20.1V	-50.2V	-100.0V	1 Ohm	
Amplitude polarity:	-					
Zout calibration:	N/A					
Electronic amplitude control:	N/A					
External amplify mode:	N/A					
Bleeder resistors adequate:	yes, 18k on UV					
Ultraviolet flux removed:	N/A					
Monitor V/I Ratio:	N/A	Monitor offset nulled:				
LCD Monitor calibrated:	N/A					
Offset checked at:	N/A	Amplitude-dependent offset nulled:				
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					
PN trigger pull-downs installed:	N/A					
PW stable during amplitude changes:	yes					
Sync pulse width checked:	200 ns nom					
Circuit Boards:	PS:	93	Main:	108E		
Overload Trigger Resistance:	Trips at:	N/A	Installed:	3.5k		
DC fuses:	Positive:	4A	Negative:	N/A		
AC Current at 115 VAC:	Quiescent:	0.57A	Max. Load:	1.6A		
AC fuse:	1A (for 240V)					
120/240V operation:	OK	Fan operational:			yes	
Photographed:	yes					

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.