


PULSE GENERATOR  
PERFORMANCE CHECK

Model: *AV02-A1-B-P*  
S.N.: *10918*  
Date: *APRIL 30 2004*

- a) Output signal amplitude:  
*0 to +20 V to  $R_L = 1 \Omega$*
- b) Pulse width: *(20 Amp)*  
*20 ns to 1.0  $\mu$ s*
- c) Rise time:  
 *$\leq 10$  ns*
- d) Fall time:  
 *$\leq 10$  ns*
- e) PRF:  
*0 to 20 kHz.*
- f) Jitter, stability:  
*OK*

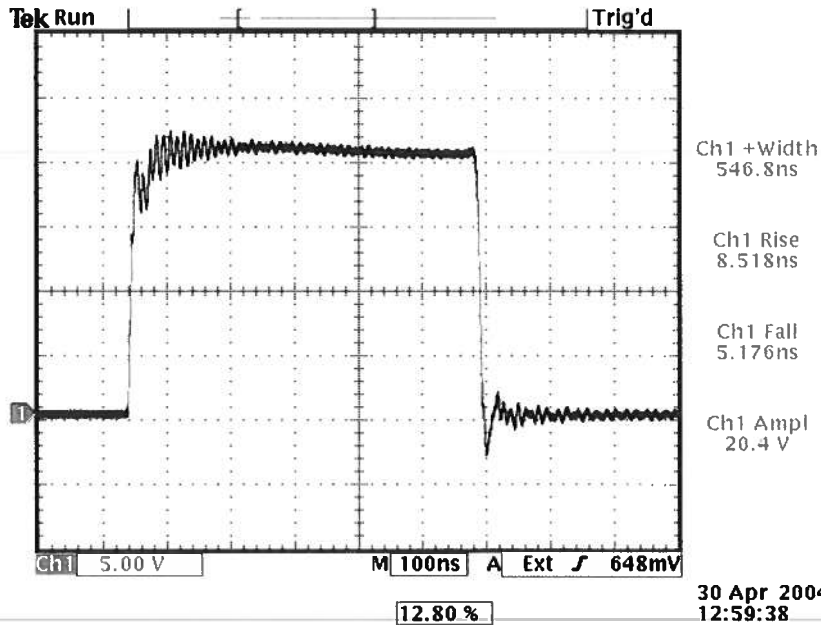
g) Prime power:  
*100  $\rightarrow$  240 V*  
*50 - 60 Hz*  


10918

$R_L = 1\Omega$

PRF = 20 kHz

LOAD VOLTAGE





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### "-B" Functional Test & Calibration Certificate

Date of test:	April 30, 2004					Tester:	MJC
Programmed model name:	AVOZ-A1-B-P						
Programmed serial number:	10918						
Firmware revision:	2.58						
Internal trigger checked at:	2 Hz	20 Hz	200 Hz	2 kHz	20 kHz		
Actual measured output <sup>1</sup> :	2.02 Hz	20.12 Hz	201.1 Hz	2.01 kHz	19.93 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:	20 ns	100 ns	300 ns	1 us		100 Hz, +20V to 1.57Ω	
Actual measured output <sup>2</sup> :	19.8 ns	100.1 ns	311 ns	1.002 us			
PWin = PWin mode checked:	N/A			DC mode checked:		N/A	
Duty Cycle Limit:	2%						
Delay nulled:	Yes						
Delay checked at:	100 ns	1 us	10 us	100 us	100 Hz, +20V to 1.57Ω		
Actual measured output <sup>1</sup> :	100.2 ns	1.007 us	10.08 us	100.8 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:	+2V	+5V	+10V	+20V	1 kHz, 200 ns to 1.18Ω		
Actual measured output <sup>2</sup> :	+2.0V	+5.04V	+10.1V	+20.1V			
Amplitude polarity:	+						
Zout calibration:	N/A						
Electronic amplitude control:	N/A						
External amplify mode:	N/A						
Bleeder resistors adequate:	N/A						
Burst mode:	N/A						
Monitor V/I Ratio:	N/A			Monitor offset nulled:			
LCD Monitor calibrated:	N/A						
Offset checked at:	N/A						
Actual measured output <sup>2</sup> :	N/A						
Offset nulled (output on):	N/A						
Offset nulled (output off):	N/A						
Amplitude-dependent offset nulled:							
RS-232 checked:	Yes						
LCD pull-ups installed:	N/A						
PCB 108G/H resistor updates:	Yes						
PN trigger pull-downs installed:	N/A						
Sync pulse width checked:	100 ns						
Circuit Boards:	PS:	158F	Main:	108H			
Overload Trigger Resistance:	Trips at:	N/A	Installed:	10k			
DC fuses:	Main:	1.6A	Overload:	0.8A			
AC Current:	Quiescent:	0.27A @ 115V	Max. Load:	0.36A @ 115V			
		0.18A @ 230V		0.21A @ 230V			
AC fuse:	0.5A						
1.5 kV RMS, 5 second Hypot Test:	OK						
25A RMS Ground Continuity Test:	OK						
Fan operational:	Yes						
Photographed:	Yes						

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

<sup>2</sup> 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.