

PULSE GENERATOR
PERFORMANCE CHECK

Model: *AVD-BA-B-P*

S.N.: *10216*

Date: *MAY 16 2002*

- a) Output signal amplitude: *0 TO +40 VOLTS TO*
- b) Pulse width: *2 us TO 20ms*
40 AMP MAX
- c) Rise time: *(+DC)*
≤ 0.5us
- d) Fall time: *≤ 0.5us*
- e) PRF: *0 TO 1KHz*
- f) Jitter, stability: *OK*
- g) Prime power:
 - a) *120/240 V, 50-60Hz*
 - b) *0 TO +40 VDC,*
40 AMP MAX.



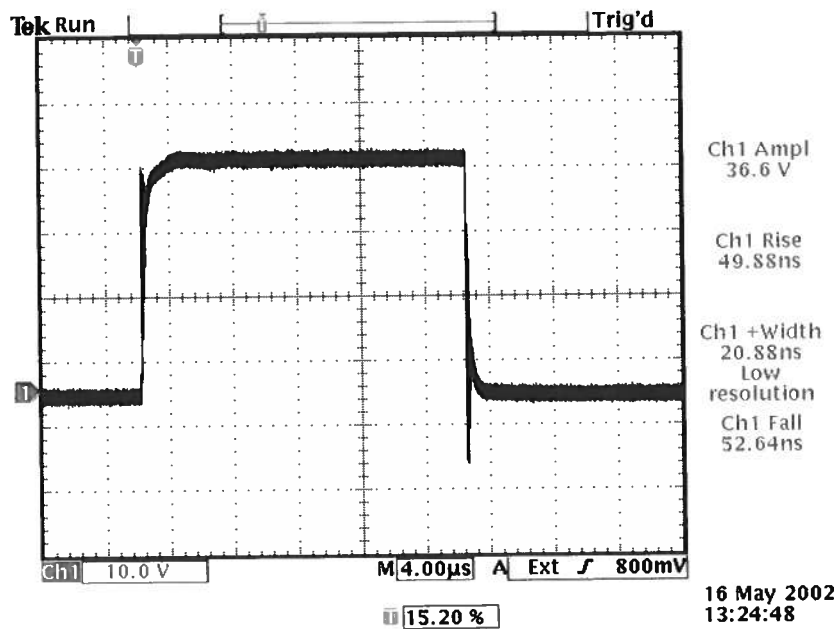
(A)

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NARROW PULSE

$$R_L = 1 \Omega$$

$$V_{DC} = +40 \text{ VOLTS.}$$

$$PRF = 1 \text{ KHz}$$



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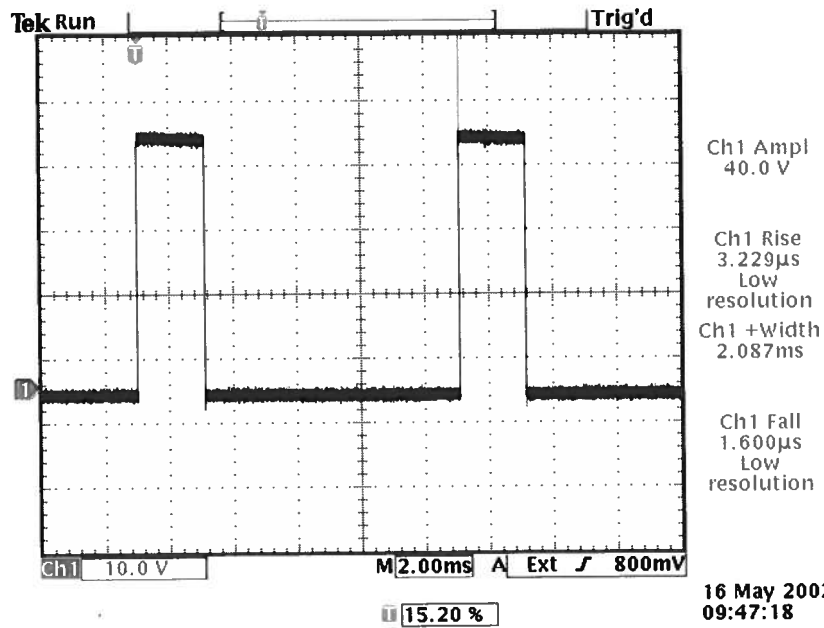
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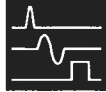
WIDE PULSE

$R_c = 1 \Omega$

$V_{DC} \approx +40 \text{ VOLTS}$

$f_{RF} = 100 \text{ Hz}$



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"-B" Functional Test & Calibration Certificate

Date of test:	May 16, 2002				Tester:	MJC	
Programmed model name:	AVO-8A-B-P						
Programmed serial number:	10216						
Firmware revision:	2.39						
Temp, RH:	25.1°C, 31.2%						
Internal trigger checked at:	1 Hz	10 Hz	100 Hz	1 kHz			
Actual measured output ¹ :	1.003 Hz	10.00 Hz	100.0 Hz	1.013 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:	200 us	2 ms	20 ms		1 Hz, +40V to 1.0 Ohms		
Actual measured output ² :	203 us	2.02 us	20.2 ms				
PW _{in} = PW _{out} mode checked:	yes	DC mode checked:				yes	
Duty Cycle Limit:	N/A						
Delay nulled:	yes, at TTL trigger point						
Delay checked at:	200 us	2 ms	20 ms	200 ms	1 Hz, +40V to 1.0 Ohms		
Actual measured output ¹ :	202.5 us	2.02 ms	20.24	202 ms			
Double pulse checked:	N/A						
Invert mode checked:	N/A						
ECL/TTL modes checked:	N/A						
Zout switch checked:	N/A						
Amplitude checked at:	N/A						
Actual measured output ² :	N/A						
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:	yes						
LCD pull-ups installed:	yes						
Sync pulse width checked:	200 ns nom						
Circuit Boards:	PS:	93	Main:	108B			
Overload Trigger Resistance:	Trips at:	N/A	Installed:	N/A			
DC fuses:	Positive:	N/A	Negative:	N/A			
AC Current at 115 VAC:	Quiescent:	0.36A, no PG	Max. Load:	N/A			
AC fuse:	1 A						
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.