

PULSE GENERATOR
PERFORMANCE CHECK

Model: *AM-8A-B-P*

S.N.: *10212*

Date: *JUNE 3 2002*

- a) Output signal amplitude:
0 TO 7 1000 VOLTS
($R_L \geq 50 \Omega$)
- b) Pulse width:
200 NS TO 200 US
(0.2 % MAX DUTY CYCLE)
- c) Rise time:
 $\leq 100 NS$
- d) Fall time:
 $\leq 100 NS$
- e) PRF: *0 TO 1 KHz.*
(0.2 % MAX DUTY CYCLE)
- f) Jitter, stability:
OK
- g) Prime power:
120/240 V
50-60 Hz.

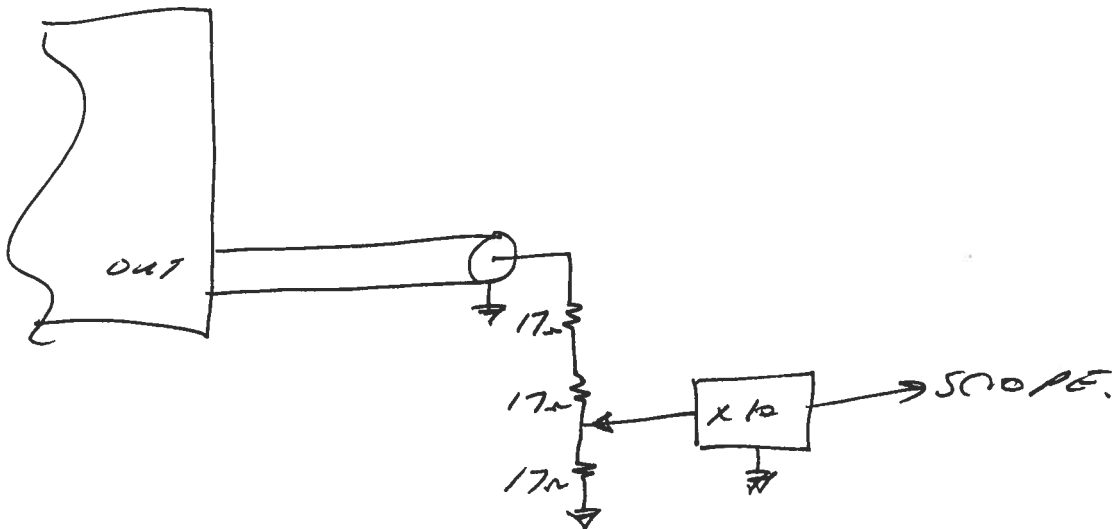
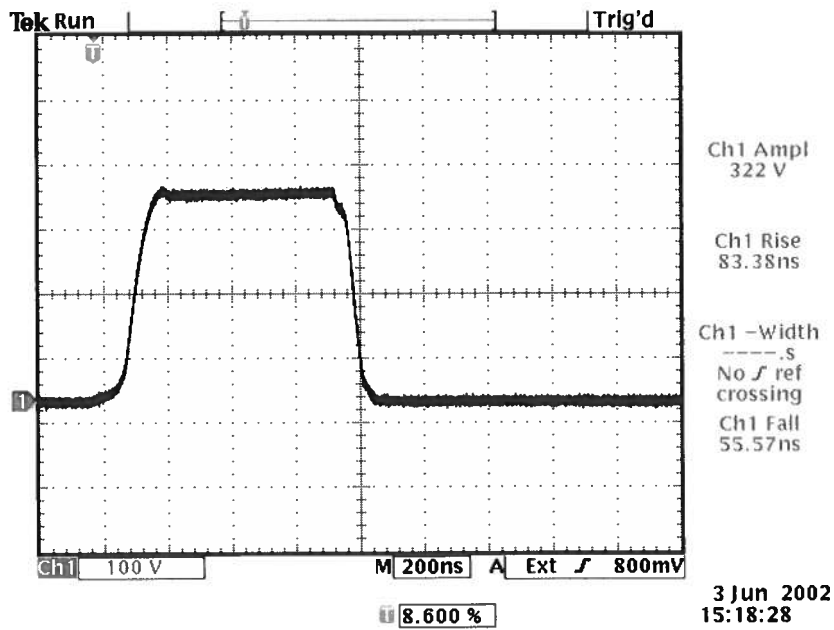


(A)

10212
NARROW PULSE.

PBF = 1 kHz

$R_c = 50 \Omega$



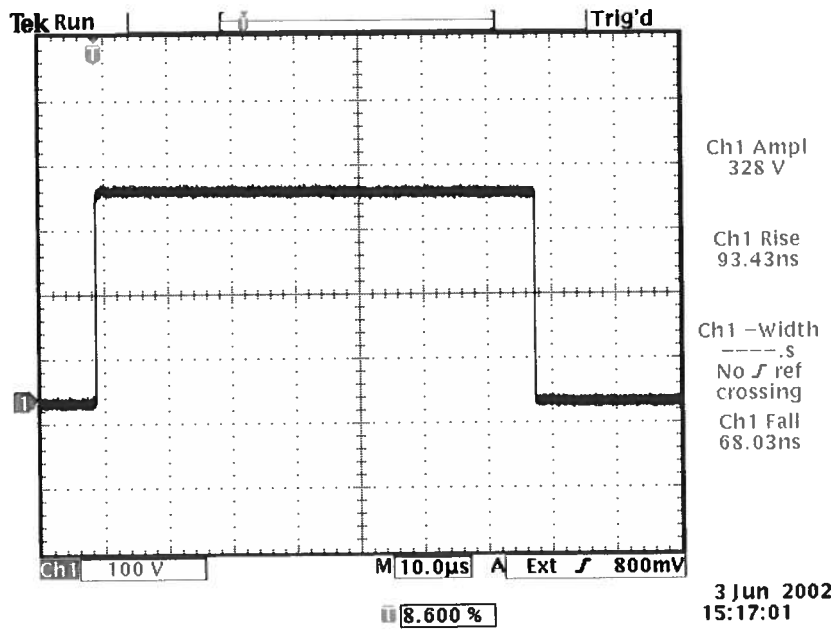
(B)

10212

WIDE PULSE

PRF = 10Hz

$R_L = 50\Omega$



LOAD AS PER (A)



AVTECH ELECTROSYSTEMS LTD.
 NANOSECOND WAVEFORM ELECTRONICS
 SINCE 1975

P.O. BOX 265
 OGDENSBURG, NY
 U.S.A. 13669-0265
 TEL: (315) 472-5270
 FAX: (613) 226-2802

TEL: 1-800-265-6681
 FAX: 1-800-561-1970

e-mail: info@avtechpulse.com
 http://www.avtechpulse.com

P.O. BOX 5120 STN. F
 OTTAWA, ONTARIO
 CANADA K2C 3H4
 TEL: (613) 226-5772
 FAX: (613) 226-2802

"-B" Functional Test & Calibration Certificate

Date of test:	June 3, 2002				Tester:	MJC
Programmed model name:	AVR-8A-B-P					
Programmed serial number:	10212					
Firmware revision:	2.40					
Temp, RH:	26.2°C, 35.2%					
Internal trigger checked at:	1 Hz	10 Hz	100 Hz	1 kHz		
Actual measured output ¹ :	1.003 Hz	10.02 Hz	100.2 Hz	1.002 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 ns	2 us	20 us	200 us	1 Hz, +1kV to 50 Ohms	
Actual measured output ² :	200 ns	2.02 us	20.2 us	202 us		
PWin = PWout mode checked:	yes			DC mode checked:	N/A	
Duty Cycle Limit:	0.2%					
Delay nulled:	yes					
Delay checked at:	200 ns	2 us	20 us	200 us	1 Hz, +1kV to 50 Ohms	
Actual measured output ¹ :	200.4 ns	2.02 us	20.2 us	203 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:	+30V	+100V	+300V	+1000V	10 Hz, 20 us into 50 Ohms	
Actual measured output ² :	+29.5V	+100.0V	+301V	+1002V		
Amplitude polarity:	+					
Zout calibration:	N/A					
Electronic amplitude control:	N/A					
External amplify mode:	N/A					
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					
Sync pulse width checked:	200 ns nom					
Circuit Boards:	PS:	93	Main:	108E		
Overload Trigger Resistance:	Trips at:	N/A	Installed:	2k 1000 uF		
DC fuses:	Positive:	2.5A	Negative:	N/A		
AC Current at 115 VAC:	Quiescent:	0.36A	Max. Load:	0.97A		
AC fuse:	1.5A					
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.