

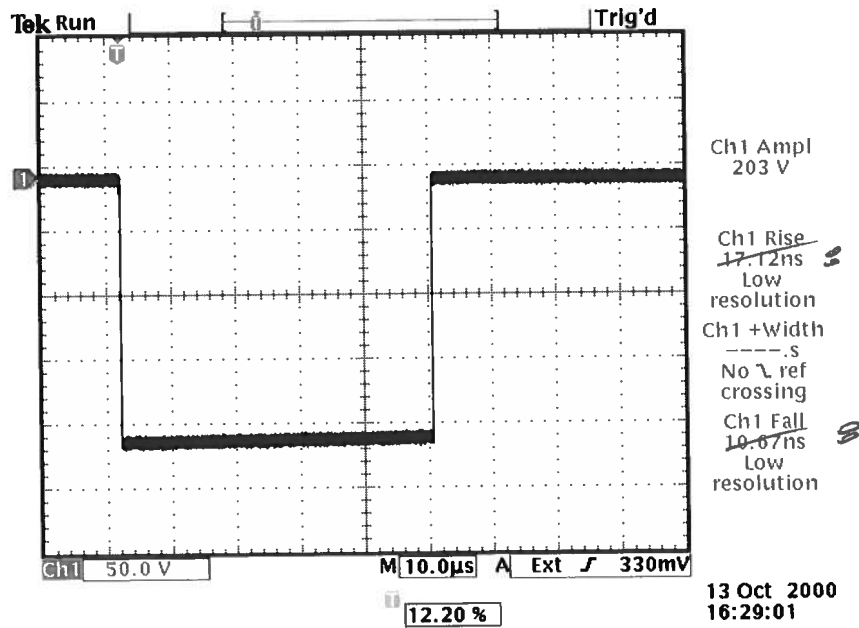
PULSE GENERATOR
PERFORMANCE CHECK

Model: *AVR-3-B-PW*
S.N.: *9527*
Date: *OCT 13 2000*

- a) Output signal amplitude:
0 to ± 200 V
- b) Pulse width: (*$R_L > 50\Omega$*)
0.1 to 100 μ s
- c) Rise time: *0.5 μ s MAX DUTY CYCLE*
 ≤ 10 ns
- d) Fall time:
 ≤ 10 ns
- e) PRF: *0 to 10 kHz*
0.5% MAX DUTY CYCLE
- f) Jitter, stability:
OK
- g) Prime power:
120/240 V
50-60 Hz



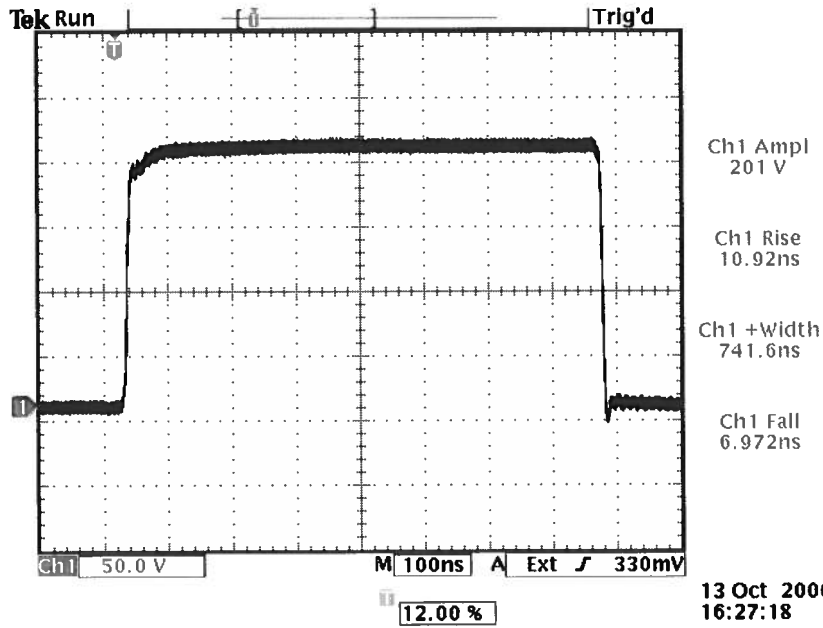
9527
WIDE PULSE
 $R_c = 50 \Omega$



9527

NARROW PULSE

$R_L = 50 \Omega$





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:	October 13, 2000				Tester:	MJC
Programmed model name:	AVR-3-B-PN					
Programmed serial number:	9527					
Firmware revision:	2.22					
Internal trigger checked at:	1 Hz	10 Hz	100 Hz	1 kHz	10 kHz	
Actual measured output ¹ :	0.993 Hz	9.95 Hz	99.3 Hz	0.994 kHz	9.96 kHz	
External trigger checked:	yes			Gate checked:	yes	
Trigger load resistor present:	yes					
Manual trigger checked:	yes					
Pulse compression checked:	yes	Low Amplitude PW Distortion Nulled:			N/A	
Pulse width checked at:	100 ns	1 us	10 us	100 us	10 Hz, +200V, into 50 Ohms	
Actual measured output ² :	97.3 ns	1.001 us	9.95 us	100.5 us		
PWin = PWout mode checked:	yes	DC mode checked:			N/A	
Duty Cycle Limit:	0.5%					
Delay nulled:	yes					
Delay checked at:	1 us	10 us	100 us	10 Hz, +200V, into 50 Ohms		
Actual measured output ¹ :	1.005 us	9.995 us	100.07 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:	-20V	+50V	-100V	+200V	10 Hz, 100us, into 50 Ohms	
Actual measured output ² :	-20.2V	+49.6V	-100V	+200V		
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			Monitor offset nulled:		
Mon. Single Pulse/Min PW OK:	N/A			SHA Cap:		
Offset checked at:	N/A					
Actual measured output ² :	N/A					
Offset nulled (output on):	N/A					
Offset nulled (output off):	N/A					
RS-232 checked:	yes					
Sync pulse width checked:	200 ns					
Circuit Boards:	PS:	93	Main:	108		
Overload Trigger Resistance:	Trips at:	N/A	Installed:	16.2K		
DC fuses:	Positive:	0.5A	Negative:	N/A		
AC Current at 115 VAC:	Quiescent:	0.44A	Max. Load:	0.55A		
AC fuse:	1 A					
Photographed:	yes					

¹ Checked with: Fluke PM6681 Counter, referenced to Datum ExacTime 9390-6000 GPS Frequency Reference

² Checked with: Tektronix TDS360 digital oscilloscope for PW ≥ 5 ns,
Tektronix 7704A/7S11/7T11/S4 sampling oscilloscope system for PW < 5 ns.