

PULSE GENERATOR  
PERFORMANCE CHECK

Model: AVR-8A-B-PN-R5

S.N.: 10233

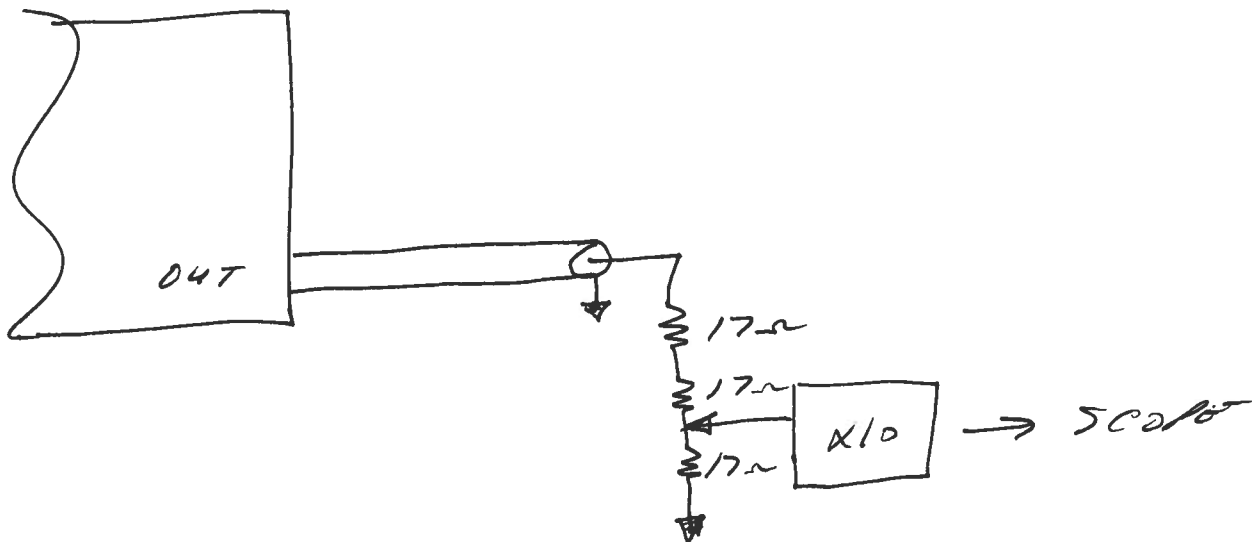
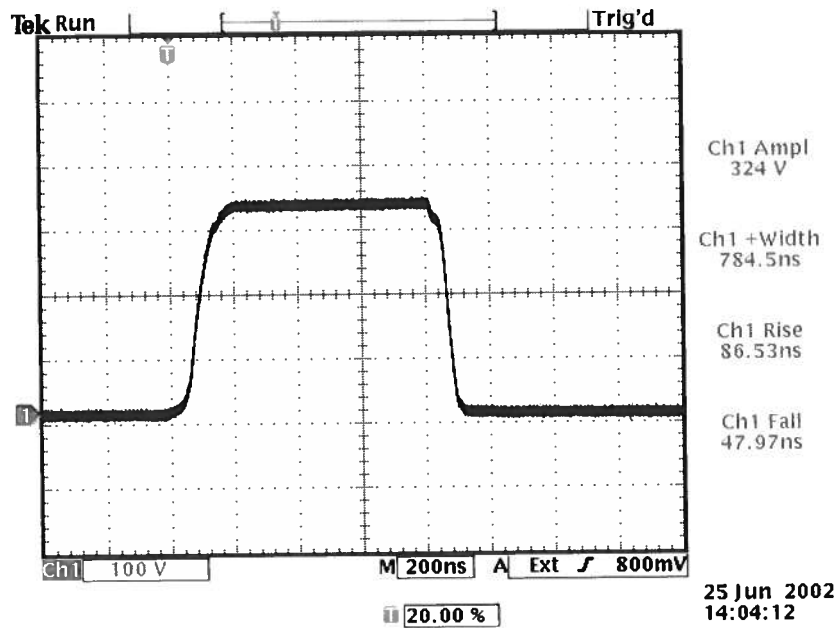
Date: JUNE 25 2002.

- a) Output signal amplitude:  
0 TO  $\pm 1000$  VOLTS
- b) Pulse width: ( $R_L \geq 50\Omega$ )  
200 NS TO 2000S
- c) Rise time:  
(0.2% MAX DUTY CYCLE)  
 $\leq 100$  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:

120/240V  
50-60Hz

(A)

10233  
NARROW PULSE  
PO 5 OUT  
 $R_L = 50 \Omega$   
PRF = 100 MHz



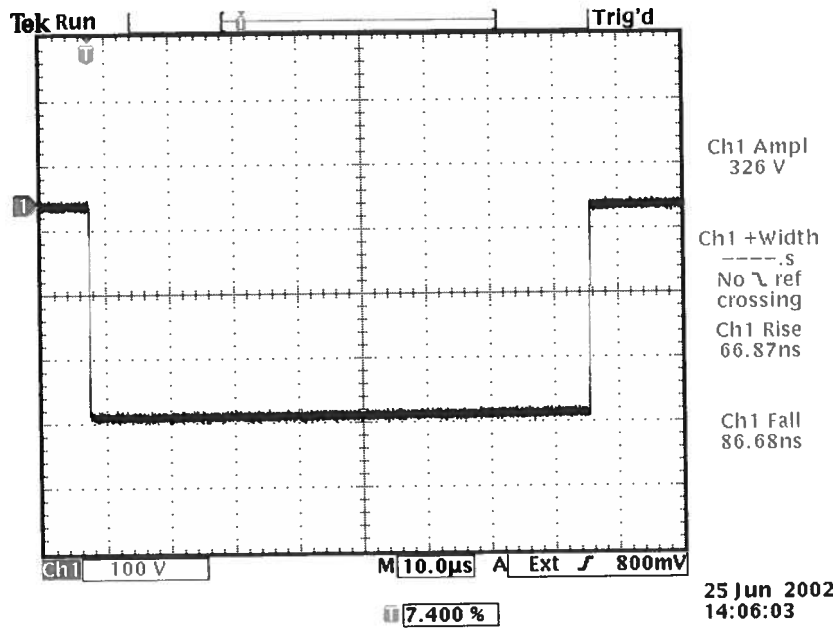
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10233

WIDE PULSE  
NEGATIVE OUT

$R_L = 50\Omega$

PRF = 10 Hz.



SEE Ⓐ FOR LOAD CONNECTION!



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 25, 2002				Tester:	MJC
Programmed model name:	AVR-8A-B-PN-R5					
Programmed serial number:	10233					
Firmware revision:	2.40					
Temp, RH:	27.2°C, 38.4%					
Internal trigger checked at:	1 Hz	10 Hz	100 Hz	1 kHz		
Actual measured output <sup>1</sup> :	0.997 Hz	9.96 Hz	99.6 Hz	0.997 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, +1000V, into 50 Ohms	
Actual measured output <sup>2</sup> :	200.7 ns	2.03 us	20.3 us	202 us		
PW <sub>in</sub> = PW <sub>out</sub> 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, +1000V, into 50 Ohms	
Actual measured output <sup>1</sup> :	200.1 ns	2.021 us	20.2 us	202 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:	-100V	+200V	-500V	+1000V	10 Hz, 2 us, into 50 Ohms	
Actual measured output <sup>2</sup> :	-101V	+202V	-501V	+999V		
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 <sup>2</sup> :	N/A					
Offset nulled (output on):	N/A			Amplitude-dependent offset nulled:		
Offset nulled (output off):	N/A					
RS-232 checked:	yes					
Sync pulse width checked:	200 ns					
Circuit Boards:	PS:	93	Main:	108E		
Overload Trigger Resistance:	Trips at:	N/A	Installed:	2k, 1000uF		
DC fuses:	Positive:	2.5A	Negative:	N/A		
AC Current at 115 VAC:	Quiescent:	0.49A	Max. Load:	1.25A		
AC fuse:	1.5A					
120/240V operation:	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 system (Cal. Label 112506) for PW < 5 ns.