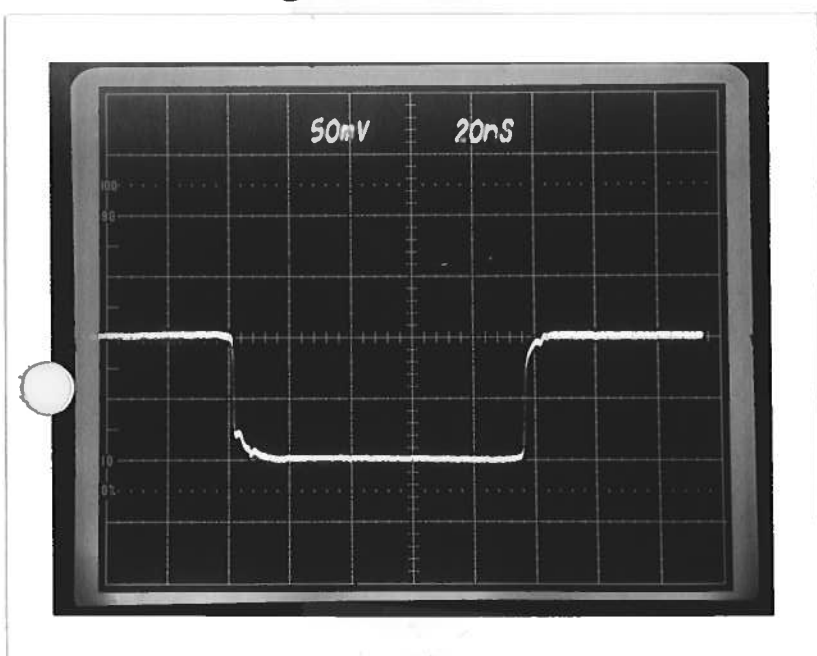


PULSE GENERATOR  
PERFORMANCE CHECK

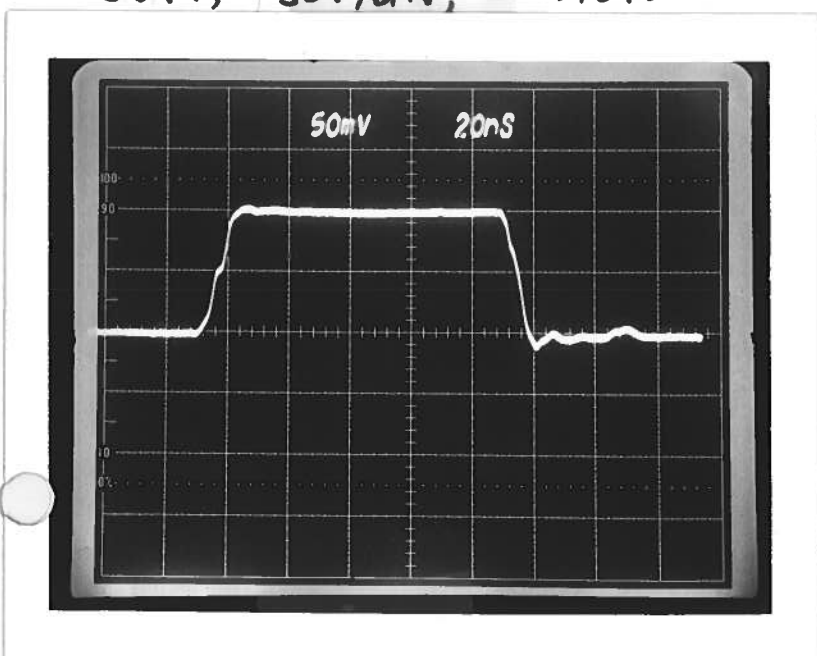
Model: AVR-EB3-B

S.N.: 9902

Date: Oct. 12/01

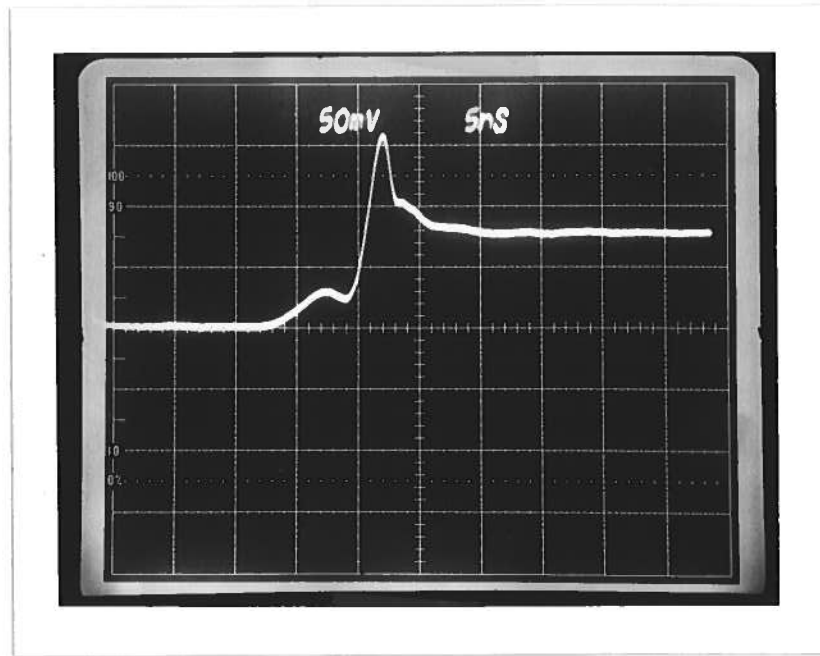


OUT1, 50V/div, 20ns/div

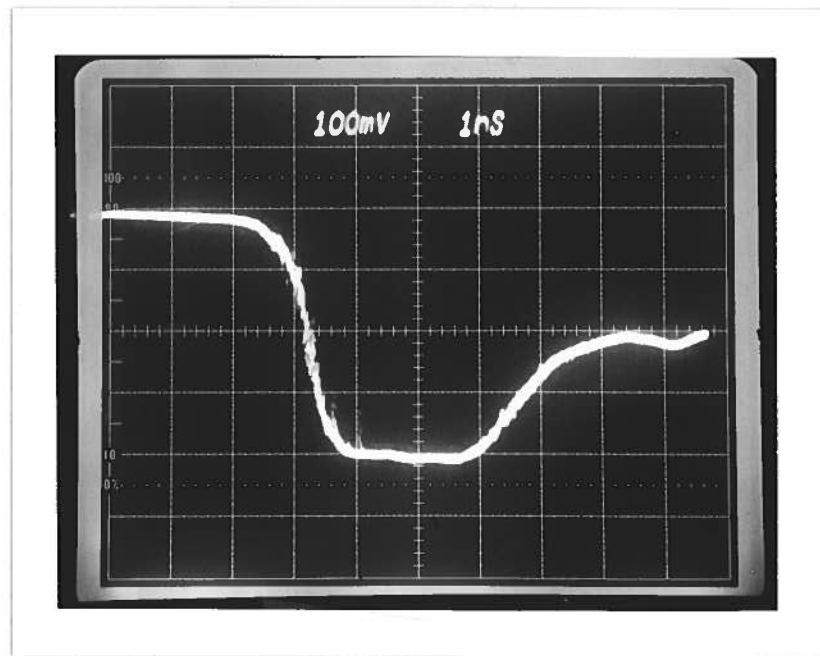


OUT2, 50V/div, 20ns/div

- a) Output signal amplitude:  
CH1: 0 to -100V ✓  
CH2: 0 to +100V ✓
- b) Pulse width: 100ns - 5μs ✓
- c) Rise time: CH1: ≤ 1ns ✓  
CH2: ≤ 5ns ✓
- d) Fall time: CH1: ≤ 1ns ✓  
CH2: ≤ 5ns ✓
- e) PRF: 1Hz - 5kHz ✓
- f) Jitter, stability: OK ✓
- g) Prime power: 120/240V, 50-60Hz ✓



Forward Recovery Test, IN4150. 0.55V/div, 5ns/div.  
See page 17 of manual for test procedure.



Reverse Recovery Test, IN4150. 200mA/div, 1ns/div.  
See page 21 of manual for test procedure.

A handwritten signature or initials in the bottom right corner of the page.



**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 12, 2001				Tester:	MJC
Programmed model name:	AVR-EB3-B					
Programmed serial number:	9902					
Firmware revision:	2.27					
Internal trigger checked at:	1 Hz	10 Hz	100 Hz	1 kHz	5 kHz	
Actual measured output <sup>1</sup> :	0.994 Hz	9.92 Hz	99.3 Hz	0.994 kHz	4.98 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:	CH1: 100 ns	CH1: 5 us	CH2: 100 ns	CH2: 5 us	100 Hz, max	
Actual measured output <sup>2</sup> :	100.3 ns	5.05 us	100.1 ns	5.00 us	ampl, 50 Ohm	
PWin = PWout mode checked:	N/A			DC mode checked:	N/A	
Duty Cycle Limit:	N/A					
Delay nulled:	yes (CH1 to CH2)					
Delay checked at:	100 ns	1 us	5 us		100 Hz, max	
Actual measured output <sup>1</sup> :	99.6 ns	0.997 us	5.05 us		ampl, 50 Ohm	
Double pulse checked:	N/A					
Invert mode checked:	N/A					
ECL/TTL modes checked:	N/A					
Zout switch checked:	N/A					
Amplitude checked at:	CH1: -10V	CH1: -100V	CH2: +10V	CH2: +100V	100 Hz, 5 us,	
Actual measured output <sup>2</sup> :	-10.1V	-100V	+9.96V	+100V	to 50 Ohms	
Amplitude polarity:	CH1 -, CH2 +					
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:		
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:	108B		
Overload Trigger Resistance:	Trips at:	N/A	Installed:	4.7k		
DC fuses:	Positive:	1.5A	Negative:	N/A		
AC Current at 115 VAC:	Quiescent:	0.51A	Max. Load:	0.75A		
AC fuse:	1A					
Photographed:	yes					

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

<sup>2</sup> Checked with: Tektronix TDS3052 digital oscilloscope for PW ≥ 5 ns,  
 Tektronix 7704A/7S11/7T11/S4 sampling oscilloscope system for PW < 5 ns.