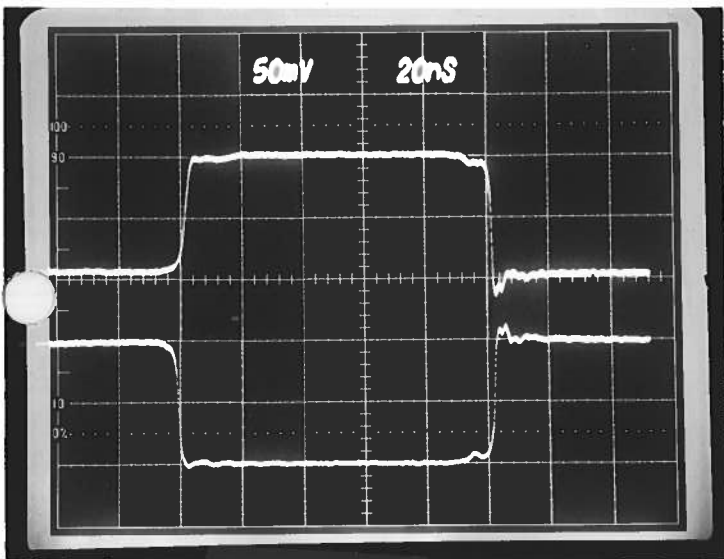


PULSE GENERATOR  
PERFORMANCE CHECK

Model: AV-1011B1-B

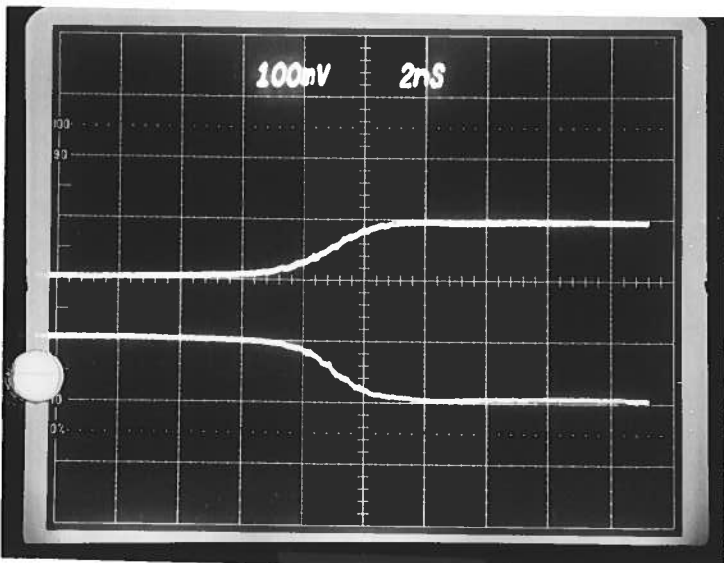
S.N.: 9183

Date: Feb. 10, 2000



- a) Output signal amplitude:  
0 to  $\pm 100V$  into 50 Ohms
- b) Pulse width:  
100ns - 1ms, 5% duty cycle
- c) Rise time:  
2ns
- d) Fall time:  
2ns
- e) PRF:  
0 - 100kHz
- f) Jitter, stability:  
OK
- g) Prime power:  
120/240 Vac, 50-60Hz

↑ Top: +100V, 100ns pw } 50V/div  
Bottom: -100V, 100ns pw } 20ns/div



- ← Top: +100V out  
100V/div, 2ns/div
- ← Bottom: -100V out



# AVTECH ELECTROSYSTEMS LTD.

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SINCE 1975

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## "-B" Functional Test & Calibration Certificate

Date of test:	February 10, 2000				Tester:	MJC
Programmed model name:	AV-1011B1-B					
Programmed serial number:	9183					
Firmware revision:	2.10					
Internal trigger checked at:	1 Hz	100 Hz	1 kHz	100 kHz		
Actual measured output <sup>1</sup> :	0.998 Hz	99.9 Hz	1.000 kHz	99.9 kHz		
External trigger checked:	yes			Gate checked:	yes	
Trigger load resistor present:	yes					
Manual trigger checked:	yes					
Pulse compression checked:	yes					
Pulse width checked at:	90 ns	1 us	50 us	1 ms	+100V into 50	
Actual measured output <sup>2</sup> :	88.8 ns	1.006 us	50.7 us	1.00 ms	Ohms, 10 Hz	
PWin = PWout mode checked:	yes			DC mode checked:	N/A	
Duty Cycle Limit:	5%					
Delay nulled:	yes					
Delay checked at:	1 us	10 us	100 us	1 ms	+100V into 50	
Actual measured output <sup>1</sup> :	1.00 us	9.99 us	100.1 us	1.006 ms	Ohms, 10 Hz	
Double pulse checked:	yes					
Invert mode checked:	N/A					
ECL/TTL modes checked:	N/A					
Zout switch checked:	yes					
Amplitude checked at:	+50V	-50V	+100V	-100V	10Hz, 10 us,	
Actual measured output <sup>2</sup> :	+50.0V	-49.6V	+100.8V	-100.0V	into 50 Ohms	
Amplitude polarity:	+/-					
Zout calibration:	N/A					
Electronic amplitude control:	OK					
External amplify mode:	N/A					
Ultraviolet flux removed:	OK					
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 <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:	108		
Overload Trigger Resistance:	Trips at:	N/A	Installed:	4k		
DC fuses:	Positive:	2A	Negative:	N/A		
AC Current at 115 VAC:	Quiescent:	0.42A	Max. Load:	0.77A		
AC fuse:	1A					
Photographed:	yes					

<sup>1</sup> Checked with: HP5370A Universal Time Interval Counter

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