

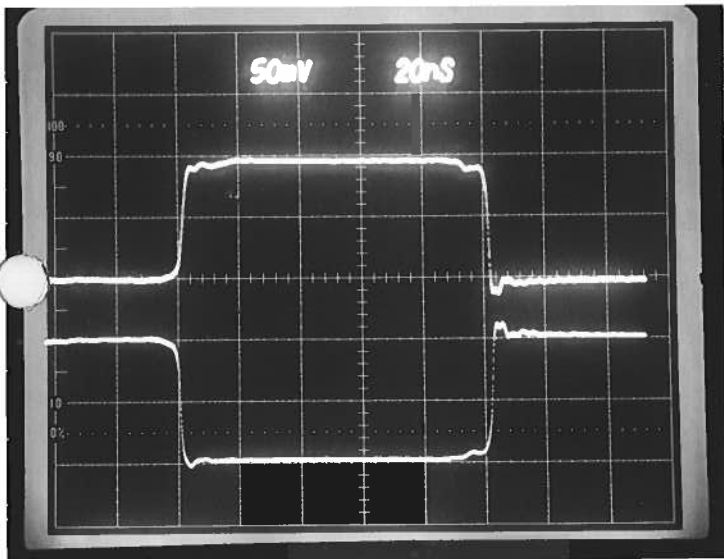
PULSE GENERATOR

PERFORMANCE CHECK

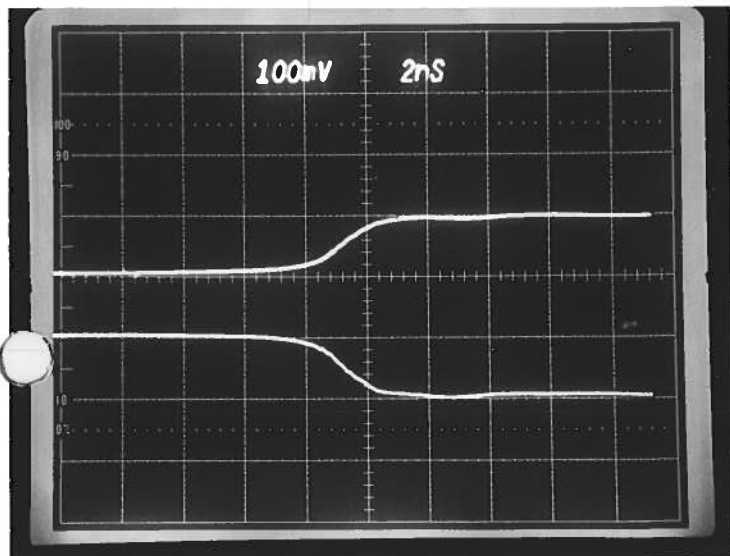
Model: AV-1011B1-B

S.N.: 9218

Date: March 16, 2000



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



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



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:	March 16, 2000				Tester:	MJC
Programmed model name:	AV-1011B1-B					
Programmed serial number:	9218					
Firmware revision:	2.11					
Internal trigger checked at:	1 Hz	100 Hz	10 kHz	100 kHz		
Actual measured output ¹ :	1.001 Hz	99.8 Hz	10.01 kHz	100.3 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:	100 ns	1 us	100 us	1 ms	10 Hz, +100V into 50 Ohms	
Actual measured output ² :	99.7 ns	1.002 us	100.4 us	1.004 ms		
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	10 Hz, +100V into 50 Ohms	
Actual measured output ¹ :	1.004 us	9.97 us	100.1 us	0.998 ms		
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	10 Hz, 1 us, into 50 Ohms	
Actual measured output ² :	+50.4V	-50.0V	+100.8V	-100.8V		
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 ² :	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:	50 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:	0.41A	Max. Load:	0.75A		
AC fuse:	1A					
Photographed:	yes					

¹ Checked with: HP5370A Universal Time Interval Counter

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