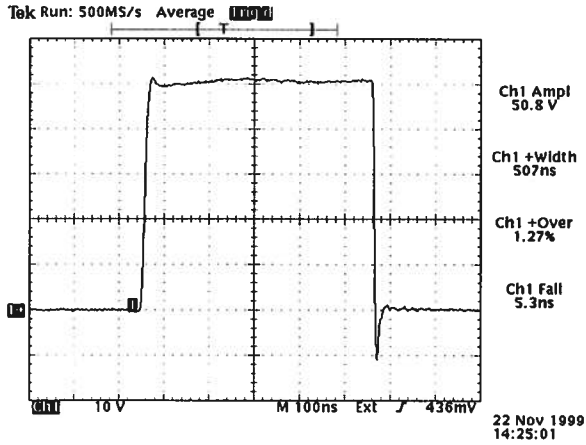


PULSE GENERATOR
PERFORMANCE CHECK

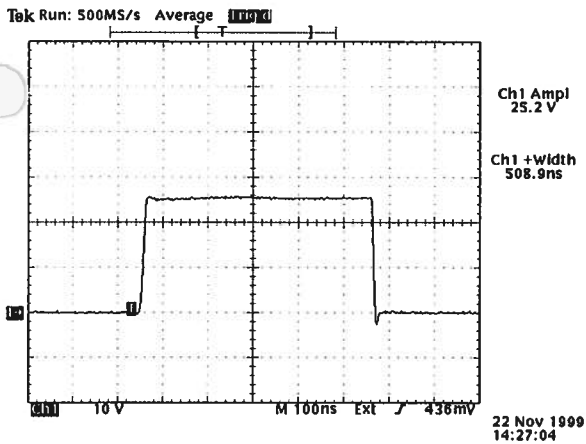
Model: AV-1015-B

S.N.: 9109

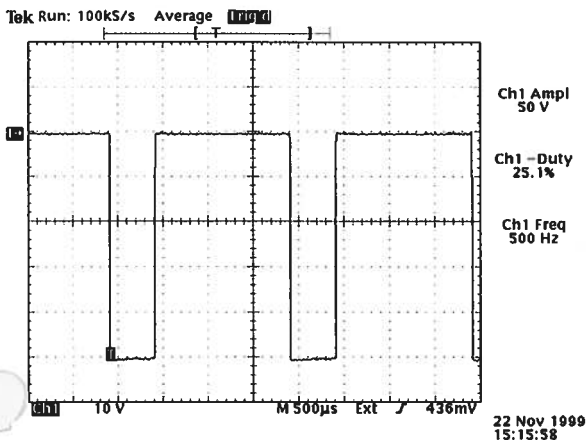
Date: November 22, 1999



+50V amplitude, 50Ω load, Z_{OUT} = 2Ω, PW = 500 ns



+50V amplitude, 50Ω load, Z_{OUT} = 50Ω, PW = 500 ns



-50V into 50Ω load, Z_{OUT} = 2Ω,
500 us PW, 500 Hz PRF, 10V/div, 500 us/div

- a) Output Signal Amplitude: 0 to ±50V ✓
- b) Pulse Width: 20 ns - 10 ms, 25% duty cycle ✓
- c) Rise Time: ≤ 10 ns ✓
- d) Fall Time: ≤ 10 ns ✓
- e) PRF: 0.1Hz - 10 MHz ✓
- f) Jitter, Stability: OK ✓
- g) Prime Power: 120/240V AC, 50-60 Hz, ✓



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:	November 22, 1999				Tester:	MJC
Programmed model name:	AV-1015-B					
Programmed serial number:	9109					
Firmware revision:	2.07					
Internal trigger checked at:	0.1 Hz	10 Hz	1 kHz	100 kHz	10 MHz	
Actual measured output ¹ :	0.1000 Hz	10.04 Hz	1.003 kHz	99.4 kHz	9.97 MHz	
External trigger checked:	Yes			Gate checked:	Yes	
Trigger load resistor present:	Yes					
Manual trigger checked:	Yes					
Pulse compression checked:	Yes					
Pulse width checked at:	20 ns	2 us	200 us	10 ms	At +50V into	
Actual measured output ² :	18.9 ns	2.013 us	201.3 us	10.03 ms	50Ω, 2Ω Z _{OUT}	
PW _{in} = PW _{out} mode checked:	Yes			DC mode checked:	N/A	
Duty Cycle Limit:	25% for 50 Ohm loads, 80% for 10 kΩ loads					
Delay nulled:	Yes					
Delay checked at:	100 ns	10 us	1 ms	10 ms		
Actual measured output ¹ :	102 ns	10.04 us	0.996 ms	9.99 ms		
Double pulse checked:	Yes					
Invert mode checked:	N/A					
ECL/TTL modes checked:	N/A					
Zout switch checked:	Yes					
Amplitude checked at:	+1 V	-10 V	+30 V	-50 V	At 100 Hz,	
Actual measured output ² :	+1.02 V	-10.1 V	+30.4 V	-50.4 V	100 us PW	
Amplitude polarity:	+/-					
Zout calibration:	N/A					
Electronic amplitude control:	Yes					
External amplify mode:	N/A					
Ultraviolet flux removed:	Yes					
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:	86		
Overload Trigger Resistance:	Trips at:	N/A	Installed:	6.2k	Tested	
DC fuses:	Positive:	2.0 A	Negative:	N/A		
AC Current at 115 VAC:	Quiescent:	0.42 A	Max. Load:	0.69 A		
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.