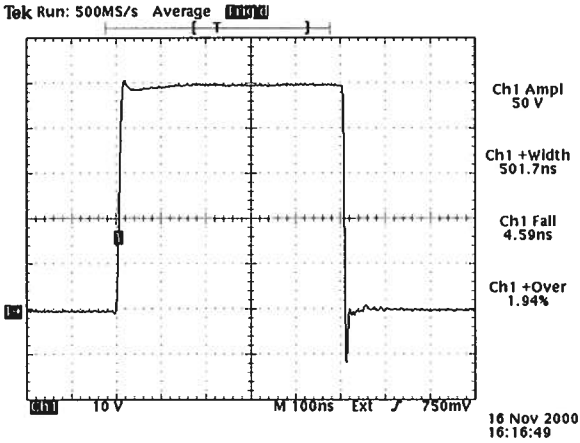


PULSE GENERATOR
PERFORMANCE CHECK

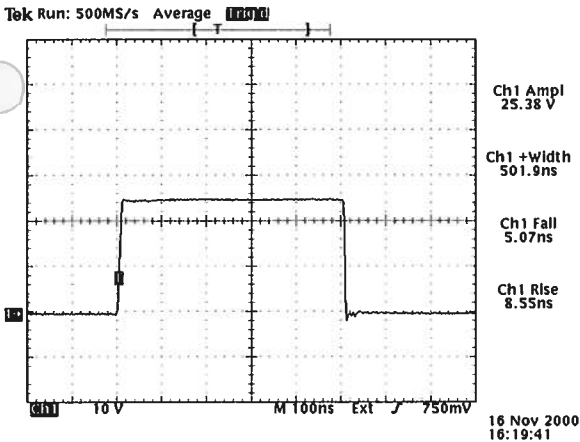
Model: AV-1015-B

S.N.: 9637

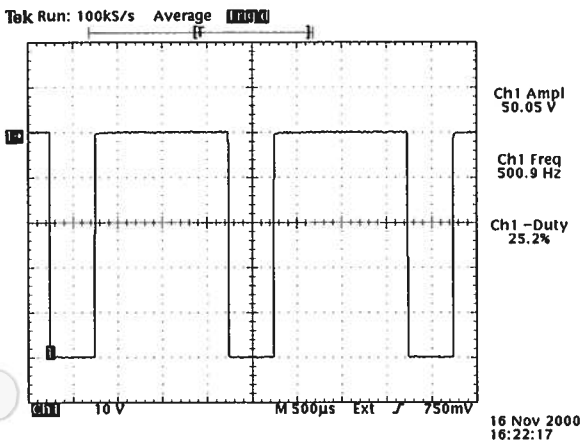
Date: November 16, 2000



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

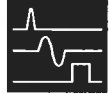


+50V amplitude, 50Ω load, $Z_{OUT} = 50\Omega$, PW = 500 ns



-50V into 50Ω load, $Z_{OUT} = 2\Omega$,
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, ✓

AVTECH**AVTECH ELECTROSYSTEMS LTD.**NANOSECOND WAVEFORM ELECTRONICS
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"-B" Functional Test & Calibration Certificate

Date of test:	November 16, 2000				Tester:	MJC
Programmed model name:	AV-1015-B					
Programmed serial number:	9637					
Firmware revision:	2.22					
Internal trigger checked at:	0.1 Hz	10 Hz	1000 Hz	100 kHz	10 MHz	
Actual measured output ¹ :	0.0995 Hz	9.99 Hz	999 Hz	100.0 kHz	10.05 MHz	
External trigger checked:	yes			Gate checked:	yes	
Trigger load resistor present:	yes					
Manual trigger checked:	yes					
Pulse compression checked:	yes		Low Amplitude PW Distortion Nulled:			N/A
Pulse width checked at:	100 ns	10 us	1 ms	10 ms	10 Hz, +50V, into 50 Ohms	
Actual measured output ² :	96 ns	10.0 us	1.01 ms	10.0 ms		
PWin = PWout mode checked:	yes			DC mode checked:	N/A	
Duty Cycle Limit:	25%					
Delay nulled:	yes					
Delay checked at:	1 us	10 us	1 ms	10 ms	10 Hz, +50V into 50 Ohms	
Actual measured output ¹ :	1.000 us	10.00 us	1.001 ms	9.994 ms		
Double pulse checked:	yes					
Invert mode checked:	N/A					
ECL/TTL modes checked:	N/A					
Zout switch checked:	yes					
Amplitude checked at:	-5V	+10V	-20V	+50V	10 Hz, 10us, into 50 Ohms	
Actual measured output ² :	-4.96V	+10.0V	-20.4V	+50.4V		
Amplitude polarity:	+/-					
Zout calibration:	N/A					
Electronic amplitude control:	OK					
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:	108		
Overload Trigger Resistance:	Trips at:	N/A	Installed:	6.9k		
DC fuses:	Positive:	2A	Negative:	N/A		
AC Current at 115 VAC:	Quiescent:	0.44A	Max. Load:	0.70A		
AC fuse:	1A					
Photographed:	yes					

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

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