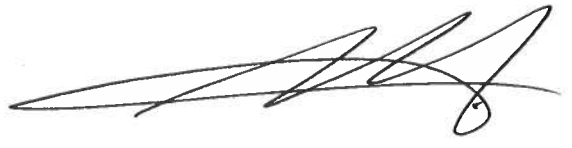


PULSE GENERATOR
PERFORMANCE CHECK

Model: *AVRH-3-B-F*
S.N.: *10974*
Date: *AUG 06 2004*

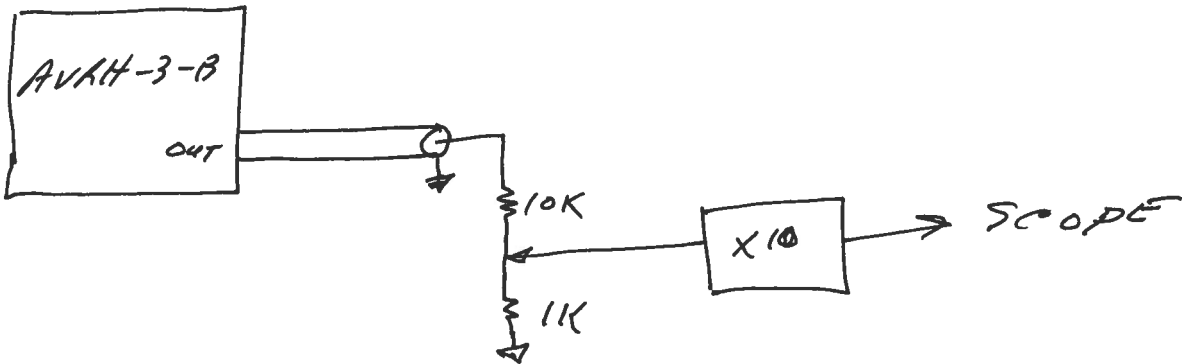
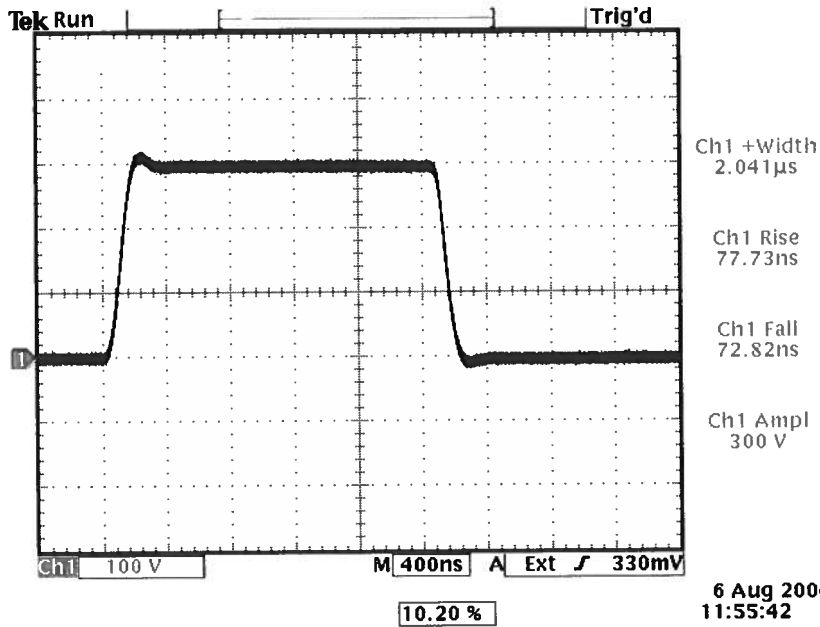
- a) Output signal amplitude:
0 to +3000V (to $R_L \geq 10K$)
- b) Pulse width:
200NS to 2.5 μ S
- c) Rise time:
 ≤ 100 NS
- d) Fall time:
 ≤ 100 NS
- e) PRF:
0 to 1 KHz
- f) Jitter, stability:
OK
- g) Prime power:
100 \rightarrow 240V
50 - 60 HZ



10974

$R_L \approx 10K$

$f_{RT} = 100 \text{ MHz}$





AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS
SINCE 1975

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BOX 5120, LCD MERIVALE
OTTAWA, ONTARIO
CANADA K2C 3H4
TEL: (613) 226-5772
FAX: (613) 226-2802

"-B" Functional Test & Calibration Certificate

Date of test:	August 6, 2004				Tester:	MJC
Programmed model name:	AVRH-3-B-P					
Programmed serial number:	10974	MAC address:	N/A			
Firmware revision:	2.58					
Internal trigger checked at:	1 Hz	10 Hz	100 Hz	1000 Hz		
Actual measured output ¹ :	1.015 Hz	10.14 Hz	101.3 Hz	1013 Hz		
External trigger checked:	Yes				Gate checked:	Yes
Manual trigger checked:	Yes					
Pulse compression checked:	Yes		Low Amplitude PW Distortion Nulled:			
Pulse width checked at:	200 ns	1 us	2.5 us		10 Hz, +3 kV to 10 kΩ	
Actual measured output ² :	204 ns	1.004 us	2.54 us			
PWin = PWout mode checked:	Yes				DC mode checked:	
Duty Cycle Limit:	N/A					
Delay nulled:	Yes					
Delay checked at:	100 ns	1 us	10 us	100 us	5 Hz, +3 kV to 10 kΩ	
Actual measured output ¹ :	100.3 ns	1.007 us	10.06 us	100.5 us		
Double pulse checked:	N/A					
Invert mode checked:	N/A					
ECL/TTL modes checked:	N/A					
Zout switch checked:	N/A					
Amplitude checked at:	+100 V	+1 kV	+2 kV	+3 kV	10 Hz, 2.5 us to 10 kΩ	
Actual measured output ² :	+99.6 V	+1.00 kV	+2.01 kV	+3.01 kV		
Amplitude polarity:	+					
Zout calibration:	N/A					
Electronic amplitude control:	N/A					
External amplify mode:	N/A					
Bleeder resistors adequate:	N/A					
Burst mode:	N/A					
Monitor V/I Ratio:	N/A				Monitor offset nulled:	
LCD Monitor calibrated:	N/A					
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					
LCD pull-ups installed:	N/A					
PCB 108G/H resistor updates:	OK					
PN trigger pull-downs installed:	N/A					
Sync pulse width checked:	Yes					
Circuit Boards:	PS:	158F	Main:	108H		
Overload Trigger Resistance:	Trips at:	N/A	Installed:	6.2k		
DC fuses:	Main:	1.6A	Overload:	1.0A		
AC Current:	Quiescent:	0.22A @ 115V	Max. Load:	0.39A @ 115V		
		0.17A @ 230V		0.23A @ 230V		
AC fuse:	0.5A					
1.5 kV RMS, 5 second Hypot Test:	OK					
25A RMS Ground Continuity Test:	OK					
Fan operational:	Yes					
Photographed:	Yes					

¹ Checked with: Fluke PM6681 Counter (S/N 9446 066 81016), referenced to Datum ExacTime 9390-6000 (S/N 4461) GPS Frequency Reference

² Checked with: Tektronix TDS3052 digital oscilloscope (S/N B014783) for PW ≥ 5 ns, Tektronix 7704A/7S11/7T11/S4 sampling oscilloscope (Cal. Label 112506) for PW < 5 ns.