

PULSE GENERATOR
PERFORMANCE CHECK

Model: *MVRH-2-B-F*

S.N.: *10891*

Date: *APRIL 15 2004*

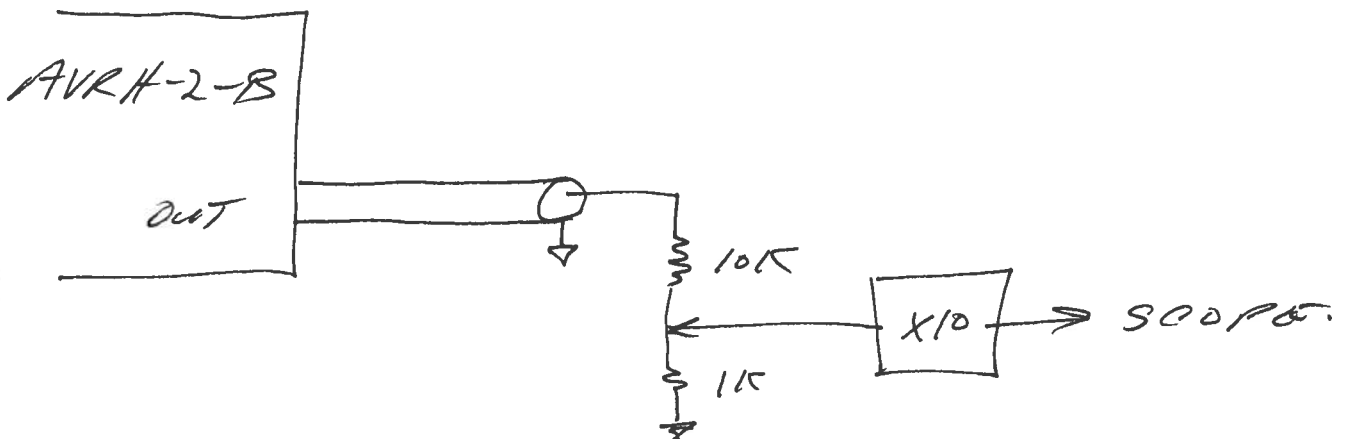
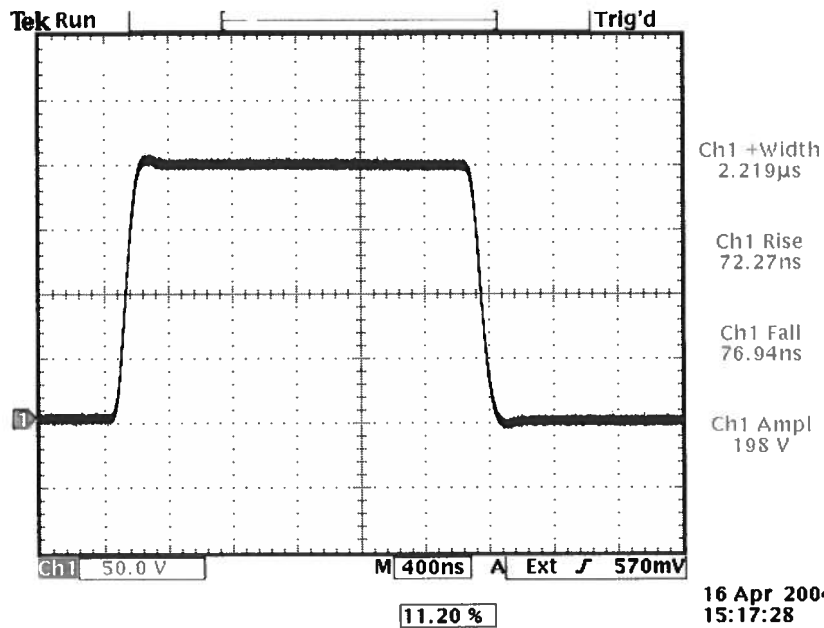
- a) Output signal amplitude:
0 to +2000V (R.L. $\geq 10\Omega$)
- b) Pulse width:
200ns to 2.5 μ s
- c) Rise time:
 ≤ 80 ns
- d) Fall time:
 ≤ 80 ns
- e) PRF: *0 to 1 kHz.*
- f) Jitter, stability:
OK
- g) Prime power:
100 \rightarrow 240V
50.5 \pm 60 Hz.



10891

$R_L \sim 10K$

$PAT \sim 100Hz$





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"-B" Functional Test & Calibration Certificate

Date of test:	April 16, 2004				Tester:	MJC
Programmed model name:	AVRH-2-B-P					
Programmed serial number:	10891					
Firmware revision:	2.58					
Internal trigger checked at:	1 Hz	10 Hz	100 Hz	1000 Hz		
Actual measured output ¹ :	0.999 Hz	10.01 Hz	100.0 Hz	1001 Hz		
External trigger checked:	OK				Gate checked:	OK
Manual trigger checked:	OK					
Pulse compression checked:	Yes	Low Amplitude PW Distortion Nulled:			N/A	
Pulse width checked at:	200 ns	500 ns	1 us	2.5 us	10 Hz, +2 kV to 10 kΩ	
Actual measured output ² :	196 ns	518 ns	0.997 us	2.54 us		
PWin = PWout mode checked:	OK				DC mode checked:	N/A
Duty Cycle Limit:	N/A					
Delay nulled:	Yes					
Delay checked at:	100 ns	1 us	100 us	10 ms	10 Hz, +2 kV to 10 kΩ	
Actual measured output ¹ :	100 ns	1.001 us	100.0 us	10.01 ms		
Double pulse checked:	N/A					
Invert mode checked:	N/A					
ECL/TTL modes checked:	N/A					
Zout switch checked:	N/A					
Amplitude checked at:	+200V	+500V	+1000V	+2000V	10 Hz, +2.5 us to 10 kΩ	
Actual measured output ² :	+200V	+500V	+1000V	+2010V		
Amplitude polarity:	+					
Zout calibration:	N/A					
Electronic amplitude control:	N/A					
External amplify mode:	N/A					
Bleeder resistors adequate:	Yes					
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:	Yes					
PN trigger pull-downs installed:	N/A					
Sync pulse width checked:	100 ns					
Circuit Boards:	PS:	158F	Main:	108H		
Overload Trigger Resistance:	Trips at:	N/A	Installed:	12k		
DC fuses:	Main:	1.6A	Overload:	0.5A		
AC Current:	Quiescent:	0.22A @ 115V	Max. Load:	0.30A @ 115V		
		0.16A @ 230V		0.19A @ 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.