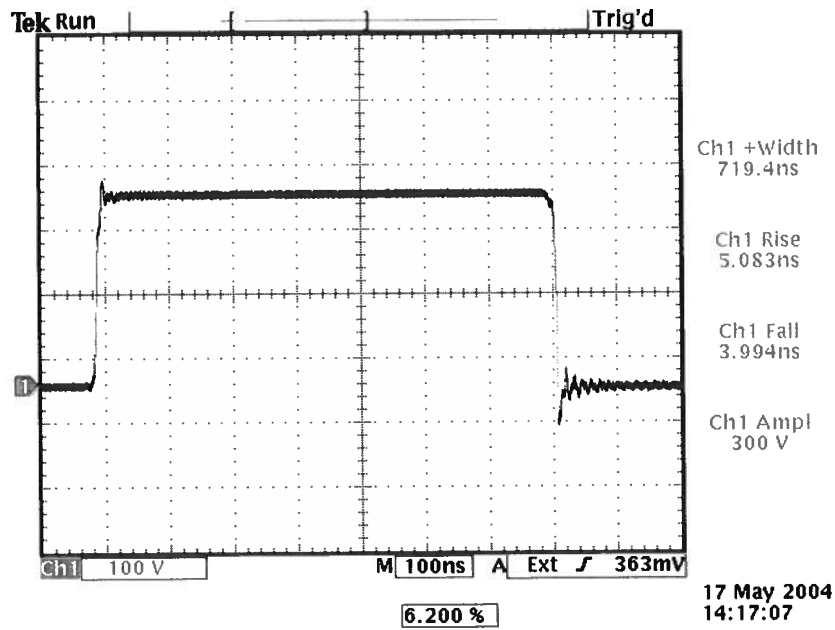


PULSE GENERATOR
PERFORMANCE CHECK

Model: *AVR1-3-B-PN*
S.N.: *10896*
Date: *MAY 17 2004*

- a) Output signal amplitude:
0 to ±300V (to 50Ω)
- b) Pulse width:
100ns to 1.00s
- c) Rise time:
≤ 5ns
- d) Fall time:
≤ 5ns
- e) PRF:
0 to 1 kHz
- f) Jitter, stability:
OK
- g) Prime power:
100 → 240V
50-60 Hz

10896
POS OUT
 $R_L = 50\Omega$
 $R_{HF} = 1K\Omega$

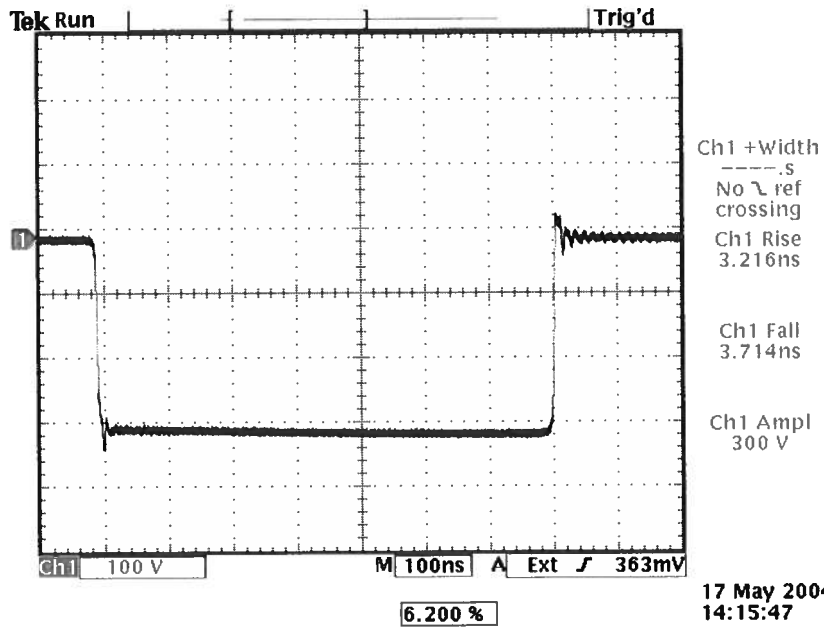


10896

NEG. OUT

$R_c = 50\Omega$

PRT = 1 kHz





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/

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:		May 17, 2004			Tester: MJC	
Programmed model name:		AVRF-3-B-PN				
Programmed serial number:		10896				
Firmware revision:		2.58				
Internal trigger checked at:		1 Hz	10 Hz	100 Hz	1000 Hz	
Actual measured output ¹ :		1.006 Hz	10.02 Hz	100.1 Hz	1000 Hz	
External trigger checked:		Yes			Gate checked: Yes	
Manual trigger checked:		Yes				
Pulse compression checked:		N/A			Low Amplitude PW Distortion Nulled: N/A	
Pulse width checked at:		100 ns	300 ns	1 us		1 kHz, +300V
Actual measured output ² :		100.3 ns	306 ns	0.992 us		to 50Ω
PWin = PWout mode checked:		Yes			DC mode checked: N/A	
Duty Cycle Limit:		N/A				
Delay nulled:		Yes				
Delay checked at:		100 ns	1 us	10 us	100 us	1 kHz, +300V
Actual measured output ¹ :		102 ns	1.007 us	10.07 us	100.7 us	to 50Ω
Double pulse checked:		N/A				
Invert mode checked:		N/A				
ECL/TTL modes checked:		N/A				
Zout switch checked:		N/A				
Amplitude checked at:		-30V	+100V	-200V	+300V	1 kHz, 1 us to
Actual measured output ² :		-30.8V	+102V	-206V	+303V	50Ω
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:		Yes				
Sync pulse width checked:		100 ns nominal				
Circuit Boards:		PS:	158E	Main:	108H	
Overload Trigger Resistance:		Trips at:	N/A	Installed:	15k	
DC fuses:		Main:	1.6A	Overload:	0.5A	
AC Current:		Quiescent:	0.31A @ 115V	Max. Load:	0.39A @ 115V	
			0.20A @ 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.