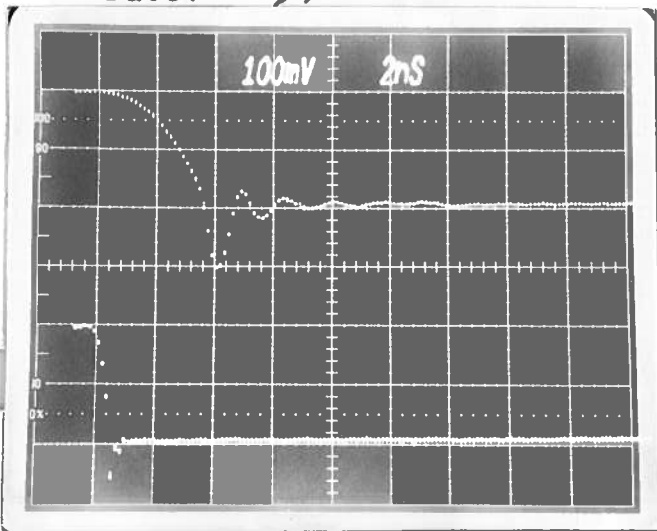


PULSE GENERATOR
PERFORMANCE CHECK

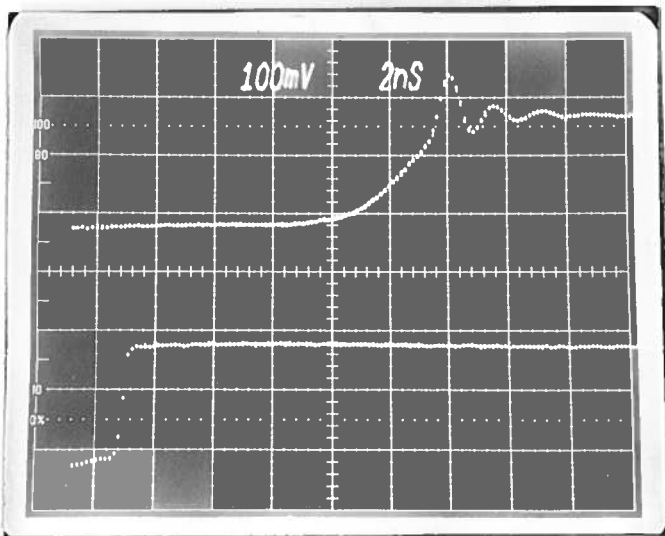
Model: *AVRF-2-B-PN-MSA1*

S.N.: *10867*

Date: *APRIL 12 2004*



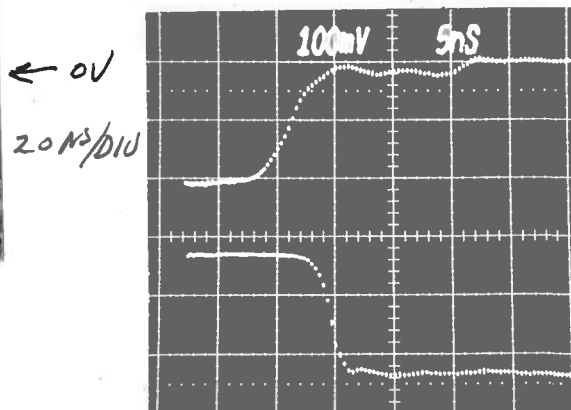
PG-P FALL TIME, 100V/DIV



PG-N FALL TIME, 100V/DIV

PRF = 1KHz

- 2ns/div* a) Output signal amplitude:
0 TO ±200V (TO 50Ω)
- ← 0V* b) Pulse width:
100 ns TO 5.0 μs
- 10ns/div* c) Rise time:
≤ 2 ns
- ← 0V* d) Fall time:
≤ 2 ns
- e) PRF:
0 TO 1KHz
- f) Jitter, stability:
OK
- ← 0V* g) Prime power:
100 → 240V
50 - 60 kHz



PG-P RISE TIME

PG-N RISE TIME

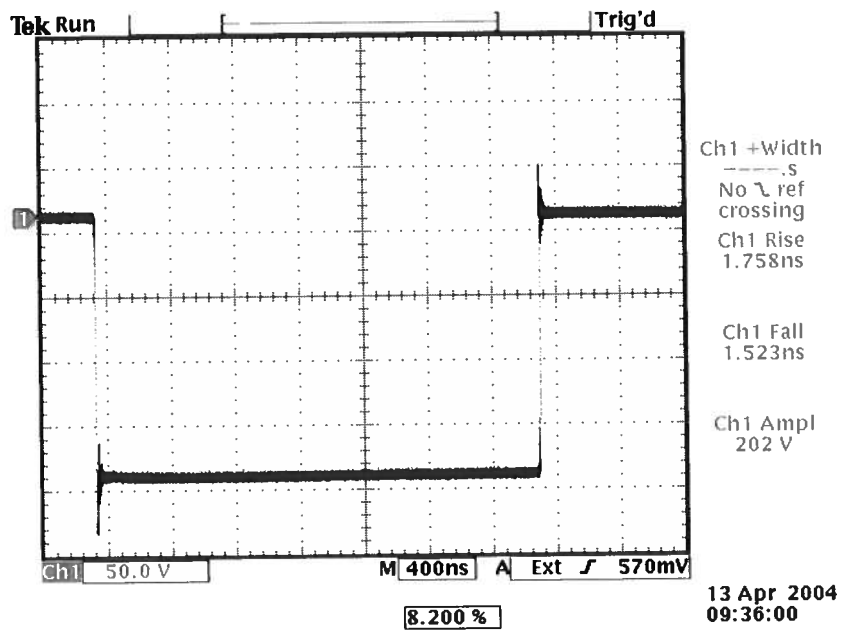
100V/DIV
PRF = 1KHz

10867.

N_{out}

$R_c = 50 \Omega$

300 MHz TECH SCOPE.

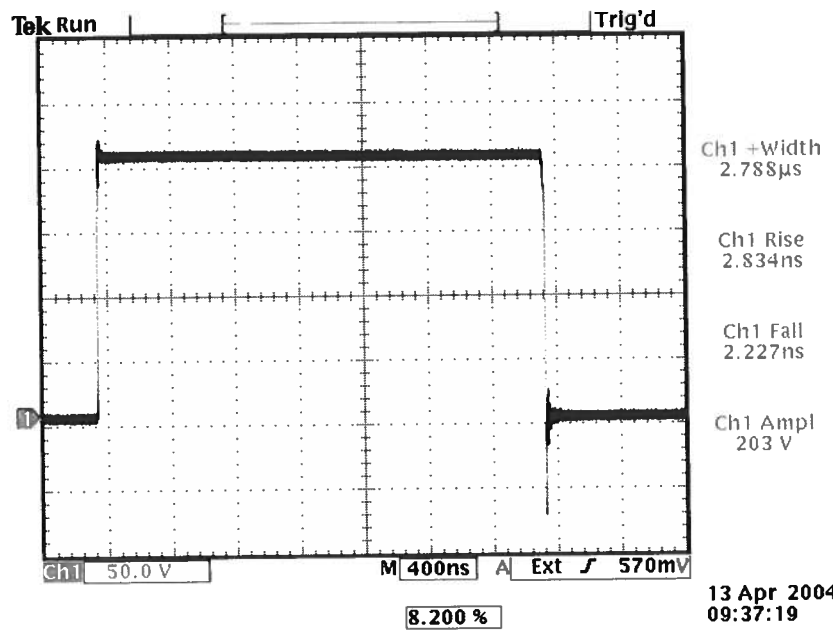


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Power

$R_L = 50 \Omega$

300 MHz TCM 90dB





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:	April 13, 2004				Tester:	MJC
Programmed model name:	AVRF-2-B-PN-MSA1					
Programmed serial number:	10867					
Firmware revision:	2.57					
Internal trigger checked at:	1 Hz	10 Hz	100 Hz	1000 Hz		
Actual measured output ¹ :	1.010 Hz	10.08 Hz	101.0 Hz	1007 Hz		
External trigger checked:	Yes			Gate checked:	Yes	
Manual trigger checked:	Yes					
Pulse compression checked:	Yes (+/-)		Low Amplitude PW Distortion Nulled:		N/A	
Pulse width checked at:	100 ns	300 ns	1 us	5 us	100 Hz, +200V to 50Ω	
Actual measured output ² :	98 ns	308 ns	1.01 us	4.98 us		
PWin = PWout mode checked:	Yes			DC mode checked:	N/A	
Duty Cycle Limit:	0.5%					
Delay nulled:	Yes					
Delay checked at:	100 ns	1 us	100 us	1 ms	100 Hz, +200V to 50Ω	
Actual measured output ¹ :	101 ns	0.999 us	100.1 us	0.999 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:	-20V	+50V	-100V	+200V	100 Hz, 5 us, to 50Ω	
Actual measured output ² :	-20.1V	+49.6V	-99.6V	+199V		
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 104C)					
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:	11k		
DC fuses:	Main:	2A	Overload:	0.8A		
AC Current:	Quiescent:	0.35A @ 115V 0.22A @ 230V	Max. Load:	0.46A @ 115V 0.26A @ 230V		
AC fuse:	0.8A (for 115V)					
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 ExactTime 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.