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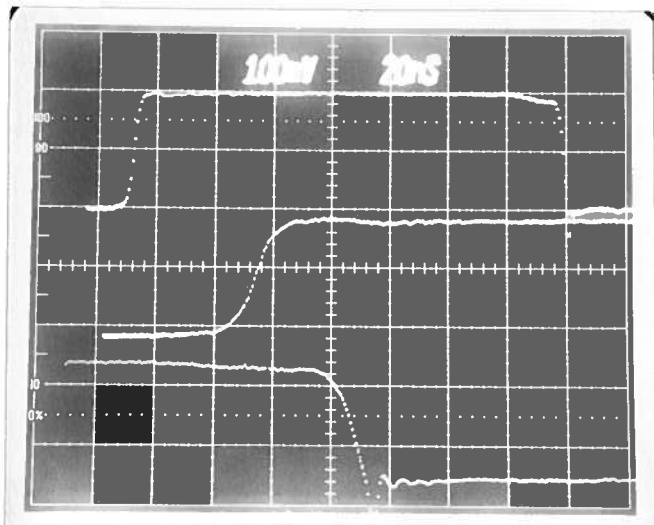
BOX 5120, LCD MERIVALE  
 OTTAWA, ONTARIO  
 CANADA K2C 3H4  
 TEL: (613) 226-5772  
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PERFORMANCE CHECKSHEET

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

S.N.: *11181*

Date: *APRIL 15 2005*



- a) Output Signal Amplitude:  
*0 TO ±200V TO 50Ω*
- ① b) Pulse Width(FWHM):  
*100 NS TO 5 μS*
- ② c) Rise Time (20%-80%):  
*≤ 2 NS*
- ③ d) Fall Time (80%-20%):  
*≤ 2 NS*

*60 dB ATTEN.: 100V/DIV*

e) PRF: *0 TO 1 kHz*

① *20 NS / DIV*

f) Jitter, Stability: *OK*

② *5 NS / DIV (RISE TIME)*

g) Prime Power: *100-240V*

③ *5 NS / DIV (FALL TIME)*

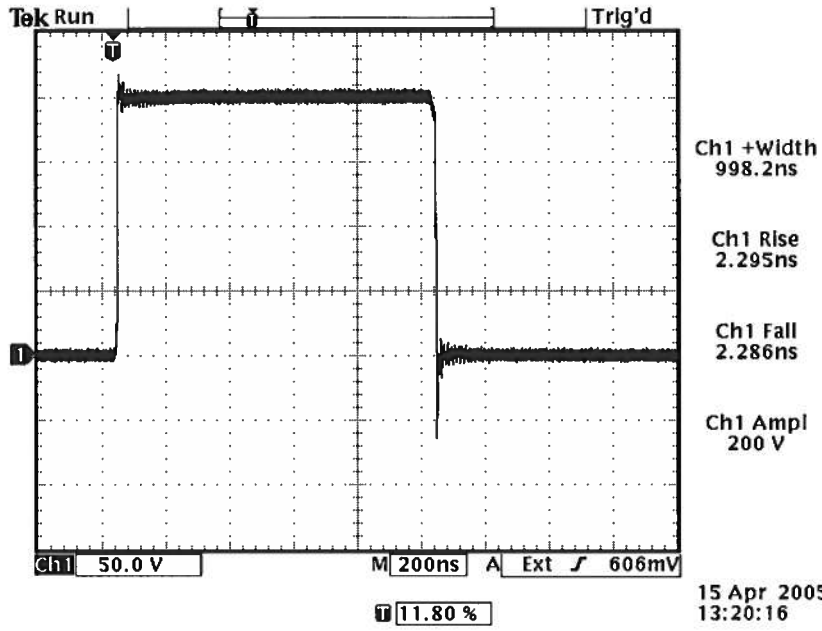
*50-60kHz*

*PRF = 1 kHz*

*PDS OUT.*

(A)

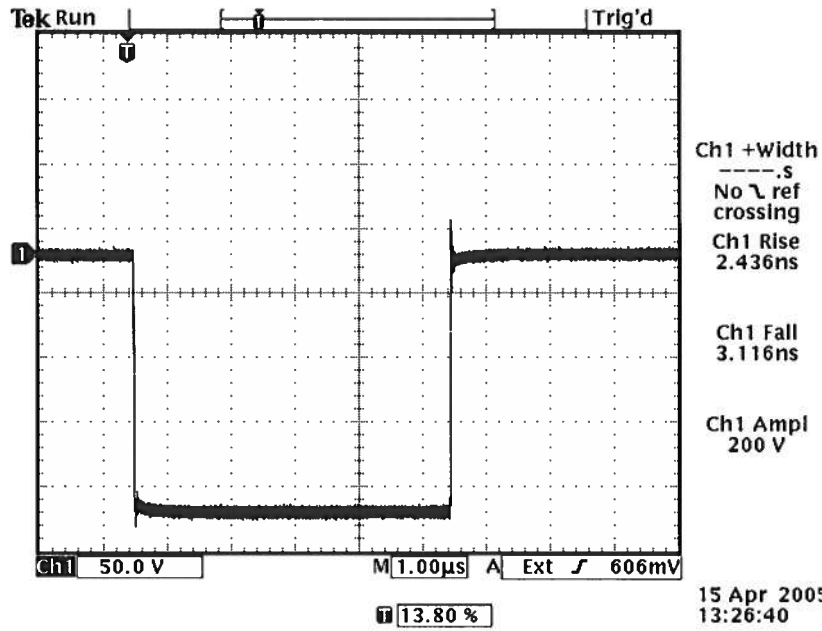
11181  
POS OUT  
 $R_L = 50 \Omega$



300 MHz SCOPE  
(TEK TDS 3032)

(B)

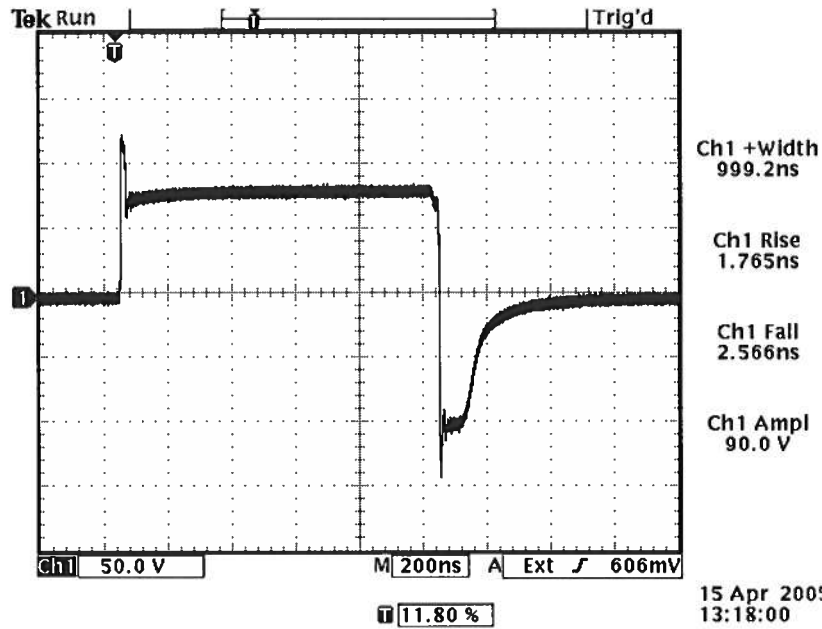
11181  
NEG out  
 $R_L = 50 \Omega$



300 MHz SCOPE  
(TEK TDS 3032)

©

11181  
WITH AUX-TD-MASA  
& IN4935 DIODE-TRR



$V_{\text{PULSE}} : + 180\text{V}$   
 $V_{\text{DC}} : - 100\text{VDC}$   
 $\text{PW} : 1\ \mu\text{s}$



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### "-B" Functional Test & Calibration Certificate

Date of test:	April 15, 2005				Tester:	MJC
Programmed model name:	AVRF-2-B-PN-MSA1					
Programmed serial number:	11181	MAC address:	00:90:c2:c4:71:67			
Firmware revision:	3.25					
Internal trigger checked at:	1 Hz	10 Hz	100 Hz	1000 Hz		
Actual measured output <sup>1</sup> :	0.998 Hz	9.96 Hz	99.7 Hz	997 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	1 us	5 us	100 Hz, +200V to 50 Ohms		
Actual measured output <sup>2</sup> :	101 ns	1.001 us	4.98 us			
PW <sub>in</sub> = PW <sub>out</sub> mode checked:	Yes			DC mode checked:	N/A	
Duty Cycle Limit:	0.5%					
Delay nulled:	Yes					
Delay checked at:	100 ns	1 us	10 us	100 us	100 Hz, +200V to 50 Ohms	
Actual measured output <sup>1</sup> :	100.2 ns	1.000 us	10.00 us	99.97 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:	-20V	+50V	-100V	+200V	100 Hz, 5 us, to 50 Ohms	
Actual measured output <sup>2</sup> :	-19.9V	+50.6V	-99.2V	+201V		
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 <sup>2</sup> :	N/A					
Offset nulled (output on):	N/A			Amplitude-dependent offset nulled:		
Offset nulled (output off):	N/A					
RS-232 checked:	Yes			Telnet control checked:	N/A	
LCD pull-ups installed:	N/A					
PCB 108H oscillator buffer resistor:	N/A			PW, delay bias (1k/820/108H or 1k/604/108M):	1k/604/108M	
PRF/PW/Delay leakage current:	OK					
PN trigger pull-downs installed:	N/A					
Sync pulse width checked:	100 ns					
Circuit Boards:	PS:	158H	Main:	108M4		
Overload Trigger Resistance:	Trips at:	N/A	Installed:	6.2k		
DC fuses:	Main:	2A	Overload:	0.8A		
AC Current:	Quiescent:	0.36A @ 115V 0.22A @ 230V	Max. Load:	0.49A @ 115V 0.27A @ 230V		
AC fuse:	0.8A (for 120V operation)					
1.5 kV <sub>RMS</sub> , 5s, switch on, Hypot Test:	OK					
25A RMS Ground Continuity Test:	OK					
Fan operational:	Yes					
Top cover vent required:	No					
Photographed:	Yes					

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

<sup>2</sup> 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.