

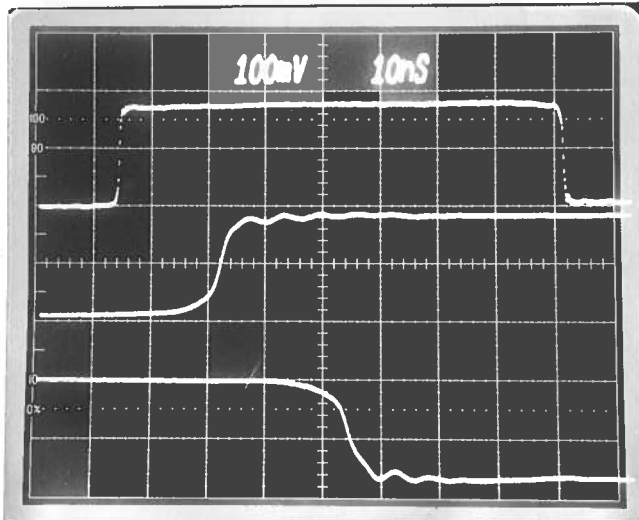
PULSE GENERATOR

PERFORMANCE CHECK

Model: AVR-E2-B-P-05

S.N.: 10761

Date: NOV 20 2003



- a) Output signal amplitude:
0 TO +50 V (TO 50mA)
- b) Pulse width:
20 TO 200 NS
- c) Rise time:
≤ 0.5 μs
- d) Fall time:
≤ 0.5 μs
- e) PRF: 0 TO 100 KHz.
- f) Jitter, stability:
OK
- g) Prime power:
120 — 240 V
50 — 60 Hz.

50 dB ATTEN.: 32 V/DIV

TOP 10 NS/DIV

MID 1 NS/DIV (RISE TIME)

BOT 1 NS/DIV (FALL TIME)

PRF = 100 KHz.



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"-B" Functional Test & Calibration Certificate

Date of test:	November 20, 2003					Tester:	MJC
Programmed model name:	AVR-E2-B-OS-P						
Programmed serial number:	10761						
Firmware revision:	2.53						
Internal trigger checked at:	10 Hz	100 Hz	1 kHz	10 kHz	100 kHz		
Actual measured output ¹ :	10.02 Hz	100.1 Hz	1.002 kHz	9.987 kHz	100.0 kHz		
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:	20 ns	50 ns	100 ns	200 ns	10 kHz, +50V to 50Ω		
Actual measured output ² :	19.0 ns	51.5 ns	103.7 ns	205 ns			
PWin = PWout mode checked:	N/A		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, +50V to 50Ω		
Actual measured output ¹ :	101 ns	1.005 us	10.05 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:	+5V	+10V	+25V	+50V	10 kHz, +50V to 50Ω		
Actual measured output ² :	+5.02V	+10.0V	+25.1V	+50.0V			
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:	Yes (PCB 104C)						
PCB 108G resistor updates:	Yes						
PN trigger pull-downs installed:	N/A						
Sync pulse width checked:	200 ns nominal						
Circuit Boards:	PS:	158E	Main:	108G			
Overload Trigger Resistance:	Trips at:	N/A	Installed:	22k			
DC fuses:	Positive:	1A, 0.5A	Negative:	N/A			
AC Current:	Quiescent:	0.23A @ 115V	Max. Load:	0.30A @ 115V			
		0.17A @ 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 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.