

PULSE GENERATOR

PERFORMANCE CHECK

Model: AVO-8C-B-N-M-NRL1*

S.N.: 9151

Date: JAN 26 2000

- a) Output signal amplitude:
0 TO -40 VOLTS TO R_L > 0.2 Ω
(200 AMP MAX)
- b) Pulse width:
2 μ S TO 1 μ S
- c) Rise time: (+ DC)
 \leq 1 μ S
- d) Fall time:
 \leq 1 μ S
- e) PRF: 0 TO 5 KHz
- f) Jitter, stability:
O.K.
- g) Prime power: a) 120/240 V
50-60 Hz
b) 0 TO -40 VDC
100 AMP LOAD
SUPPLY.

* -NRL1 SUFFIX DENOTES
A MAX PRF OF 5 KHz
IN PLACE OF STANDARD
1 KHz.

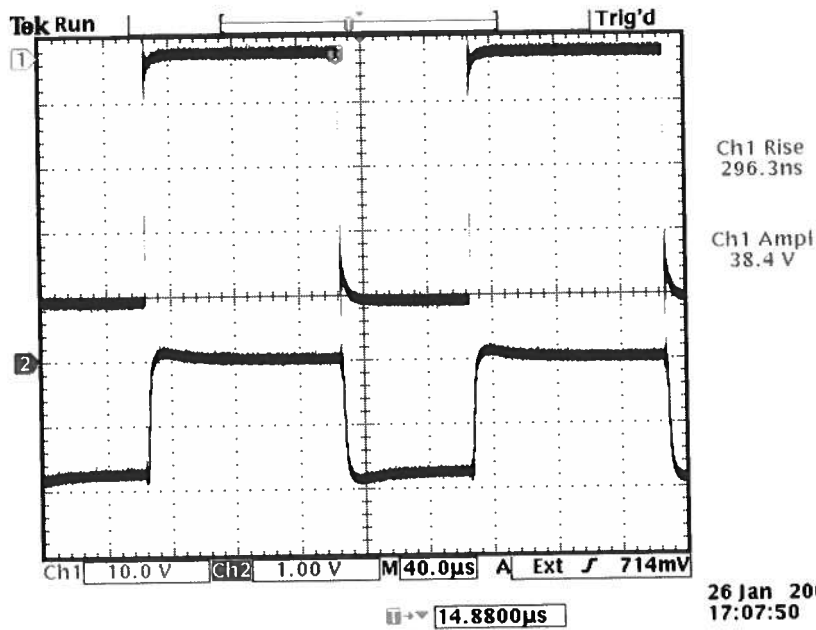
$$R_c = 0.2 \Omega$$

$$PRF = 5 \text{ KHz}$$

$$40 \text{ ns / DIV}$$

V_{LOAD}

V_{MON}

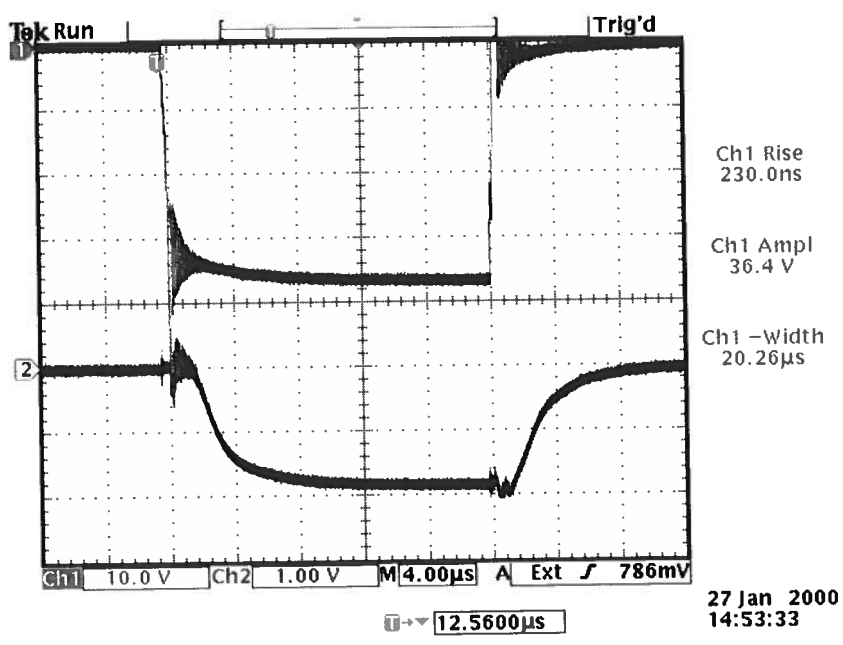


26 Jan 2000
17:07:50

$R_c = 0.2 \Omega$
PRF = 5 kHz.
4 μ s / DIV

V_{LOAD}

V_{MON}



27 Jan 2000
14:53:33



AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS
SINCE 1975

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

P.O. BOX 5120 STN. F
OTTAWA, ONTARIO
CANADA K2C 3H4
TEL: (613) 226-5772
FAX: (613) 226-2802

"-B" Functional Test & Calibration Certificate

Date of test:	January 27, 2000				Tester:	MJC
Programmed model name:	AVO-8C-B-N-M-NRL1					
Programmed serial number:	9151					
Firmware revision:	2.10					
Internal trigger checked at:	0.1 Hz	10 Hz	100 Hz	5 kHz		
Actual measured output ¹ :	0.100 Hz	10.00 Hz	100.1 Hz	5.00 kHz		
External trigger checked:	yes			Gate checked:	yes	
Trigger load resistor present:	yes					
Manual trigger checked:	yes					
Pulse compression checked:	yes					
Pulse width checked at:	2 us	20 us	200 us	2 ms	at 1 Hz, +185A	
Actual measured output ² :	2.01 us	20.2 us	202 us	2.00 MS	into 0.2 Ohms	
PWin = PWout mode checked:	yes			DC mode checked:	N/A	
Duty Cycle Limit:	100%					
Delay nulled:	N/A					
Delay checked at:	20 us	200 us	2 ms	20 ms	checked at	
Actual measured output ¹ :	20.1 us	202 us	2.02 ms	20.1 ms	TTL trigger	
Double pulse checked:	N/A					
Invert mode checked:	N/A					
ECL/TTL modes checked:	N/A					
Zout switch checked:	N/A					
Amplitude checked at:	N/A					
Actual measured output ² :	N/A					
Amplitude polarity:	-					
Zout calibration:	N/A					
Electronic amplitude control:	N/A					
External amplify mode:	N/A					
Ultravolt flux removed:	N/A					
Monitor V/I Ratio:	1V/100A			Monitor offset nulled:	yes	
LCD Monitor calibrated:	yes			Monitor offset nulled:	yes	
Mon. Single Pulse/Min PW OK:	N/A			SHA Cap:	0	
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					
Sync pulse width checked:	200 ns					
Circuit Boards:	PS:	93	Main:	108		
Overload Trigger Resistance:	Trips at:	N/A	Installed:	N/A		
DC fuses:	Positive:	N/A	Negative:	N/A		
AC Current at 115 VAC:	Quiescent:	0.6 A	Max. Load:	0.6 A		
AC fuse:	1 A					
Photographed:	yes					

¹ Checked with: HP5370A Universal Time Interval Counter

² Checked with: Tektronix TDS360 digital oscilloscope for PW ≥ 5 ns,
Tektronix 7704A/7S11/7T11/S4 sampling oscilloscope system for PW < 5 ns.