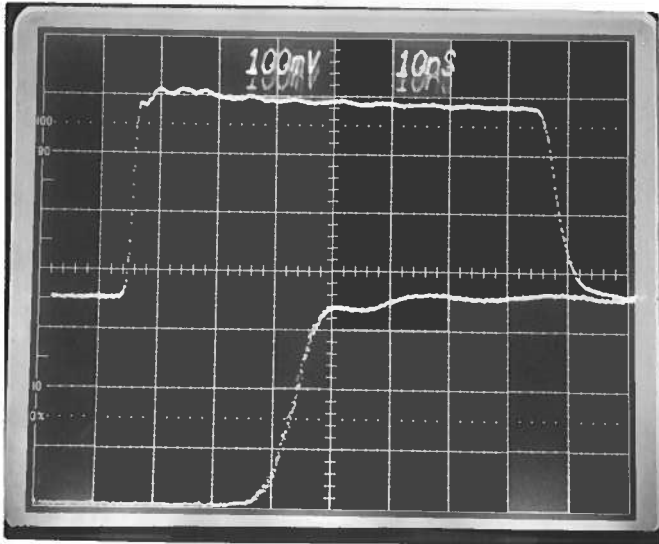


PULSE GENERATOR
PERFORMANCE CHECK

Model: *AVL-2-B-PN-05*

S.N.: *9645*

Date: *DEC 20 2000*



- a) Output signal amplitude: *0 to ±350V (7050Ω)*
- b) Pulse width: *5 to 100ns*
- c) Rise time: *≤ 2 ns*
- d) Fall time: *≤ 3 ns*
- e) PRF: *0 to 5 kHz*
- f) Jitter, stability: *OK*
- g) Prime power: *120/200V*

50-60Hz

60 db ATTN
100 V/DIV
TOP: 10 ns/DIV
BOT: 2 ns/DIV
(RISE TIME)



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:	December 20, 2000				Tester:	MJC
Programmed model name:	AVL-2-B-PN-OS					
Programmed serial number:	9645					
Firmware revision:	2.22					
Internal trigger checked at:	1 Hz	10 Hz	100 Hz	1 kHz	5 kHz	
Actual measured output ¹ :	0.994 Hz	9.92 Hz	99.2 Hz	0.993 kHz	4.97 kHz	
External trigger checked:	yes			Gate checked:	yes	
Trigger load resistor present:	yes					
Manual trigger checked:	yes					
Pulse compression checked:	yes		Low Amplitude PW Distortion Nulled:			N/A
Pulse width checked at:	5 ns	25 ns	50 ns	100 ns	2 kHz, +350V, into 50 Ohms	
Actual measured output ² :	5.0 ns	24.3 ns	49.6 ns	100 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	200 ns	500 ns		2 kHz, +350V, into 50 Ohms	
Actual measured output ¹ :	101.5 ns	199.6 ns	504 ns			
Double pulse checked:	N/A					
Invert mode checked:	N/A					
ECL/TTL modes checked:	N/A					
Zout switch checked:	N/A					
Amplitude checked at:	-50V	+100V	-200V	+350V	2 kHz, 50ns, into 50 Ohms	
Actual measured output ² :	-48V	+100V	-195V	+350V		
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:	N/A			Monitor offset nulled:		
LCD Monitor calibrated:	N/A			Monitor offset nulled:		
Mon. Single Pulse/Min PW OK:	N/A			SHA Cap:		
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:	108B		
Overload Trigger Resistance:	Trips at:	N/A	Installed:	6.2k		
DC fuses:	Positive:	0.5A	Negative:	N/A		
AC Current at 115 VAC:	Quiescent:	0.39A	Max. Load:	0.47A		
AC fuse:	1A					
Photographed:	yes					

¹ Checked with: Fluke PM6681 Counter, referenced to Datum ExacTime 9390-6000 GPS Frequency Reference

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