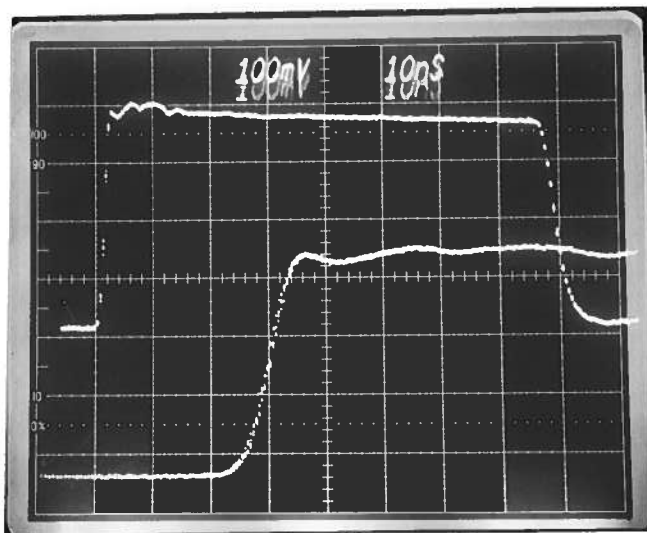


PULSE GENERATOR
PERFORMANCE CHECK

Model: *PUL-2-B PA*
 S.N.: *9994*
 Date: *NOV 16 2001*



- a) Output signal amplitude:
0 TO ±350 V (70.50%)
- b) Pulse width:
5 TO 100 NS
- c) Rise time:
≤ 2 NS
- d) Fall time:
≤ 3 NS
- e) PRF:
0 TO 5KHz.
- f) Jitter, stability:
OK
- g) Prime power:
120/240 V

60 db ATTN

∴ 100 VOLTS/DIV

TOP 10 NS/DIV

BOT 2 NS/DIV
(LEADING EDGE)

50-60 Hz

AVTECH**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:	November 16, 2001				Tester:	MJC
Programmed model name:	AVL-2-B-PN					
Programmed serial number:	9994					
Firmware revision:	2.31					
Internal trigger checked at:	1 Hz	10 Hz	100 Hz	1 kHz	5 kHz	
Actual measured output ¹ :	1.000 Hz	9.977 Hz	99.70 Hz	0.998 kHz	4.99 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:	5 ns	20 ns	50 ns	100 ns	1 kHz, +350V	
Actual measured output ² :	5 ns	20 ns	50 ns	100 ns	to 50 Ohms	
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		1 kHz, +350V	
Actual measured output ¹ :	100 ns	200 ns	503 ns		to 50 Ohms	
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	+300V	1 kHz, 50 ns to	
Actual measured output ² :	-48V	+104V	-200V	+300V	50 Ohms	
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:		
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:	15k		
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 Reference² Checked with: Tektronix TDS3052 digital oscilloscope for PW ≥ 5 ns,
Tektronix 7704A/7S11/7T11/S4 sampling oscilloscope system for PW < 5 ns.