

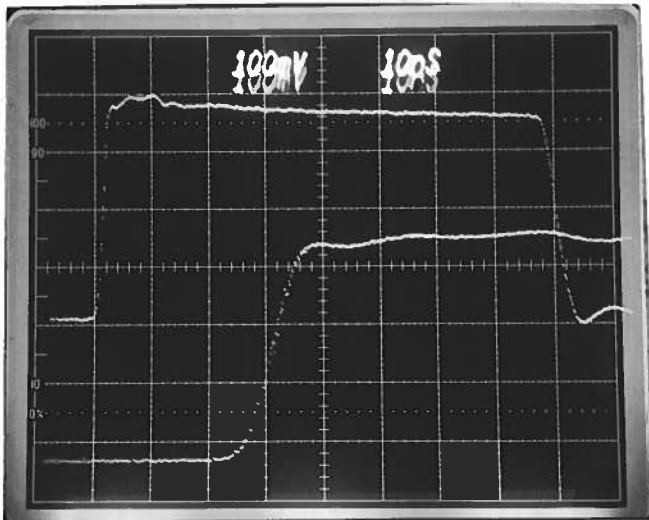
PULSE GENERATOR

PERFORMANCE CHECK

Model: *AVL-2-B-PN*

S.N.: *9124*

Date: *DEC 7 1999*



- a) Output signal amplitude: *0 TO ±350 VOLTS*
- b) Pulse width: *5 TO 500 NS*
- c) Rise time: *≤ 2 NS*
- d) Fall time: *≤ 3 NS*
- e) PRF: *0 TO 5K PD*
- f) Jitter, stability: *OK*
- g) Prime power: *120/240 V*

60 dB ATTN
100 VOLTS/DIV
PAK ≈ 2 DIV



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 7, 1999				Tester:	MJC
Programmed model name:	AVL-2-B-PN					
Programmed serial number:	9124					
Firmware revision:	2.09					
Internal trigger checked at:	1 Hz	10 Hz	100 Hz	1000 Hz	5 kHz	
Actual measured output ¹ :	0.997 Hz	9.96 Hz	99.7 Hz	994 Hz	4.99 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:	20 ns	50 ns	100 ns	At +350V, 2 kHz		
Actual measured output ² :	22 ns	49.5 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			
Actual measured output ¹ :	111 ns	205 ns	510 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:	+75 V	-150 V	+350 V	At 2 kHz, 50 ns pulse width		
Actual measured output ² :	+71 V	-145 V	+348 V			
Amplitude polarity:	+/-					
Zout calibration:	N/A					
Electronic amplitude control:	N/A					
External amplify mode:	N/A					
Ultraviolet 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:	108		
Overload Trigger Resistance:	Trips at:	N/A	Installed:	6.2k		
DC fuses:	Positive:	0.5 A	Negative:	N/A		
AC Current at 115 VAC:	Quiescent:	0.40 A	Max. Load:	0.47 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.