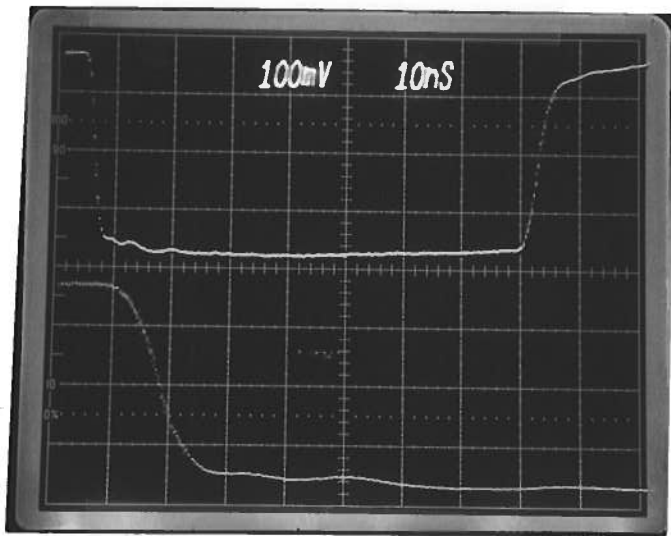


PULSE GENERATOR  
PERFORMANCE CHECK

Model: *AVL-2-B-N-1M-05*

S.N.: *9790*

Date: *JUNE 14 2001*



- a) Output signal amplitude:  
*0 TO -350 V (TO 50%)*
- b) Pulse width:  
*5 TO 100 NS*
- c) Rise time:  
*≤ 2 NS*
- d) Fall time:  
*≤ 3 NS*
- e) PRF:  
*0 TO 5 KHz*
- f) Jitter, stability:  
*OK*
- g) Prime power:

*60 db ATTN*

*100 VOLTS/DIV*

*TOP: 10 NS/DIV*

*BOT: 2 NS/DIV  
(RISE TIME)*

*PRF = 2.0 KHz.*

*120/240V  
50-60Hz.*



**AVTECH ELECTROSYSTEMS LTD.**  
 NANOSECOND WAVEFORM ELECTRONICS  
 SINCE 1975

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## "-B" Functional Test & Calibration Certificate

Date of test:	June 13, 2001				Tester:	MJC
Programmed model name:	AVL-2-B-N-M-OS					
Programmed serial number:	9790					
Firmware revision:	2.25					
Internal trigger checked at:	1 Hz	10 Hz	100 Hz	1 kHz	5 kHz	
Actual measured output <sup>1</sup> :	0.995 Hz	9.94 Hz	99.3 Hz	0.990 kHz	4.983 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	15 ns	50 ns	100 ns	1 kHz, -350V to 50 Ohms	
Actual measured output <sup>2</sup> :	4.94 ns	14.1 ns	48.7 ns	100.1 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	1 kHz, -350V to 50 Ohms		
Actual measured output <sup>1</sup> :	101.3 ns	195 ns	500 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:	-100 V	-200 V	-300 V	-350 V	1 kHz, 100 ns to 50 Ohms	
Actual measured output <sup>2</sup> :	-102 V	-204 V	-303 V	-354 V		
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 <sup>2</sup> :	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:	0.43A	Max. Load:	0.50A		
AC fuse:	1A					
Photographed:	yes					

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

<sup>2</sup> Checked with: Tektronix TDS3052 digital oscilloscope for PW ≥ 5 ns,  
 Tektronix 7704A/7S11/7T11/S4 sampling oscilloscope system for PW < 5 ns.