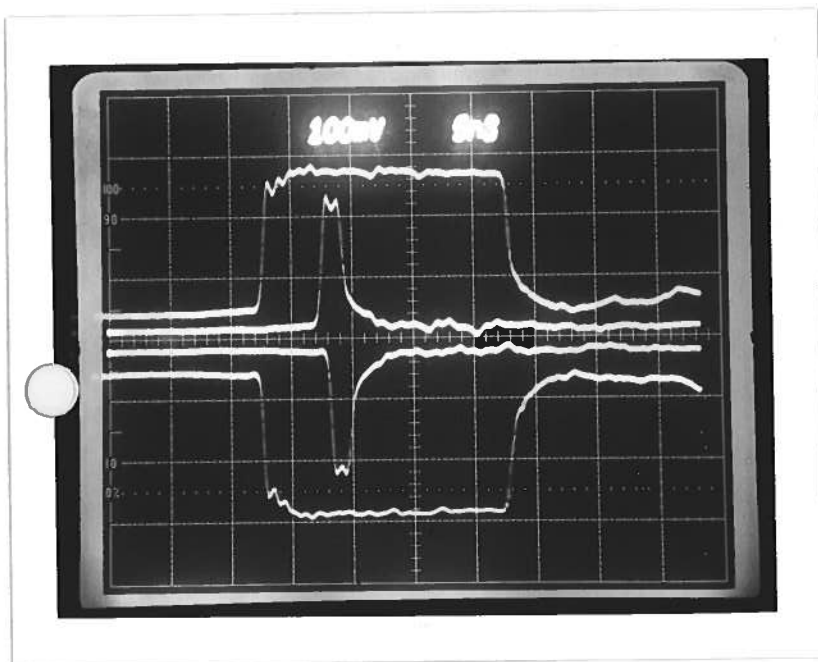


PULSE GENERATOR  
PERFORMANCE CHECK

Model: AVO-2L-B-PN

S.N.: 9905

Date: Aug 31, 2001



- a) Output signal amplitude:  
0 to  $\pm 25V$ , into  $12.5\Omega$
- b) Pulse width: 2 - 20 ns
- c) Rise time:  $\leq 0.5 ns$
- d) Fall time:  $\leq 0.5 ns$
- e) PRF: 1 Hz - 20 kHz
- f) Jitter, stability: OK
- g) Prime power: 120/240V  
50-60Hz

11V/div, 5ns/div,  $R_L = 12.5\Omega$

- 1) +25V, 20ns PW
- 2) +25V, 2ns PW
- 3) -25V, 2ns PW
- 4) -25V, 20ns PW

Measured with AVX-BP-1  
high impedance scope probe.



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

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**"-B" Functional Test & Calibration Certificate**

Date of test:	August 31, 2001				Tester:	MJC
Programmed model name:	AVO-2L-B-PN					
Programmed serial number:	9905					
Firmware revision:	2.27					
Internal trigger checked at:	2 Hz	20 Hz	200 Hz	2 kHz	20 kHz	
Actual measured output <sup>1</sup> :	2.01 Hz	20.11 Hz	200.8 Hz	2.01 kHz	19.95 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:	2 ns	5 ns	10 ns	20 ns	10 kHz, +20V, mainframe out	
Actual measured output <sup>2</sup> :	2.1 ns	5.0 ns	10.3 ns	19.9 ns		
PW <sub>in</sub> = PW <sub>out</sub> 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		10 kHz, +20V, mainframe out	
Actual measured output <sup>1</sup> :	99.0 ns	199.6 ns	505 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:	-5V	+10V	-20V	+25V	10 kHz, +25V, to 12.5 Ohms	
Actual measured output <sup>2</sup> :	-4.8V	+10.0V	-19.8V	+25.0V		
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:	N/A		
DC fuses:	Positive:	1A	Negative:	N/A		
AC Current at 115 VAC:	Quiescent:	0.39A	Max. Load:	0.40A		
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.