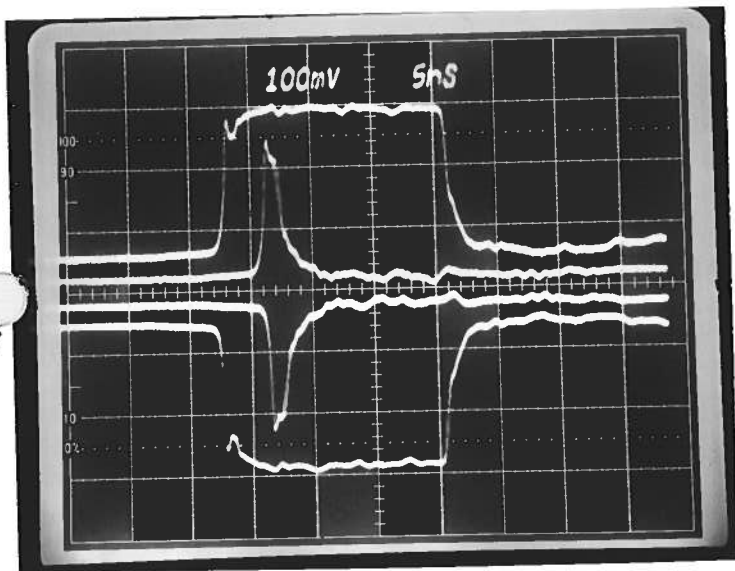


PULSE GENERATOR  
PERFORMANCE CHECK

Model: AVO-2L-B-PN

S.N.: 10146

Date: Feb. 5, 2002



- 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:	February 5, 2002				Tester:	MJC	
Programmed model name:	AVO-2L-B-PN						
Programmed serial number:	10146						
Firmware revision:	2.33						
Temp, RH:	23.1°C, 20.8%						
Internal trigger checked at:	2 Hz	20 Hz	200 Hz	2 kHz	20 kHz		
Actual measured output <sup>1</sup> :	1.99 Hz	19.84 Hz	198.4 Hz	1.99 kHz	20.1 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	20 kHz, +25V, mainframe out		
Actual measured output <sup>2</sup> :	2.0 ns	5.0 ns	10 ns	20 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	20 kHz, +25V, mainframe out			
Actual measured output <sup>1</sup> :	98 ns	199 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:	-5V	+10V	-15V	+25V	20 kHz, 20 ns, to 12.5 Ohms		
Actual measured output <sup>2</sup> :	-4.8V	+9.8V	-14.2V	+25V			
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						
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:	0.25A	Negative:	N/A			
AC Current at 115 VAC:	Quiescent:	0.40A	Max. Load:	0.41A			
AC fuse:	1A						
120/240V operation:	OK						
Photographed:	yes						

<sup>1</sup> Checked with: Fluke PM6681 Counter (S/N 9446 066 81016),  
referenced to Datum ExacTime 9390-6000 (S/N 4461) GPS Frequency Reference

<sup>2</sup> Checked with: Tektronix TDS3052 digital oscilloscope (S/N B014783) for PW ≥ 5 ns,  
Tektronix 7704A/7S11/7T11/S4 sampling oscilloscope system (Cal. Label 112506) for PW < 5 ns.