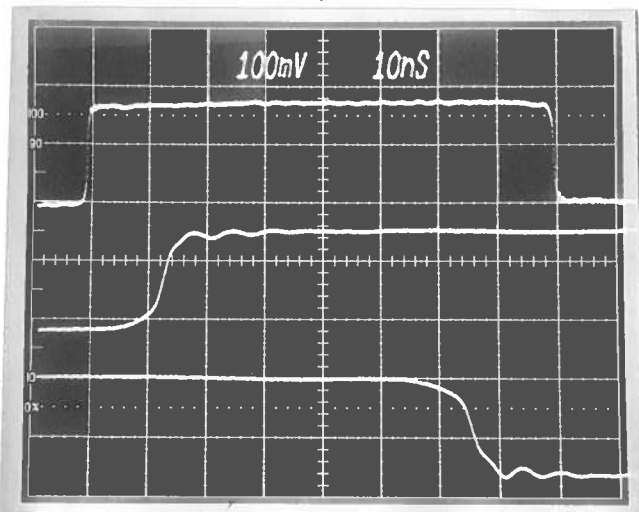


PULSE GENERATOR  
PERFORMANCE CHECK

Model: *AVO-96-B-P*

S.N.: *10668*

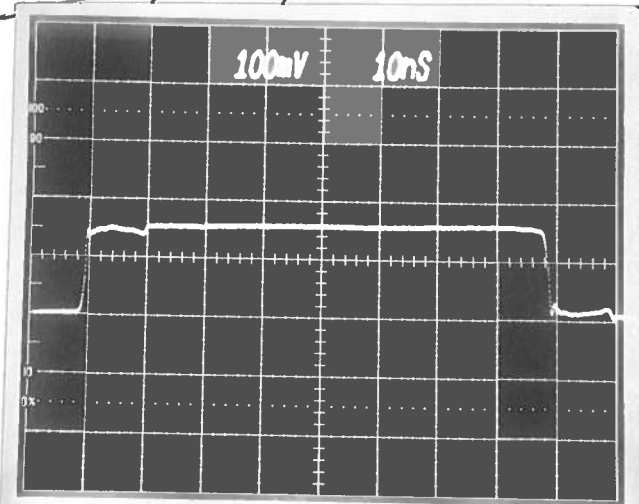
Date: *NOV 13 2003*



- a) Output signal amplitude: *0 TO +1 AMP*
- b) Pulse width: *(0.70+50V TO 50V) 20 TO 200 NS*
- c) Rise time: *6.25 NS*
- d) Fall time: *50.5 NS*
- e) PRF: *0 TO 50 KHz.*
- f) Jitter, stability: *OK*
- g) Prime power: *120 / 240 VOLT*  
*50 TO 60 Hz*

*[Signature]*

*50 dB ATTN - 32 VOLTS/DIV  
MAINFEEDING OUT TO 50Ω  
TOP 10 NS/DIV  
MID 1 NS/DIV (RISE TIME)  
BOT 1 NS/DIV (FALL TIME)*



*(AS) 19506 BUT THE AX-51 ATTACHED  
MAIN OUT TO 30dB. IN 49A DIODE SIMULATED LOAD.*



# 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](mailto:info@avtechpulse.com)  
<http://www.avtechpulse.com/>

BOX 5120, LCD MERIVALE  
OTTAWA, ONTARIO  
CANADA K2C 3H4  
TEL: (613) 226-5772  
FAX: (613) 226-2802

## "-B" Functional Test & Calibration Certificate

Date of test:	November 13, 2003					Tester:	MJC
Programmed model name:	AVO-9G-B-P						
Programmed serial number:	10668						
Firmware revision:	2.53						
Internal trigger checked at:	5 Hz	50 Hz	500 Hz	5 kHz	50 kHz		
Actual measured output <sup>1</sup> :	5.00 Hz	50.0 Hz	500 Hz	5.00 kHz	50.0 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:	20 ns	50 ns	100 ns	200 ns	10 kHz, +50V to 50Ω		
Actual measured output <sup>2</sup> :	19.2 ns	50.4 ns	101.6 ns	206 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	1 us	10 us	100 us	10 Hz, +50V to 50Ω		
Actual measured output <sup>1</sup> :	100.0 ns	0.999 us	9.995 us	100.1 us			
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	+25V	+50V	10 kHz, 200 ns to 50Ω		
Actual measured output <sup>2</sup> :	+5.0V	+10.0V	+25.3V	+50.6V			
Amplitude polarity:	+						
Zout calibration:	N/A						
Electronic amplitude control:	N/A						
External amplify mode:	N/A						
Bleeder resistors adequate:	N/A						
Burst mode:	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						
LCD pull-ups installed:	Yes						
PN trigger pull-downs installed:	N/A						
Sync pulse width checked:	200 ns nominal						
Circuit Boards:	PS:	93	Main:	108G			
Overload Trigger Resistance:	Trips at:	20k	Installed:	15k			
DC fuses:	Positive:	0.5A	Negative:	N/A			
AC Current:	Quiescent:	0.36A @ 115V	Max. Load:	0.39A @ 115V			
		0.17A @ 230V		0.19A @ 230V			
AC fuse:	1A						
1.5 kV RMS, 5 second Hypot Test:	OK						
25A RMS Ground Continuity Test:	OK						
Fan operational:	Yes						
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 (Cal. Label 112506) for PW < 5 ns.