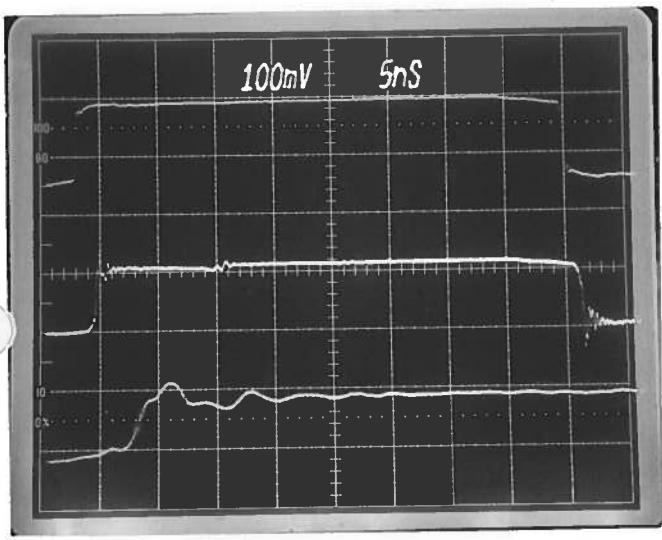


PULSE GENERATOR
PERFORMANCE CHECK

Model: *AVO-9B-BP*
S.N.: *9816*
Date: *APRIL 27 2001*



- a) Output signal amplitude:
0 TO +200 mA
- b) Pulse width:
5 NS TO 100 NS
- c) Rise time:
≤ 200 ps
- d) Fall time:
≤ 200 ps
- e) PRF: *0 TO 1.0 MHz.*
- f) Jitter, stability:
OK
- g) Prime power:

TOP MAINFRAME OUT TO
40dB (MAX AMP)
5 NS/DIV.

120/240V
50-60Hz

MID *PRX-51* INI OUT TO
20dB WITH MAINFRAME
AMPLIFYING AT MAX
5 NS/DIV

BOT AS MID BUT *500ps/DIV*
PRF = 100 KHz



AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS
SINCE 1975

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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:	April 27, 2001				Tester:	MJC
Programmed model name:	AVO-9B-B-P					
Programmed serial number:	9816					
Firmware revision:	2.24					
Internal trigger checked at:	1 Hz	100 Hz	1 kHz	10 kHz	1 MHz	
Actual measured output ¹ :	0.998 Hz	99.5 Hz	0.996 kHz	9.98 kHz	1.008 MHz	
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	10 ns	50 ns	100 ns	10 kHz, max amplitude	
Actual measured output ² :	5.0 ns	10.3 ns	50.1 ns	100.3 ns		
PWin = PWout mode checked:	N/A			DC mode checked:	N/A	
Duty Cycle Limit:	10%					
Delay nulled:	yes					
Delay checked at:	100 ns	200 ns	500 ns	10 kHz, max amplitude		
Actual measured output ¹ :	100.6 ns	200.9 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:	+1V	+2V	+5V	+12V	10 kHz, 100 ns	
Actual measured output ² :	+1.0V	+1.9V	+5.0V	+12V		
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			Amplitude-dependent offset nulled:		
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:	108B		
Overload Trigger Resistance:	Trips at:	N/A		Installed:	N/A	
DC fuses:	Positive:	N/A		Negative:	N/A	
AC Current at 115 VAC:	Quiescent:	0.42 A		Max. Load:	0.46 A	
AC fuse:	1A					
Photographed:	yes					

Checked with: Fluke PM6681 Counter, referenced to Datum ExacTime 9390-6000 GPS Frequency Reference

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