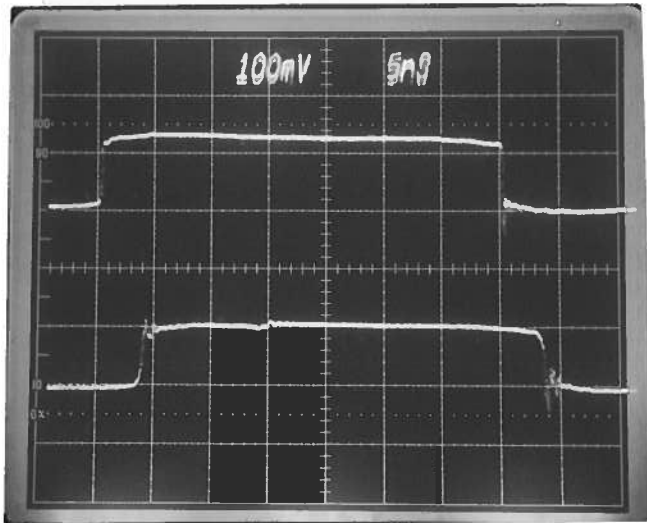


PULSE GENERATOR  
PERFORMANCE CHECK

Model: MO-9B-P-B

S.N.: 9817

Date: JUN 26 2001



a) Output signal amplitude:

0 to -200 mA

b) Pulse width:

5 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:

120/240 V

50-60 Hz

TOP MAINFRAME OUT TO  
40 dB. NO AM-SI.  
10 V/DIV, 5 NS/DIV

BOT AS TOP BUT AM-SI  
ATTACHED. ME OUT  
TO 20 dB. 1M457A  
USED AS SIMULATED LOAD.



# AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS  
SINCE 1975

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## "-B" Functional Test & Calibration Certificate

Date of test:	June 26, 2001				Tester:	MJC
Programmed model name:	AVO-9B-B-P					
Programmed serial number:	9817					
Firmware revision:	2.24					
Internal trigger checked at:	1 Hz	100 Hz	1 kHz	10 kHz	1 MHz	
Actual measured output <sup>1</sup> :	1.007 Hz	100.3 Hz	0.995 kHz	10.03 kHz	0.996 MHz	
External trigger checked:	OK			Gate checked:	OK	
Manual trigger checked:	OK					
Pulse compression checked:	yes		Low Amplitude PW Distortion Nulled:			N/A
Pulse width checked at:	10 ns	20 ns	50 ns	100 ns	50 kHz, 10V to 50 Ohms	
Actual measured output <sup>2</sup> :	9.8 ns	19.3 ns	49.8 ns	99.8 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	50 kHz, 10V to 50 Ohms		
Actual measured output <sup>1</sup> :	100.4 ns	199.7 ns	503 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	+3V	+6V	+12V	50 kHz, 100 ns to 50 Ohms	
Actual measured output <sup>2</sup> :	+1.04V	+3.00V	+5.94V	+12.0V		
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:	N/A	Negative:	N/A		
AC Current at 115 VAC:	Quiescent:	0.43A	Max. Load:	0.46A		
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.