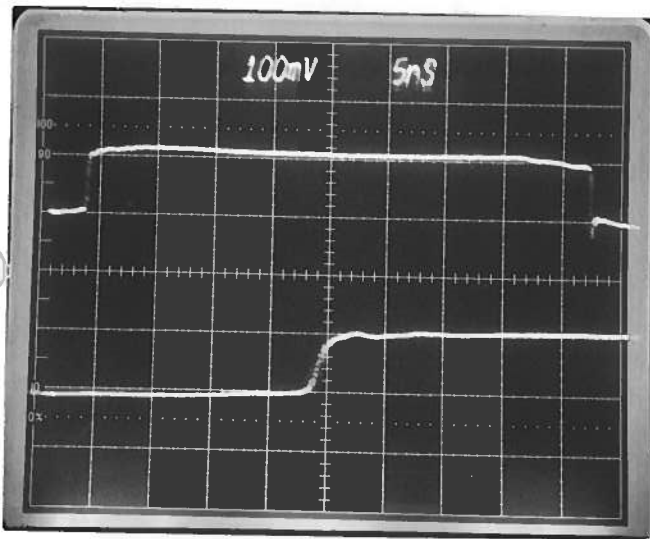


PULSE GENERATOR  
PERFORMANCE CHECK

Model: AVMP-2-B-P-OT

S.N.: 9584

Date: NOV 23 2000



40 db. ATTN  
10 VOLTS / DIV.  
TOP 5 NS / DIV  
BOT 500 ps / DIV  
(RISE TIME).

- a) Output signal amplitude:  
0 TO +10 VOLTS
- b) Pulse width: (TO 50ns)  
5 NS TO 100 NS
- c) Rise time:  
 $\leq 100$  ps
- d) Fall time:  
 $\leq 135$  ps
- e) PRF: 0 TO 1.0 MHz
- f) Jitter, stability:  
OK
- g) Prime power:  
120 / 240V  
5.0 - 60 MHz.
- h) DC OFFSET:  
0 TO  $\pm 5$  VOLTS

PRF  $\approx 100$  KHz



# AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS  
SINCE 1975

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## "-B" Functional Test & Calibration Certificate

Date of test:	November 23, 2000				Tester:	MJC
Programmed model name:	AVMP-2-B-OT-P					
Programmed serial number:	9584					
Firmware revision:	2.22					
Internal trigger checked at:	1 Hz	100 Hz	1 k Hz	10 kHz	1 MHz	
Actual measured output <sup>1</sup> :	0.998 Hz	99.92 Hz	0.998 kHz	9.97 kHz	1.000 MHz	
External trigger checked:	yes			Gate checked:	yes	
Trigger load resistor present:	yes					
Manual trigger checked:	yes					
Pulse compression checked:	yes		Low Amplitude PW Distortion Nulled:		N/A	
Pulse width checked at:	5 ns	20 ns	50 ns	100 ns	10 kHz, +10V to 50 Ohms	
Actual measured output <sup>2</sup> :	5.0 ns	20 ns	50 ns	101 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, +10V to 50 Ohms	
Actual measured output <sup>1</sup> :	101 ns	203 ns	506 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:	+1 V	+2.5 V	+5 V	+10 V	10 kHz, 100 ns to 50 Ohms	
Actual measured output <sup>2</sup> :	+1.0 V	+2.5 V	+5.0 V	+10.0 V		
Amplitude polarity:	+					
Zout calibration:	N/A					
Electronic amplitude control:	N/A					
External amplify mode:	N/A					
Ultraviolet flux removed:	N/A					
Monitor V/I Ratio:	N/A			Monitor offset nulled:		
LCD Monitor calibrated:	N/A			Monitor offset nulled:		
Mon. Single Pulse/Min PW OK:	N/A			SHA Cap:		
Offset checked at:	-5V	0V	+5V		into 50 Ohms	
Actual measured output <sup>2</sup> :	-4.99V	0.00 V	-5.00V			
Offset nulled (output on):	yes		Amplitude-dependent offset nulled:		N/A	
Offset nulled (output off):	yes					
RS-232 checked:	yes					
Sync pulse width checked:	200 ns					
Circuit Boards:	PS:	93	Main:	108		
Overload Trigger Resistance:	Trips at:	N/A	Installed:	N/A		
DC fuses:	Positive:	N/A	Negative:	N/A		
AC Current at 115 VAC:	Quiescent:	0.40A	Max. Load:	0.44 A		
AC fuse:	1 A					
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 TDS360 digital oscilloscope for PW ≥ 5 ns,  
Tektronix 7704A/7S11/7T11/S4 sampling oscilloscope system for PW < 5 ns.