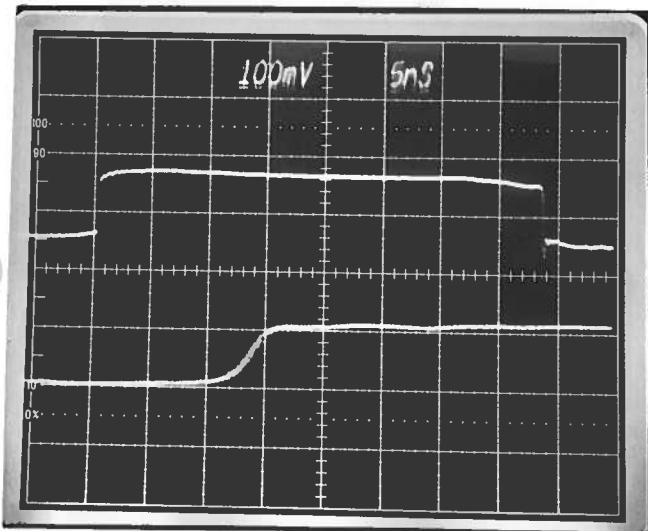


PULSE GENERATOR
PERFORMANCE CHECK

Model: *AVAMP-2-P-B-OT-M*

S.N.: *10016*

Date: *DEC 4 2001*



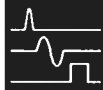
- a) Output signal amplitude:
0 TO +10 VOLTS
- b) Pulse width:
CTO 50ns
- c) Rise time:
≤ 100 ns
- d) Fall time:
≤ 135 ns
- e) PRF:
0 TO 1 MHz
- f) Jitter, stability:
OK
- g) Prime power:
120/240 V

40 db ATTN.; 10 VOLTS/DIV

TIP 5 ns/DIV, +5 V DC OFFSET.

*BOI 100 ps/DIV, 0 V DC OFFSET
(RISE TIME)*

50 60 MHz

AVTECH**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
 http://www.avtechpulse.com

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:	December 4, 2001				Tester:	MJC
Programmed model name:	AVMP-2-B-P-M-OT					
Programmed serial number:	10016					
Firmware revision:	2.32					
Internal trigger checked at:	1 Hz	100 Hz	1 kHz	10 kHz	1 MHz	
Actual measured output ¹ :	1.008 Hz	100.8 Hz	1.006 kHz	10.05 kHz	0.991 MHz	
External trigger checked:	yes			Gate checked:	yes	
Manual trigger checked:	yes					
Pulse compression checked:	yes		Low Amplitude PW Distortion Nullled:		N/A	
Pulse width checked at:	5 ns	20 ns	50 ns	100 ns	10 kHz, +10V	
Actual measured output ² :	5.0 ns	20.2 ns	50.4 ns	100.3 ns	to 50 Ohms	
PWin = PWout mode checked:	N/A			DC mode checked:	N/A	
Duty Cycle Limit:	10%					
Delay nullled:	yes					
Delay checked at:	100 ns	200 ns	500 ns		10 kHz, +10V	
Actual measured output ¹ :	99.3 ns	200.1 ns	504 ns		to 50 Ohms	
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	+10V	10 kHz, 100ns	
Actual measured output ² :	+1.0V	+2.0V	+5.0V	+10.1V	to 50 Ohms	
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 nullled:		
LCD Monitor calibrated:	N/A			Monitor offset nullled:		
Offset checked at:	-5V	0V	+5V		into 50 Ohms	
Actual measured output ² :	-4.99V	0.00V	+5.02V			
Offset nullled (output on):	yes		Amplitude-dependent offset nullled:		N/A	
Offset nullled (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:	0.42A	Max. Load:	0.48A		
AC fuse:	1A					
Photographed:	yes					

¹ 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.