



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/

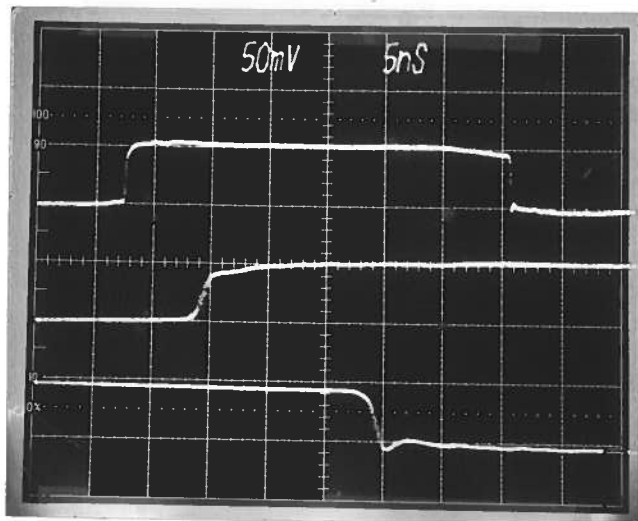
BOX 5120, LCD MERIVALE
OTTAWA, ONTARIO
CANADA K2C 3H4
TEL: (613) 226-5772
FAX: (613) 226-2802

PERFORMANCE CHECKSHEET

Model: *AVAMP-1A-B-P-A*

S.N.: *11407*

Date: *JAN 09 2006*



40 dB ATTN.: 5 V/DIV

a) Output Signal Amplitude:
0 to +5 V (to 50n)

b) Pulse Width(FWHM):
5 to 100 ns

c) Rise Time (20%-80%):
≤ 100 ps

d) Fall Time (80%-20%):
≤ 135 ps

e) PRF: *0 to 1 MHz*

f) Jitter, Stability: *OK*

g) Prime Power: *100-240 V*
50-60 Hz.

① *5 ns/DIV*

② *500 ps/DIV (RISE TIME)*

③ *500 ps/DIV (FALL TIME)*

PRF = 100 kHz.



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"-B" Functional Test & Calibration Certificate

Date of test:	January 9, 2006				Tester:	MJC	
Programmed model name:	AVMP-1A-B-M-P						
Programmed serial number:	11407	MAC address:	00:90:c2:c9:44:a0				
Firmware revision:	3.37						
Internal trigger checked at:	1 Hz	1 kHz	10 kHz	100 kHz	1 MHz		
Actual measured output ¹ :	0.998 Hz	0.998 kHz	9.99 kHz	100.1 kHz	1.006 MHz		
External trigger checked:	Yes			Gate checked:	Yes		
Manual trigger checked:	Yes						
Pulse compression checked:	N/A		Low Amplitude PW Distortion Nulled:	N/A			
Pulse width checked at:	5 ns	15 ns	30 ns	100 ns	100 kHz, +5V to		
Actual measured output ² :	5.0 ns	15.0 ns	30.0 ns	100.8 ns	50 Ohms		
PW _{in} = PW _{out} mode checked:	N/A		DC mode checked:	N/A			
Duty Cycle Limit:	10%						
Delay nulled:	Yes						
Delay checked at:	100 ns	1 us	10 us	100 us	100 Hz, 5 ns,		
Actual measured output ¹ :	99.7 ns	1.004 us	10.05 us	100.5 us	+5V to 50Ω		
Double pulse checked:	N/A						
Invert mode checked:	N/A						
ECL/TTL modes checked:	N/A						
Zout switch checked:	N/A						
Amplitude checked at:	+0.5V	+1V	+2V	+5V	100 kHz, 100		
Actual measured output ² :	+0.52V	+1.01V	+2.01V	+5.0V	ns to 50 Ohms		
Amplitude polarity:	+						
Zout calibration:	N/A						
Electronic amplitude control (+ and -):	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 ² :	N/A						
Offset nulled (output on):	N/A			Amplitude-dependent offset nulled:			
Offset nulled (output off):	N/A						
RS-232 checked:	Yes		Telnet control checked:	N/A			
LCD pull-ups installed:	N/A						
PCB 108H oscillator buffer resistor:	N/A		PW, delay bias (1k/820/108H or 1k/604/108M):	N/A			
PCB 108N TP14/C26 resistor:	N/A						
PN trigger pull-downs installed:	N/A						
Sync pulse width checked:	100 ns nominal						
Circuit Boards:	PS:	158K	Main:	108Q			
Overload Trigger Resistance:	Trips at:	N/A	Installed:	N/A			
DC fuses:	Main:	1A	Overload:	N/A (1A spare)			
AC Current:	Quiescent:	0.22A @ 115V	Max. Load:	0.25A @ 115V			
		0.17A @ 230V		0.18A @ 230V			
AC fuse:	0.5A						
1.5 kV _{RMS} , 5s, switch on, Hypot Test:	OK						
25A RMS Ground Continuity Test:	OK						
Fan operational:	Yes						
Top cover vent required:	No						
Photographed:	Yes						

¹ Checked with: Fluke PM6681 Counter (S/N 9446 066 81016), referenced to Datum ExacTime 9390-6000 (S/N 4461) GPS Frequency Reference

² 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.