



AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS
SINCE 1975

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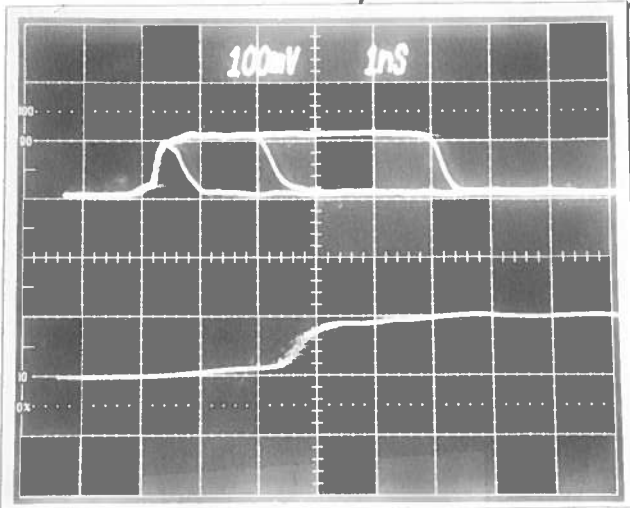
BOX 5120, LCD MERIVALE
OTTAWA, ONTARIO
CANADA K2C 3H4
TEL: (613) 226-5772
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PERFORMANCE CHECKSHEET

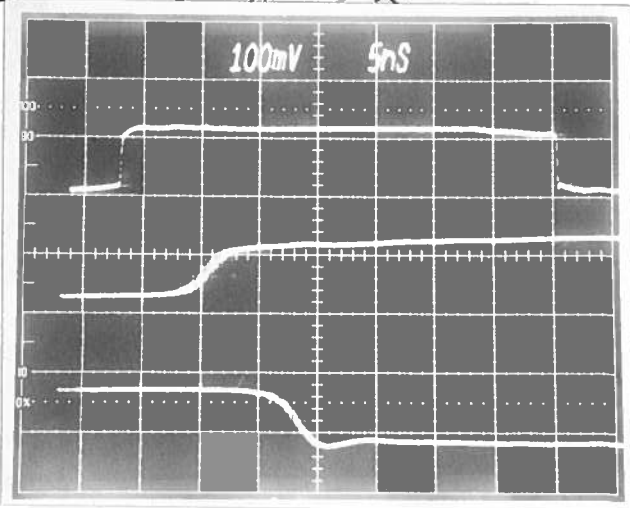
Model: *AVPP-1-B-P*

S.N.: *11122*

Date: *FEB 23, 2005*



*0.4 TO 5.0 NS RANGE, 10V/DIV
40P 1NS/DIV, PW_{MIN}, PW_{MID}, PW_{MAX}
BOT 200ps/DIV, (RISE TIME)*



5-100 NS RANGE...

a) Output Signal Amplitude:

0 TO +10V (TO 50ns)

b) Pulse Width:

0.4 TO 100 NS

c) Rise Time (20%-80%):

≤ 200 ps (PW < 5ns)

d) Fall Time (80%-20%):

≤ 100 ps (PW > 5ns)

≤ 200 ps (PW < 5ns)

≤ 100 ps (PW > 5ns)

e) PRF:

0 TO 1.0 MHz

f) Jitter, Stability:

OK

g) Prime Power:

100 - 240 V

50 - 60 Hz

*200 ps/DIV
(RISE TIME)*

*200 ps/DIV
(FALL TIME)*



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"-B" Functional Test & Calibration Certificate

Date of test:	February 22, 2005				Tester:	MJC
Programmed model name:	AVPP-1-B-P					
Programmed serial number:	11122	MAC address:	00:90:c2:c4:70:75			
Firmware revision:	3.18					
Internal trigger checked at:	1 Hz	1 kHz	10 kHz	100 kHz	1 MHz	
Actual measured output ¹ :	0.995 Hz	0.991 kHz	9.93 kHz	100.9 kHz	1.009 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:	0.4 ns	4 ns	20 ns	100 ns	10 kHz, +10V to	
Actual measured output ² :	0.40 ns	3.9 ns	20 ns	100 ns	50 Ohms	
PW _{in} = PW _{out} mode checked:	N/A		DC mode checked:	N/A		
Duty Cycle Limit:	N/A					
Delay nulled:	Yes					
Delay checked at:	100 ns	1 us	10 us	100 us	100 Hz, +10V,	
Actual measured output ¹ :	103 ns	0.992 us	9.90 us	99.1 us	100 ns 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:	4 ns, +3V	4 ns, +10V	100 ns, +3V	100 ns, +10V	10 kHz to 50	
Actual measured output ² :	+3.1V	+10.1V	+2.9V	+9.9V	Ohms	
Amplitude polarity:	+					
Zout calibration:	N/A					
Electronic amplitude control:	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):	1k/604/108M		
PRF/PW/Delay leakage current:	OK					
PN trigger pull-downs installed:	N/A					
Sync pulse width checked:	100 ns nominal					
Circuit Boards:	PS:	158E	Main:	108M4		
Overload Trigger Resistance:	Trips at:	N/A	Installed:	22k		
DC fuses:	Main:	1.6A	Overload:	0.5A		
AC Current:	Quiescent:	0.30A @ 115V	Max. Load:	0.33A @ 115V		
		0.19A @ 230V		0.20A @ 230V		
AC fuse:	0.5A					
1.5 kV _{RMS} , 5s, switch on, Hypot Test:	OK					
25A RMS Ground Continuity Test:	OK					
Fan operational:	Yes					
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.