



AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS
SINCE 1975

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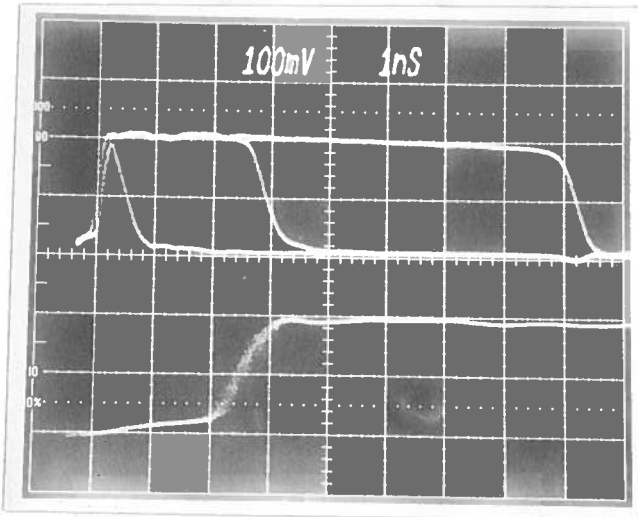
BOX 5120, LCD MERIVALE
OTTAWA, ONTARIO
CANADA K2C 3H4
TEL: (613) 226-5772
FAX: (613) 226-2802

PERFORMANCE CHECKSHEET

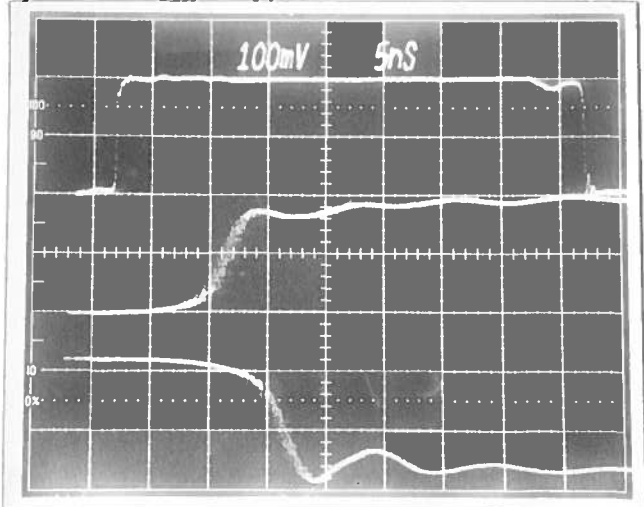
Model: *AVP-2-B-P*

S.N.: *11116*

Date: *MAR 9 2005*



*0.4 TO 8 NS RANGE, 10V/DIV
TOT: 1 NS/DIV, PULSE, PULSE, PULSE
BOT: 200PS/DIV (RISE TIME)*



8-100 NS RANGE

a) Output Signal Amplitude:

0 TO +20V (TO 50V)

b) Pulse Width(FWHM):

0.4 TO 100 NS

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

≤ 200 ps

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

≤ 300 ps

e) PRF:

0 TO 100 KHz

f) Jitter, Stability:

≤ 5 NS/DIV OK

g) Prime Power:

100-240V

50-60 Hz.

*≤ 200 ps/DIV
RISETIME*

≤ 200 ps/DIV

FALL TIME

PRF = 100 KHz

(40dB ATTEN)



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"-B" Functional Test & Calibration Certificate

Date of test:	March 8, 2005					Tester:	MJC				
Programmed model name:	AVPP-2-B-P										
Programmed serial number:	11116					MAC address:	00:90:c2:c6:b8:c6				
Firmware revision:	3.19										
Internal trigger checked at:	10 Hz	100 Hz	1 kHz	10 kHz	100 kHz						
Actual measured output ¹ :	10.08 Hz	100.5 Hz	1.006 kHz	10.02 kHz	99.4 kHz						
External trigger checked:	Yes					Gate checked:	Yes				
Manual trigger checked:	Yes										
Pulse compression checked:	Yes					Low Amplitude PW Distortion Nulled:	N/A				
Pulse width checked at:	1 ns	5 ns	20 ns	100 ns	10 kHz, +20V to						
Actual measured output ² :	0.95 ns	5.0 ns	19.9 ns	99.5 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, 100 ns,						
Actual measured output ¹ :	101 ns	0.996 us	9.96 us	99.7 us	+20V 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, +5V	4 ns, +20V	40 ns, +5V	40 ns, +20V	10 kHz, to 50						
Actual measured output ² :	+4.9V	+20.0V	+5.1V	+19.9V	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: 20k								
DC fuses:	Main: 1.6A		Overload: 0.5A								
AC Current:	Quiescent: 0.29A @ 115V 0.19A @ 230V		Max. Load: 0.33A @ 115V 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.