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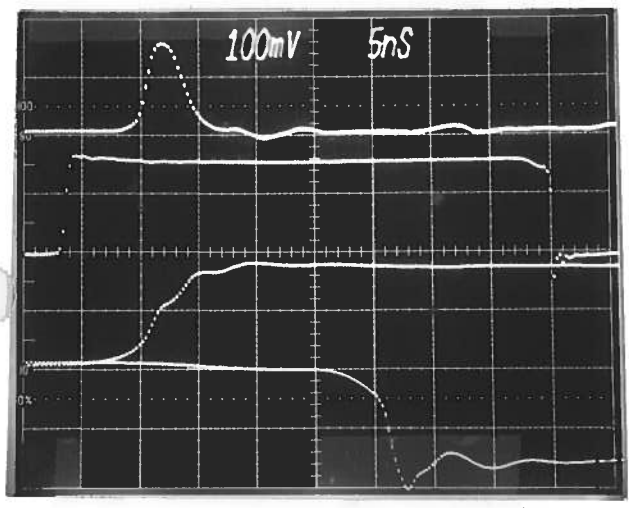
BOX 5120, LCD MERIVALE
 OTTAWA, ONTARIO
 CANADA K2C 3H4
 TEL: (613) 226-5772
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PERFORMANCE CHECKSHEET

Model: *AVL-2A-W-B-P*

S.N.: *11391*

Date: *JAN 25 2006*



60dB ATTEN.: 100V/DIV

a) Output Signal Amplitude:
0 TO +160V (TO 50ns)

b) Pulse Width(FWHM):
3 TO 400ns

c) Rise Time (20%-80%):
≤ 2ns

d) Fall Time (80%-20%):
≤ 4ns

e) PRF:
0 TO 5 KHz

f) Jitter, Stability:
OK

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

- ① PW NEAR MIN, 5 NS/DIV
- ② PW MID RANGE, 20 NS/DIV
- ③ RISE TIME FOR ②, 2 NS/DIV
- ④ FALL TIME FOR ②, 2 NS/DIV

PRF = 5 KHz.



AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS
SINCE 1975

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"-B" Functional Test & Calibration Certificate

Date of test:	January 25, 2006				Tester:	MJC
Programmed model name:	AVL-2A-W-B-P					
Programmed serial number:	11391	MAC address:	00:90:c2:c9:44:9a			
Firmware revision:	3.37					
Internal trigger checked at:	5 Hz	50 Hz	500 Hz	5000 Hz		
Actual measured output ¹ :	4.99 Hz	49.8 Hz	498 Hz	4989 Hz		
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:	4 ns	40 ns	100 ns	400 ns	5 kHz, +160V to	
Actual measured output ² :	3.9 ns	38.4 ns	99.0 ns	399 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	10 Hz, +160V to	
Actual measured output ¹ :	99.5 ns	0.995 us	9.95 us	99.5 us	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:	+5V	+20V	+80V	+160V	5 kHz, 400 ns	
Actual measured output ² :	+4.96V	+20.2V	+80.8V	+160V	to 50 Ohms	
Amplitude polarity:	+					
Zout calibration:	N/A					
Electronic amplitude control (+ and -):	N/A					
External amplify mode:	N/A					
Bleeder resistors adequate:	Yes					
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:		
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:	10k		
DC fuses:	Main:	1.6A	Overload:	0.8A		
AC Current:	Quiescent:	0.38A @ 115V	Max. Load:	0.41A @ 115V		
		0.23A @ 230V		0.24A @ 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.