



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/

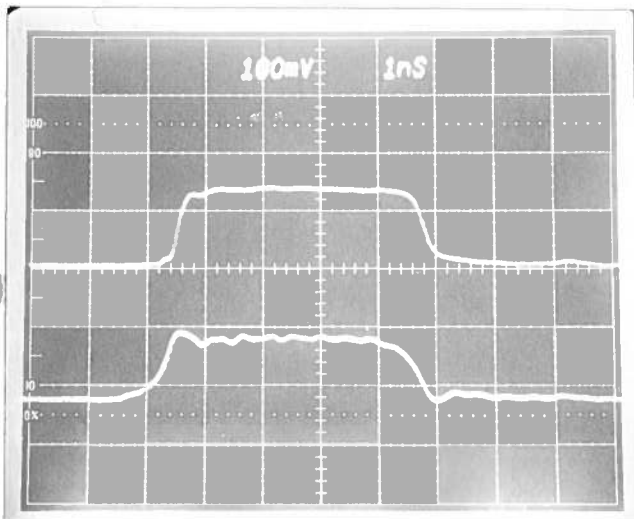
BOX 5120, LCD MERIVALE
OTTAWA, ONTARIO
CANADA K2C 3H4
TEL: (613) 226-5772
FAX: (613) 226-2802

PERFORMANCE CHECKSHEET

Model: *PVO-9A-B-P-P2*

S.N.: *11283*

Date: *AUG 31 2005*



a) Output Signal Amplitude:

*0 TO +200 mA
(0 TO +13V TO 50Ω)*

b) Pulse Width(FWHM):

0.4 TO 4.0 NS

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

≤ 200 ps

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

≤ 200 ps

e) PRF:

0 TO 1.0 MHz

f) Jitter, Stability:

OK

① MAINFRAME OUT TO
40 dB (NO AX-SI)

② AS ① BUT AX-SI INSTALLED
*WITH IN 459A TEST DIODE
M/I OUT TO 20 dB.
+50 mA DC BIAS.*

g) Prime Power:

*100 - 240 V
50 - 60 Hz.*

PRF = 100 KHz.

AVTECH**AVTECH ELECTROSYSTEMS LTD.**
 NANOSECOND WAVEFORM ELECTRONICS
 SINCE 1975

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"-B" Functional Test & Calibration Certificate

Date of test:		August 31, 2005			Tester: MJC	
Programmed model name:		AVO-9A-B-P2-P				
Programmed serial number:		11283		MAC address: 00:90:c2:c6:c8:34		
Firmware revision:		3.31				
Internal trigger checked at:		100 Hz	1 kHz	10 kHz	100 kHz	1 MHz
Actual measured output ¹ :		100.1 Hz	1.002 kHz	10.01 kHz	100.3 kHz	1.005 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:		1 ns	2.5 ns	4 ns	100 kHz, +10V to 50 Ohms	
Actual measured output ² :		1.03 ns	2.55 ns	4.0 ns		
PWin = PWout 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, 4 ns, +13V to 50Ω
Actual measured output ¹ :		101 ns	0.995 us	9.95 us	99.5 us	
Double pulse checked:		N/A				
Invert mode checked:		N/A				
ECL/TTL modes checked:		N/A				
Zout switch checked:		N/A				
Amplitude checked at:		+2V	+5V	+10V	+13V	100 Hz, 4 ns to 50Ω
Actual measured output ² :		+2.0V	+5.0V	+10.0V	+12.9V	
Amplitude polarity:		+				
Zout calibration:		N/A				
Electronic amplitude control:		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: 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:		OK				
PN trigger pull-downs installed:		N/A				
Sync pulse width checked:		Yes				
Circuit Boards:		PS: 158J	Main: 108N			
Overload Trigger Resistance:		Trips at: N/A	Installed: 20k			
DC fuses:		Main: 1A	Overload: 0.25A			
AC Current:		Quiescent: 0.25A @ 115V	Max. Load: 0.29A @ 115V			
		0.17A @ 230V	0.19A @ 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 ExactTime 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.