



P.O. BOX 265
OGDENSBURG, NY
U.S.A. 13669-0265
TEL: (315) 472-5270
FAX: (613) 226-2802

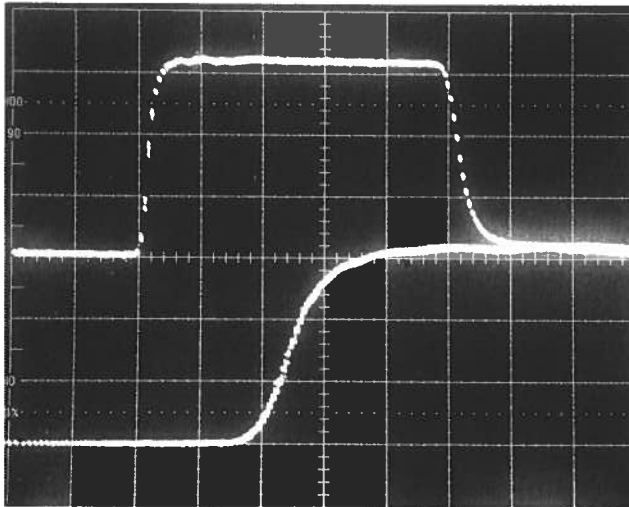
TEL: 1-800-265-6681
FAX: 1-800-561-1970

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: AVL-2-B-PN-EA-M
S.N.: 11035
Date: October 21, 2004



Output at 2 kHz, 5 ns pulse width, +320V amplitude,
into a 50 Ohm load. 100 V/div.

Top waveform: 10 ns/div

Bottom waveform: 2 ns/div (shows rising edge)

a) Output Signal Amplitude: 0 to $\pm 320V$

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

c) Rise Time (20%-80%): < 2 ns

d) Fall Time (80%-20%): < 4 ns

e) PRF: 1 Hz - 5 kHz

f) Jitter, Stability: OK

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



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"-B" Functional Test & Calibration Certificate

Date of test:	October 21, 2004				Tester:	MJC
Programmed model name:	AVL-2-B-PN-EA-M					
Programmed serial number:	11035	MAC address:	N/A			
Firmware revision:	2.59					
Internal trigger checked at:	5 Hz	50 Hz	500 Hz	5000 Hz		
Actual measured output ¹ :	4.98 Hz	49.8 Hz	499 Hz	5006 Hz		
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:	5 ns	20 ns	50 ns	100 ns	2 kHz, +320V to	
Actual measured output ² :	5.1 ns	19.5 ns	50.5 ns	100.2 ns	50Ω, FWHM	
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	2 kHz, +320V to	
Actual measured output ¹ :	105 ns	1.006 us	10.02 us	100.0 us	50Ω, FWHM	
Double pulse checked:	N/A					
Invert mode checked:	N/A					
ECL/TTL modes checked:	N/A					
Zout switch checked:	N/A					
Amplitude checked at:	-50V	+100V	-200V	+320V	2 kHz, 50 ns to	
Actual measured output ² :	-51V	+99V	-198V	+320V	50Ω, FWHM	
Amplitude polarity:	+/-					
Zout calibration:	N/A					
Electronic amplitude control:	OK					
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					
LCD pull-ups installed:	N/A					
PCB 108H oscillator buffer resistor:	Yes					
PN trigger pull-downs installed:	N/A					
Sync pulse width checked:	100 ns nominal					
Circuit Boards:	PS:	158F	Main:	108H		
Overload Trigger Resistance:	Trips at:	20k	Installed:	18k		
DC fuses:	Main:	1A	Overload:	0.5A		
AC Current:	Quiescent:	0.22A @ 115V 0.16A @ 230V	Max. Load:	0.29A @ 115V 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					
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.