



AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS
SINCE 1975

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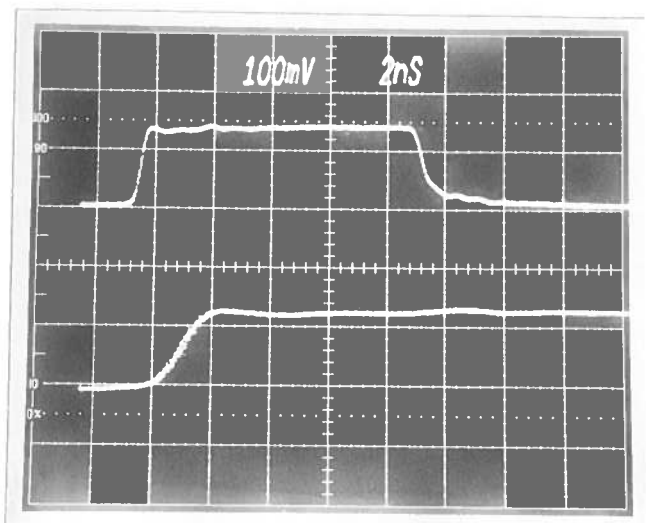
BOX 5120, LCD MERIVALE
OTTAWA, ONTARIO
CANADA K2C 3H4
TEL: (613) 226-5772
FAX: (613) 226-2802

PERFORMANCE CHECKSHEET

Model: *AVI-V-2L-B-P*

S.N.: *11096*

Date: *JAN 25 2005*



50dB ATTEN - 32V/DIV

TRF: 2NS/DIV

*BUT: 500ps/DIV
(RISE TIME)*

50 KHz PRF

a) Output Signal Amplitude:

0 TO +40V

b) Pulse Width(FWHM):

1 TO 10ns

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

≤ 500ps

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

≤ 500ps

e) PRF:

0 TO 100 KHz

f) Jitter, Stability:

OK

g) Prime Power:

*100-240V
50-60 Hz*



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"-B" Functional Test & Calibration Certificate

Date of test:	January 25, 2005				Tester:	MJC
Programmed model name:	AVI-V-2L-B-P					
Programmed serial number:	11096	MAC address:	00:90:c2:c4:70:a3			
Firmware revision:	3.17					
Internal trigger checked at:	1 Hz	100 Hz	1 kHz	10 kHz	100 kHz	
Actual measured output ¹ :	0.999 Hz	99.6 Hz	0.994 kHz	9.96 kHz	100.1 kHz	
External trigger checked:	OK			Gate checked: OK		
Manual trigger checked:	OK					
Pulse compression checked:	N/A		Low Amplitude PW Distortion Nulled:		N/A	
Pulse width checked at:	1 ns	2 ns	5 ns	10 ns	100 kHz, +40V to 50 Ohms	
Actual measured output ² :	0.7 ns	2.2 ns	5.2 ns	9.9 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	5 Hz, +40V to 50 Ohms	
Actual measured output ¹ :	99.7 ns	0.997 us	9.97 us	99.6 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:	+5V	+10V	+20V	+40V	10 kHz, 10 ns to 50 Ohms	
Actual measured output ² :	+5.2V	+9.8V	+19.7V	+40.5V		
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:						
Actual measured output ² :	N/A					
Offset nulled (output on):	N/A			Amplitude-dependent offset nulled:		
Offset nulled (output off):	Yes					
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:	1A	Overload:	0.5A		
AC Current:	Quiescent:	0.26A @ 115V 0.18A @ 230V	Max. Load:	0.26A @ 115V 0.18A @ 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.