



AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS
SINCE 1975

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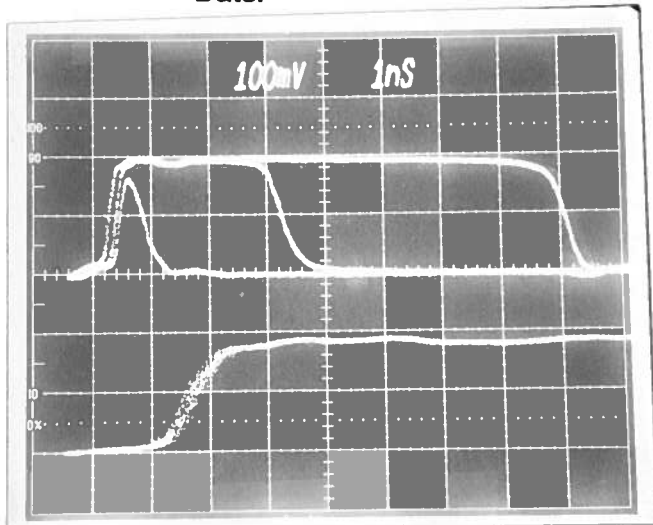
BOX 5120, LCD MERIVALE
OTTAWA, ONTARIO
CANADA K2C 3H4
TEL: (613) 226-5772
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PERFORMANCE CHECKSHEET

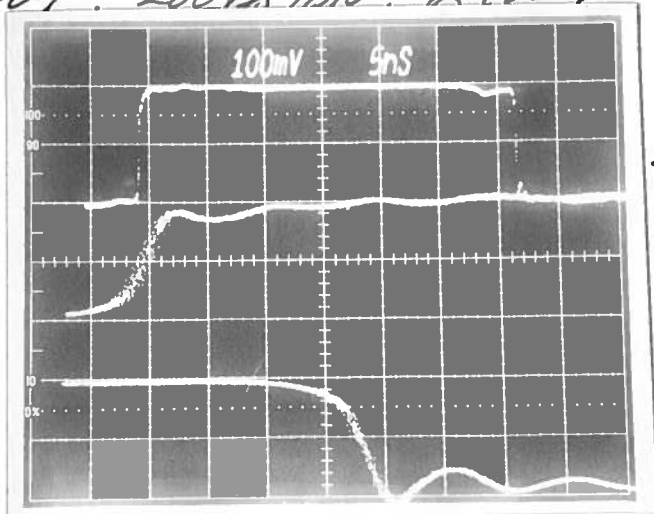
Model: *AVPP-2-B-P*

S.N.: *11115*

Date: *MAR 9 2005*



0.4 to 8 ns 10V/DIV
TOP: 1 ns/DIV, PW_{MIN}, PW_{MID}, PW_{MAX}
BOT: 200 ps/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:
← 200 ps/DIV 100 - 240 V
RISE TIME 50 - 60 Hz.

← 200 ps/DIV
FALL TIME

PRF = 100 KHz
(40 dB ATTN)



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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:	11115	MAC address:	00:90:c2:c6:b8:c3				
Firmware revision:	3.19						
Internal trigger checked at:	10 Hz	100 Hz	1 kHz	10 kHz	100 kHz		
Actual measured output ¹ :	9.95 Hz	99.3 Hz	0.992 kHz	9.95 kHz	100.3 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 50 Ohms		
Actual measured output ² :	1.0 ns	4.9 ns	20.2 ns	99.5 ns			
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, +20V to 50Ω		
Actual measured output ¹ :	101 ns	0.997 us	9.98 us	99.8 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:	4 ns, +5V	4 ns, +20V	40 ns, +5V	40 ns, +20V	10 kHz, to 50 Ohms		
Actual measured output ² :	+4.9V	+20.2V	+5.0V	+20.0V			
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:	0.30A @ 115V	Max. Load:	0.33A @ 115V			
		0.20A @ 230V		0.21A @ 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.