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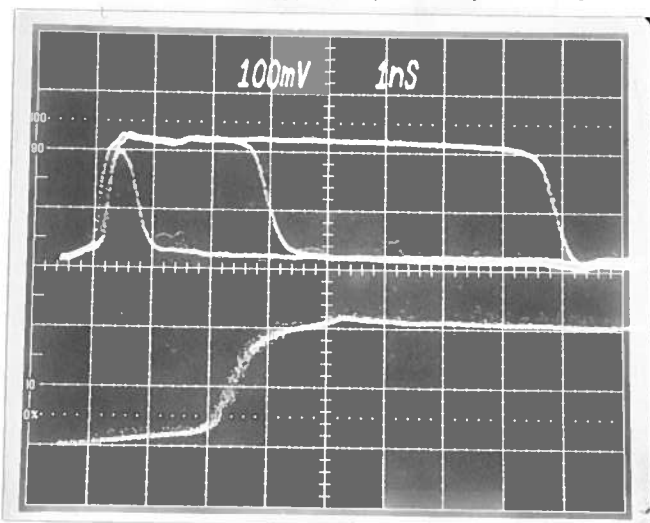
BOX 5120, LCD MERIVALE
 OTTAWA, ONTARIO
 CANADA K2C 3H4
 TEL: (613) 226-5772
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PERFORMANCE CHECKSHEET

Model: *AVPP-2-B-P-TNT*

S.N.: *11154*

Date: *MAY 4 2005*



a) Output Signal Amplitude:
0 TO +20V (TO 50n)

b) Pulse Width(FWHM):
0.4 TO 100 NS

c) Rise Time (20%-80%):
≤ 200 ps

d) Fall Time (80%-20%):
≤ 300 ps.

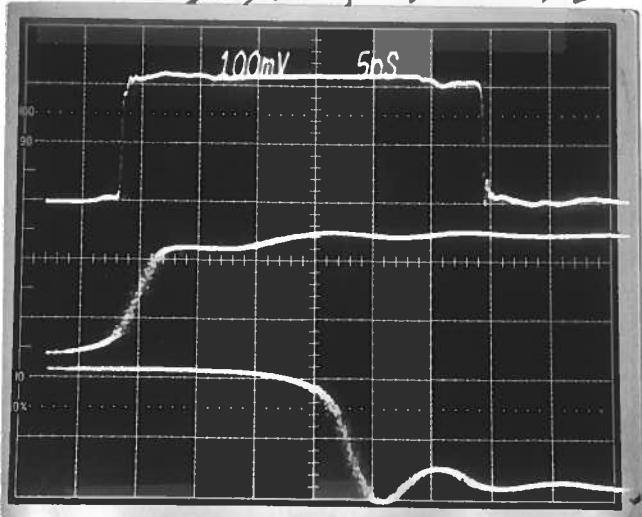
e) PRF:
0 TO 100 KHz.

f) Jitter, Stability:

OK

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

0.4 TO 8 NS RANGE, 10V/DIV
TOP: 1NS/DIV, PULSE, PULSE, PULSE
BOT: 200ps/DIV, RISE TIME



← 5 NS/DIV

← 200 ps/DIV
RISE TIME

← 200 ps/DIV
FALL TIME

8-100 NS RANGE

PRF = 100 KHz
40dB ATTEN.



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"-B" Functional Test & Calibration Certificate

Date of test:	May 4, 2005				Tester:	MJC
Programmed model name:	AVPP-2-B-P-TNT					
Programmed serial number:	11154	MAC address:	00:90:c2:c6:b8:ad			
Firmware revision:	3.26					
Internal trigger checked at:	10 Hz	100 Hz	1 kHz	10 kHz	100 kHz	
Actual measured output ¹ :	9.95 Hz	99.83 Hz	0.994 kHz	9.99 kHz	99.4 kHz	
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	10 ns	50 ns	100 ns	10 kHz, +20V	
Actual measured output ² :	0.98 ns	10.2 ns	50.6 ns	101 ns	into 50 Ohms	
PW _{in} = PW _{out} mode checked:	N/A	DC mode checked: N/A				
Duty Cycle Limit:	10%					
Delay nulled:	Yes (at maximum PW)					
Delay checked at:	100 ns	1 us	10 us	100 us	100 Hz, +20V	
Actual measured output ¹ :	98.6 ns	0.997 us	9.96 us	99.7us	into 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:	4 ns, +5V	4 ns, +20V	100 ns, +5V	100 ns, +20V	10 kHz, into 50 Ohms	
Actual measured output ² :	+5.0V	+19.9V	+5.2V	+20.0V		
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: Yes				
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:	158H	Main:	108M4		
Overload Trigger Resistance:	Trips at:	N/A	Installed:	20k		
DC fuses:	Main:	1.6A	Overload:	0.5A		
AC Current:	Quiescent:	0.31A @ 115V 0.20A @ 230V	Max. Load:	0.34A @ 115V 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					
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.