



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/

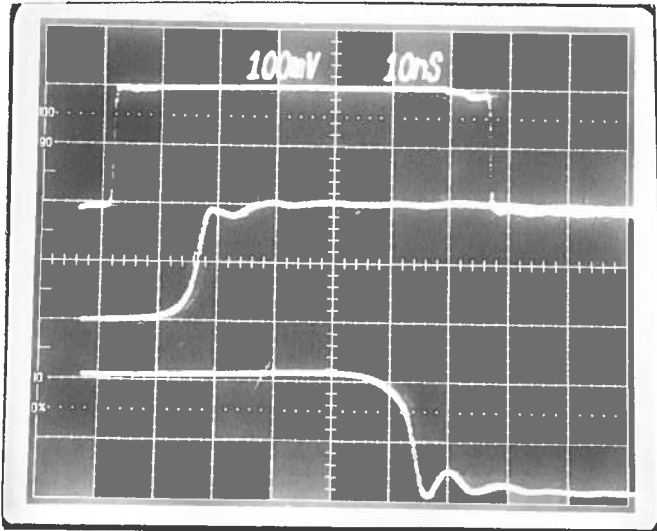
BOX 5120, LCD MERIVALE
OTTAWA, ONTARIO
CANADA K2C 3H4
TEL: (613) 226-5772
FAX: (613) 226-2802

PERFORMANCE CHECKSHEET

Model: *AV100A-2-B-P*

S.N.: *11068*

Date: *DEC 15 2004*



40 dB ATTN : 10 V/DIV

① *10 ns / DIV*

② *500 ps / DIV (RISE TIME)*

③ *500 ps / DIV (FALL TIME)*

PRF = 1.0 MHz

a) Output Signal Amplitude:

*0 TO +20 Volts
(TO 50Ω)*

b) Pulse Width(FWHM):

*10 NS TO 200 NS
(10% MAX DUTY CYCLE)*

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

≤ 300 ps

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

≤ 300 ps

e) PRF:

*0 TO 10 MHz
(10% MAX DUTY CYCLE)*

f) Jitter, Stability:

OK

g) Prime Power:

*100 - 240 V
50 - 60 MHz*



AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS
SINCE 1975

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"-B" Functional Test & Calibration Certificate

Date of test:	December 15, 2004				Tester:	MJC
Programmed model name:	AVMR-2-B-P					
Programmed serial number:	11068	MAC address:		N/A		
Firmware revision:	2.60					
Internal trigger checked at:	1 Hz	1 kHz	10 kHz	1 MHz	10 MHz	
Actual measured output ¹ :	0.996 Hz	0.996 kHz	9.95 kHz	1.001 MHz	9.94 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:	10 ns	50 ns	100 ns	200 ns	100 kHz, +20V to 50 Ohms	
Actual measured output ² :	9.9 ns	51.7 ns	101 ns	200 ns		
PW _{in} = PW _{out} mode checked:	N/A		DC mode checked: N/A			
Duty Cycle Limit:	10%					
Delay nulled:	Yes					
Delay checked at:	100 ns	1 us	10 us	100 us	100 Hz, +20V to 50 Ohms	
Actual measured output ¹ :	99.5 ns	1.001 us	10.03 us	100.4 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	+20V	100 kHz, 100 ns to 50 Ohms	
Actual measured output ² :	+2.04V	+5.0V	+10.0V	+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:	Yes					
PN trigger pull-downs installed:	N/A					
Sync pulse width checked:	100 ns nominal					
Circuit Boards:	PS:	158G	Main:	108H		
Overload Trigger Resistance:	Trips at:	N/A	Installed:	12k		
DC fuses:	Main:	1.6A	Overload:	0.5A		
AC Current:	Quiescent:	0.21A @ 115V 0.16A @ 230V	Max. Load:	0.33A @ 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					
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.