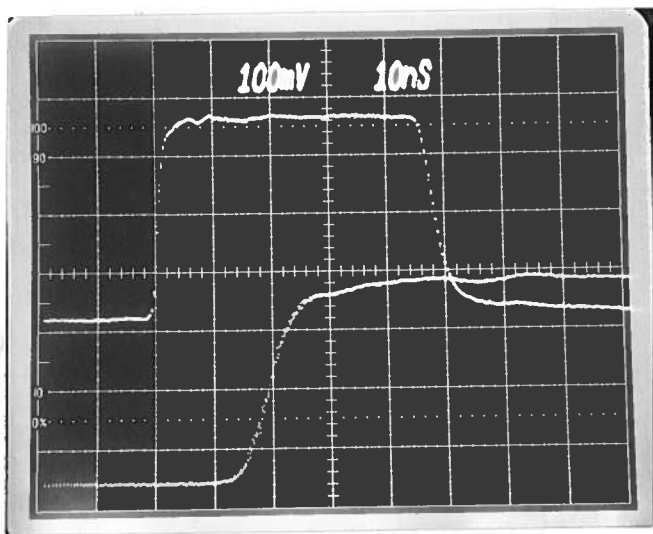


PULSE GENERATOR
PERFORMANCE CHECK

Model: *AVL-2-B-P*

S.N.: *10691*

Date: *JUNE 26 2003*



- a) Output signal amplitude:
0 TO +320 V
- b) Pulse width:
5 TO 100 NS
- c) Rise time:
≤ 2 NS
- d) Fall time:
≤ 3 NS
- e) PRF:
0 TO 5 KHz
- f) Jitter, stability:

g) Prime power: *OK*
120/240V
50-60 Hz

[Signature]

60 dB ATTEN.: 100 VOLTS/DIV
TOP 10 NS/DIV
BUT 2 NS/DIV (RISE TIME)

PRF = 2 KHz

AVTECH**AVTECH ELECTROSYSTEMS LTD.**NANOSECOND WAVEFORM ELECTRONICS
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 TEL: (315) 472-5270
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 TEL: 1-800-265-6681
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 e-mail: info@avtechpulse.com
 http://www.avtechpulse.com

 BOX 5120, LCD MERIVALE
 OTTAWA, ONTARIO
 CANADA K2C 3H4
 TEL: (613) 226-5772
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"-B" Functional Test & Calibration Certificate

Date of test:	June 26, 2003				Tester:	MJC
Programmed model name:	AVL-2-B-P					
Programmed serial number:	10691					
Firmware revision:	2.50					
Internal trigger checked at:	5 Hz	50 Hz	500 Hz	5 kHz		
Actual measured output ¹ :	4.97 Hz	49.8 Hz	497 Hz	4.99 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:	5 ns	20 ns	50 ns	100 ns	2 kHz, +320V	
Actual measured output ² :	5.2 ns	20.5 ns	50.5 ns	100 ns	to 50 Ohms	
PWin = PWout mode checked:	N/A			DC mode checked:	N/A	
Duty Cycle Limit:	N/A					
Delay nulled:	yes					
Delay checked at:	100 ns	200 ns	500 ns	2 kHz, +320V		
Actual measured output ¹ :	105 ns	200 ns	502 ns	to 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:	+20V	+50V	+150	+320V	2 kHz, 40 ns to	
Actual measured output ² :	+20V	+52V	+148V	+322V	50 Ohms	
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					
LCD pull-ups installed:	yes					
PN trigger pull-downs installed:	N/A					
PW stable during amplitude changes:	yes					
Sync pulse width checked:	200 ns nom.					
Circuit Boards:	PS:	93	Main:	108B		
Overload Trigger Resistance:	Trips at:	N/A	Installed:	12k		
DC fuses:	Positive:	0.5A	Negative:	N/A		
AC Current:	Quiescent:	0.351A@115V 0.165A@230V	Max. Load:	0.395A@115V 0.193A@230V		
AC fuse:	1A					
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 system (Cal. Label 112506) for PW < 5 ns.