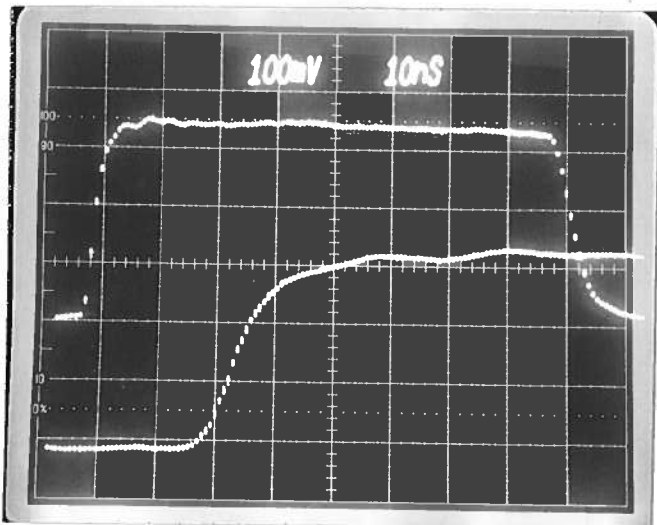


PULSE GENERATOR
PERFORMANCE CHECK

Model: *AVL-2-B-05-P*

S.N.: *10760*

Date: *04 21 2003*



60 dB ATTN. 100V/DIV

TBR 10 ns/DIV

RT 2 ns/DIV (RISE TIME)

PRF = 2 KHz.

- a) Output signal amplitude:
0 to +320V (to 50Ω)
- 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:
OK
- g) Prime power:
120 - 240V

50/60 Hz.



AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS
SINCE 1975

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OGDENSBURG, NY
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TEL: 1-800-265-6681
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BOX 5120, LCD MERIVALE
OTTAWA, ONTARIO
CANADA K2C 3H4
TEL: (613) 226-5772
FAX: (613) 226-2802

"-B" Functional Test & Calibration Certificate

Date of test:	October 20, 2003	Tester: MJC			
Programmed model name:	AVL-2-B-OS-P				
Programmed serial number:	10760				
Firmware revision:	2.53				
Internal trigger checked at:	5 Hz	50 Hz	500 Hz	5 kHz	
Actual measured output ¹ :	4.95 Hz	49.5 Hz	497 Hz	4.98 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:	10 ns	20 ns	50 ns	100 ns	FWHM, 2kHz,
Actual measured output ² :	9.9 ns	20.6 ns	52.5 ns	101.6 ns	+320V to 50Ω
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, 100 ns,
Actual measured output ¹ :	104 ns	202 ns	505 ns		+320V to 50Ω
Double pulse checked:	N/A				
Invert mode checked:	N/A				
ECL/TTL modes checked:	N/A				
Zout switch checked:	N/A				
Amplitude checked at:	+50V	+100V	+200V	+320V	2 kHz, 50 ns
Actual measured output ² :	+52V	+100V	+199V	+320V	to 50Ω
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				
Offset nulled (output off):	N/A				
Amplitude-dependent offset nulled:					
RS-232 checked:	Yes				
LCD pull-ups installed:	Yes				
PN trigger pull-downs installed:	N/A				
Sync pulse width checked:	200 ns nominal				
Circuit Boards:	PS: 158D	Main: 108B			
Overload Trigger Resistance:	Trips at: 32k	Installed: 22k			
DC fuses:	Positive: 1A, 0.5A	Negative: N/A			
AC Current:	Quiescent: 0.22A @ 115V	Max. Load: 0.28A @ 115V			
		0.17A @ 230V		0.19A @ 230V	
AC fuse:	0.25A (for 240V)				
1.5 kV RMS, 5 second 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.