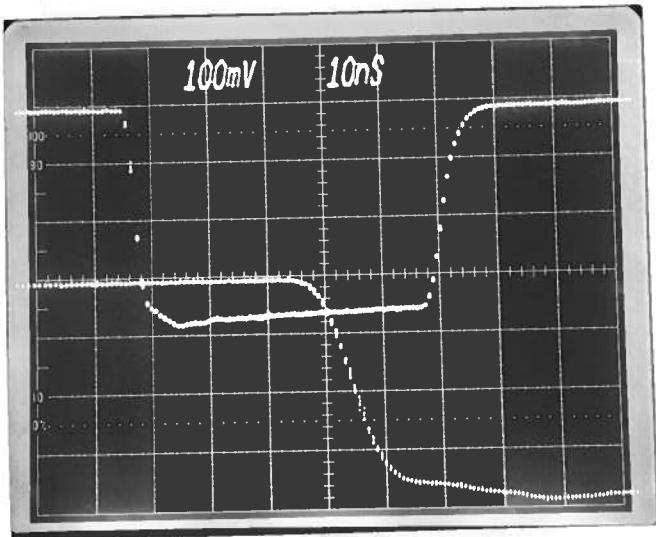


PULSE GENERATOR
PERFORMANCE CHECK

Model: *ANL-2-B-N*
S.N.: *10321*
Date: *Aug 1 2002*



- a) Output signal amplitude:
0 to -350V (70.50V)
- 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 / 2500 V
50-60 Hz

60 dB ATTEN
-100 VOLT/DIV
TOT 10 ns/DIV
BOT 2 ns/DIV (ALL 50 MHz)
PRF = 2 kHz



AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS
SINCE 1975

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"-B" Functional Test & Calibration Certificate

Date of test:	August 1, 2002				Tester:	MJC	
Programmed model name:	AVL-2-B-N						
Programmed serial number:	10321						
Firmware revision:	2.40						
Internal trigger checked at:	5 Hz	50 Hz	500 Hz	5 kHz			
Actual measured output ¹ :	4.97 Hz	49.7 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:	10 ns	20 ns	50 ns	100 ns	1 kHz, -350V		
Actual measured output ² :	9.5 ns	19 ns	51 ns	100 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	200 ns	500 ns				
Actual measured output ¹ :	100.5 ns	199 ns	505 ns	1 kHz, -350V			
Double pulse checked:	N/A						
Invert mode checked:	N/A						
ECL/TTL modes checked:	N/A						
Zout switch checked:	N/A						
Amplitude checked at:	-100V	-200V	-350V	1 kHz, 100 ns			
Actual measured output ² :	-102V	-200V	-352V				
Amplitude polarity:	-						
Zout calibration:	N/A						
Electronic amplitude control:	N/A						
External amplify mode:	N/A						
Ultraviolet flux removed:	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						
Sync pulse width checked:	200 ns						
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 at 115 VAC:	Quiescent:	0.39A	Max. Load:	0.46A			
AC fuse:	1A						
120/240V operation:	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 system (Cal. Label 112506) for PW < 5 ns.