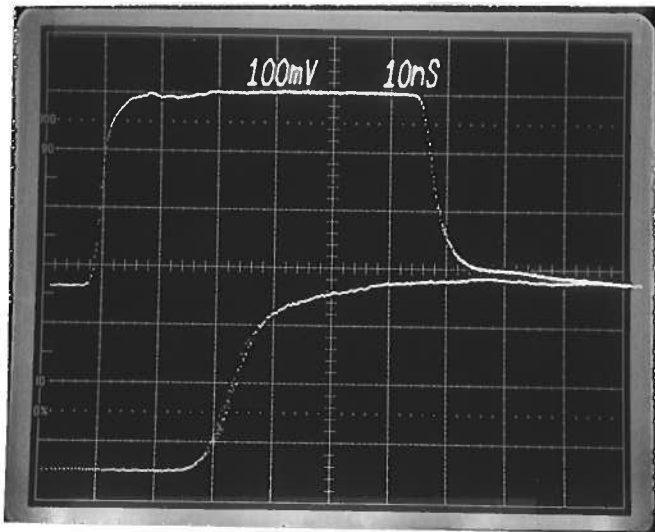


PULSE GENERATOR
PERFORMANCE CHECK

Model: *AUL-2-B-PN-M*

S.N.: *10643*

Date: *JUN 30 2003*



- a) Output signal amplitude:
0.70 ± 350 V (70.50 V)
- b) Pulse width:
5 to 100 ns
- c) Rise time:
≤ 2 ns
- d) Fall time:
≤ 3 ns
- e) PRF: *0.70 5 kHz*
- f) Jitter, stability:
OK
- g) Prime power:
100 ± 10 V_{0.45}
50-60 MHz

60 dB ATTEN

100 V_{0.45}/DIV

TOP 10 ns/DIV

BOI 2 ns/DIV
(RISE TIME)

PRF = 2 kHz



AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS
SINCE 1975

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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:	July 30, 2003	Tester:	MJC	
Programmed model name:	AVL-2-B-M-PN			
Programmed serial number:	10643			
Firmware revision:	2.53			
Internal trigger checked at:	5 Hz	50 Hz	500 Hz	5 kHz
Actual measured output ¹ :	5.018 Hz	50.1 Hz	501 Hz	5.003 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
Actual measured output ² :	4.0 ns	19.1 ns	50.7 ns	100.3 ns
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	
Actual measured output ¹ :	103 ns	202 ns	505 ns	1 kHz, +350V 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:	-50V	+100V	-200V	+300V
Actual measured output ² :	-48V	+99V	-200V	+300V
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:	20 dB approx		Monitor offset nulled:	N/A
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			
Sync pulse width checked:	200 ns nom			
Circuit Boards:	PS: 93		Main: 108E	
Overload Trigger Resistance:	Trips at: 17.4k		Installed: 12k	
DC fuses:	Positive: 0.5A		Negative: N/A	
AC Current:	Quiescent: 0.32A @ 100V		Max. Load: 0.39A @ 100V	
			0.21A @ 230V	
AC fuse:	1A			
1.5 kV RMS, 5 second Hypot 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.