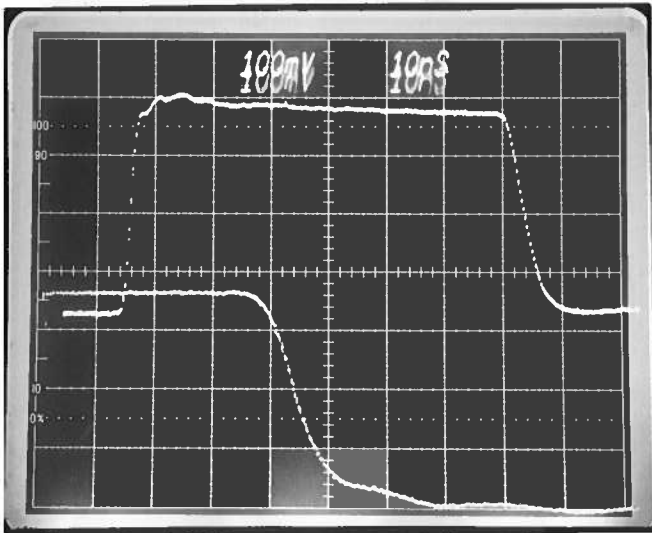


PULSE GENERATOR
PERFORMANCE CHECK

Model: *AVL-2-B-PN*
S.N.: *9887*
Date: *SEPT 12 2001*



- a) Output signal amplitude:
0 TO ± 350 V (7050m)
- 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:
100 ± 10 VOLT

60 db ATTEN
∴ 100 VOLT/PIV
PRF = 2 KHz

TOP P out, 10 NS/PIV

PJT N out, 2 NS/PIV (RISE TIME)

50-160 Hz
[Signature]



AVTECH ELECTROSYSTEMS LTD.
 NANOSECOND WAVEFORM ELECTRONICS
 SINCE 1975

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"-B" Functional Test & Calibration Certificate

Date of test:	September 12, 2001				Tester:	MJC
Programmed model name:	AVL-2-B-PN					
Programmed serial number:	9887					
Firmware revision:	2.27					
Internal trigger checked at:	1 Hz	10 Hz	100 Hz	1 kHz	5 kHz	
Actual measured output ¹ :	1.003 Hz	10.02 Hz	100.1 Hz	1.001 kHz	5.004 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	1 kHz, +350V to 50 Ohms	
Actual measured output ² :	5.3 ns	19.8 ns	49.5 ns	100.2 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	1 kHz, +350V to 50 Ohms		
Actual measured output ¹ :	101 ns	199 ns	503 ns			
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	+350V	1 kHz, 100 ns to 50 Ohms	
Actual measured output ² :	-50.0V	+98.8V	-199V	+348V		
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			Monitor offset nulled:		
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					
Sync pulse width checked:	200 ns					
Circuit Boards:	PS:	93	Main:	108B		
Overload Trigger Resistance:	Trips at:	N/A	Installed:	15k		
DC fuses:	Positive:	0.5A	Negative:	N/A		
AC Current at 115 VAC:	Quiescent:	0.46A (100V)	Max. Load:	0.55A (100V)		
AC fuse:	1A					
Photographed:	yes					

¹ Checked with: Fluke PM6681 Counter, referenced to Datum ExacTime 9390-6000 GPS Frequency Reference

² Checked with: Tektronix TDS3052 digital oscilloscope for PW ≥ 5 ns,
 Tektronix 7704A/7S11/7T11/S4 sampling oscilloscope system for PW < 5 ns.