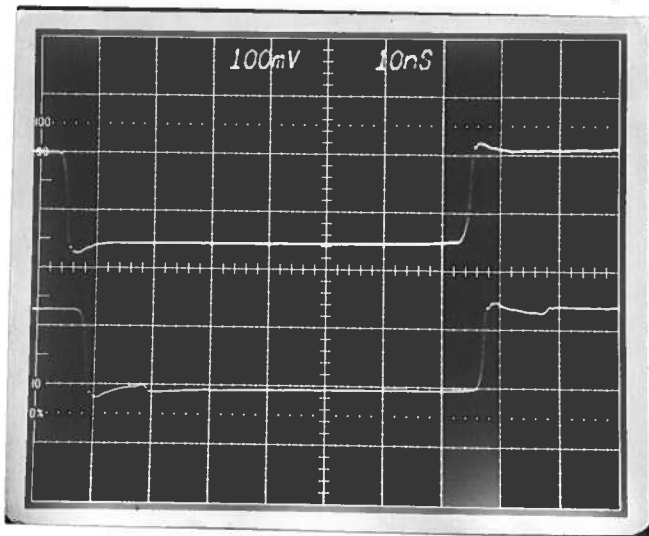


PULSE GENERATOR
PERFORMANCE CHECK

Model: AD-96-B-N

S.N.: 10054

Date: JAN 15 2002



- a) Output signal amplitude:
0 TO -1 AMP
(0 TO -50 V TO 50V)
- b) Pulse width:
20 TO 200 NS
- c) Rise time:
≤ 0.5 NS
- d) Fall time:
≤ 1 NS
- e) PRF: 0 TO 50 KHZ.
- f) Jitter, stability:
OK
- g) Prime power:

TR MAINFRAME OUT
TO 50 dB

120/240 V
50-60 HZ.

BIT AS TRP BUT WITH
MAX-S1 CONNECTED
TO MAINFRAME OUT.

VME OUT TO 30 dB.

1W 459 USED TO SIMULATE
A LASER DIODE.

AVTECH**AVTECH ELECTROSYSTEMS LTD.**NANOSECOND WAVEFORM ELECTRONICS
SINCE 1975
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 OGDENSBURG, NY
 U.S.A. 13669-0265
 TEL: (315) 472-5270
 FAX: (613) 226-2802

 TEL: 1-800-265-6681
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 P.O. BOX 5120 STN. F
 OTTAWA, ONTARIO
 CANADA K2C 3H4
 TEL: (613) 226-5772
 FAX: (613) 226-2802
"-B" Functional Test & Calibration Certificate

Date of test:	January 15, 2002				Tester:	MJC
Programmed model name:	AVO-9G-B-N					
Programmed serial number:	10054					
Firmware revision:	2.33					
Internal trigger checked at:	1 Hz	100 Hz	1 kHz	10 kHz	50 kHz	
Actual measured output ¹ :	1.000 Hz	99.6 Hz	0.996 kHz	9.97 kHz	50.22 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:	20 ns	50 ns	100 ns	200 ns	20 kHz, -50V into 50 Ohms	
Actual measured output ² :	20.2 ns	51.5 ns	102.4 ns	202.6 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		20 kHz, -50V into 50 Ohms	
Actual measured output ¹ :	100.0 ns	201.5 ns	506 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:	-5V	-10V	-25V	-50V	20 kHz, 200 ns into 50 Ohms	
Actual measured output ² :	-4.98V	-10.0V	-25.1V	-50.0V		
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					
Sync pulse width checked:	200 ns					
Circuit Boards:	PS:	93	Main:	108B		
Overload Trigger Resistance:	Trips at:	N/A	Installed:	39 k		
DC fuses:	Positive:	0.5A	Negative:	N/A		
AC Current at 115 VAC:	Quiescent:	0.45A	Max. Load:	0.50A		
AC fuse:	1A SB					
120/240V operation:	OK					
Photographed:	yes					

¹ Checked with: Fluke PM6681 Counter, referenced to Datum ExacTime 9390-6000 GPS Frequency Reference² Checked with: Tektronix TDS3052 digital oscilloscope for PW ≥ 5 ns,
Tektronix 7704A/7S11/7T11/S4 sampling oscilloscope system for PW < 5 ns.