

PULSE GENERATOR

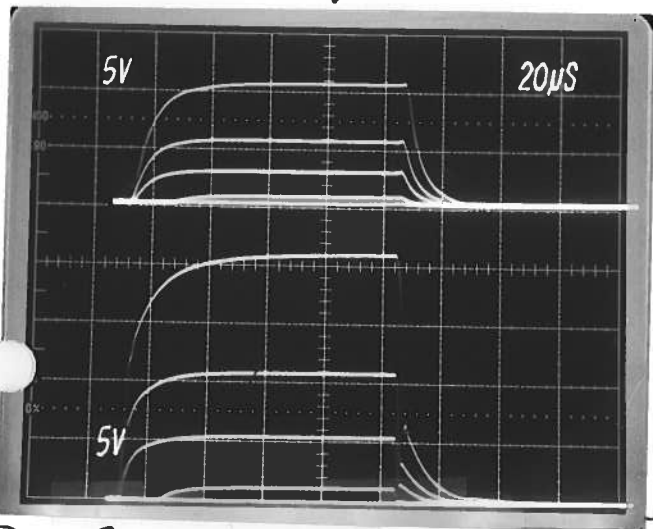
PERFORMANCE CHECK

Model: *AV-108B-3-P-B-RWC*

S.N.: *8910*

Date: *TEST 21 1999*

*[Handwritten signature]*

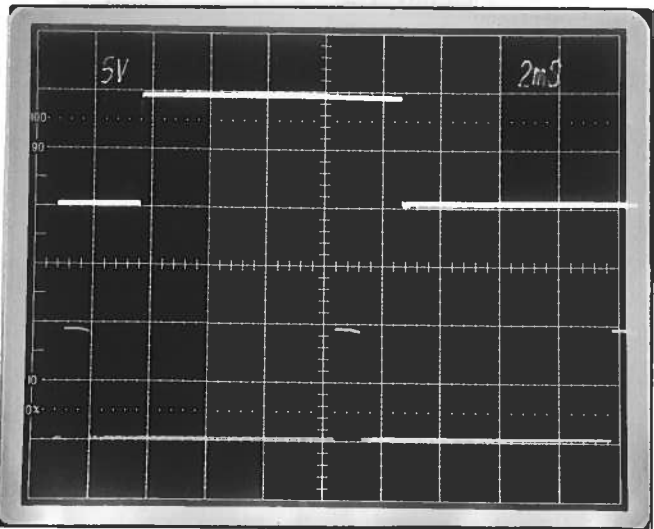


200A } MONITOR  
100A }  
50A } OUT  
10 }  
2 }

LOAD VOLTAGE  
R<sub>L</sub> = also

- a) Output signal amplitude: 0 TO +200 AMPS, 20 V MAX
- b) Pulse width: 10µS TO 100 nS
- c) Rise time: 10% MAX OUT CYCLE ≤ 10µS (5µS)
- d) Fall time: NOT POSSIBLE
- e) PRF: 0 TO 1 KHz
- f) Jitter, stability: 10% MAX OUT CYCLE

**(A) PULSE MODE (NARROW PULSES)**



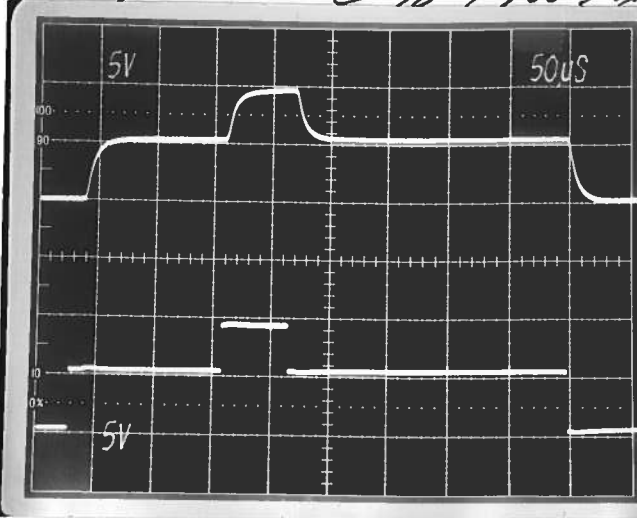
2 ms/DIV

- g) Prime power: a) 120/240V 50-60Hz
- b) DC OFFSET: 0 TO +100 AMPS

**(B) PULSE MODE (WIDE PULSES)**  
MONITOR OUT FOR  
I = 200 AMP.  
PRF ~ 10 Hz.  
PW ~ 10ms  
0 DC OFFSET

20µs/DIV } MONITOR  
OUT }  
100AMP/DIV }

VOLTAGE IN  
V → I  
CONVERTER  
MODE





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## "-B" Functional Test & Calibration Certificate

Date of test:	September 22, 1999				Tester:	MJC
Programmed model name:	AV-108B-3-P-B-RWC					
Programmed serial number:	8910					
Firmware revision:	2.02					
Internal trigger checked at:	1 Hz	10 Hz	100 Hz	1 kHz		
Actual measured output <sup>1</sup> :	1.01 Hz	10.01 Hz	101.0 Hz	1.009 kHz		
External trigger checked:	Yes	Gate checked:			Yes	
Trigger load resistor present:	Yes					
Manual trigger checked:	Yes	No spurious trigger in manual mode for output on/off/on:			Yes	
Pulse compression checked:	N/A					
Pulse width checked at:	10 us	1 ms	100 ms	Measured on TTL trigger line		
Actual measured output <sup>2</sup> :	10.0 us	0.995 ms	100.5 ms			
PWin = PWout mode checked:	N/A			DC mode checked:	N/A	
Duty Cycle Limit:	10%					
Delay nulled:	Yes, at TTL points					
Delay checked at:	10 us	1 ms	100 ms	Measured on TTL trigger line		
Actual measured output <sup>1</sup> :	10.01 us	1.000 ms	100.2 ms			
Double pulse checked:	N/A					
Invert mode checked:	N/A					
ECL/TTL modes checked:	N/A					
Zout switch checked:	N/A					
Amplitude checked at:	0 A	10 A	40 A	100 A	200 A	
Actual measured output <sup>2</sup> :	0 A	10 A	40 A	100 A	200 A	
Amplitude polarity:	+					
Zout calibration:	N/A					
Electronic amplitude control:	N/A					
External amplify mode:	Yes, 0-5V in					
Ultraviolet flux removed:	N/A					
Monitor V/I Ratio:	50 mV/Amp	Monitor offset nulled:			Yes	
LCD Monitor calibrated:	Yes	Monitor offset nulled:			Yes	
Mon. Single Pulse/Min PW OK:	N/A	SHA Cap:			0	
Offset checked at:	0 A	20 A				
Actual measured output <sup>2</sup> :	0 A	19.5 A				
Offset nulled (output on):	N/A			Amplitude-dependent offset nulled:	N/A	
Offset nulled (output off):	N/A					
RS-232 checked:	Yes					
Sync pulse width checked:	200 ns					
Circuit Boards:	PS:	93	Main:	86		
Overload Trigger Resistance:	Trips at:	N/A	Installed:	N/A		
DC fuses:	Positive:	N/A	Negative:	N/A		
AC Current at 115 VAC:	Quiescent:	0.6 A	Max. Load:	0.6 A		
Photographed:	Yes					

<sup>1</sup> Checked with: HP5370A Universal Time Interval Counter

<sup>2</sup> Checked with: Tektronix TDS360 digital oscilloscope for PW ≥ 5 ns,  
Tektronix 7704A/7S11/7T11/S4 sampling oscilloscope system for PW < 5 ns.