

PULSE GENERATOR

PERFORMANCE CHECK

Model: AV-107D-B-P-M-R5

S.N.: 9891

Date: AUG 21 2001

- a) Output signal amplitude:  
0 TO +20 AMPS TO
- b) Pulse width:  
0 TO +60  $\mu$ S  
50 NS TO 5.0  $\mu$ S
- c) Rise time:  
 $\leq 30$  NS
- d) Fall time:  
 $\leq 30$  NS
- e) PRF: 0 TO 500 Hz.
- f) Jitter, stability:  
OK
- g) Prime power:

120/240 V  
50-60 Hz



(14)

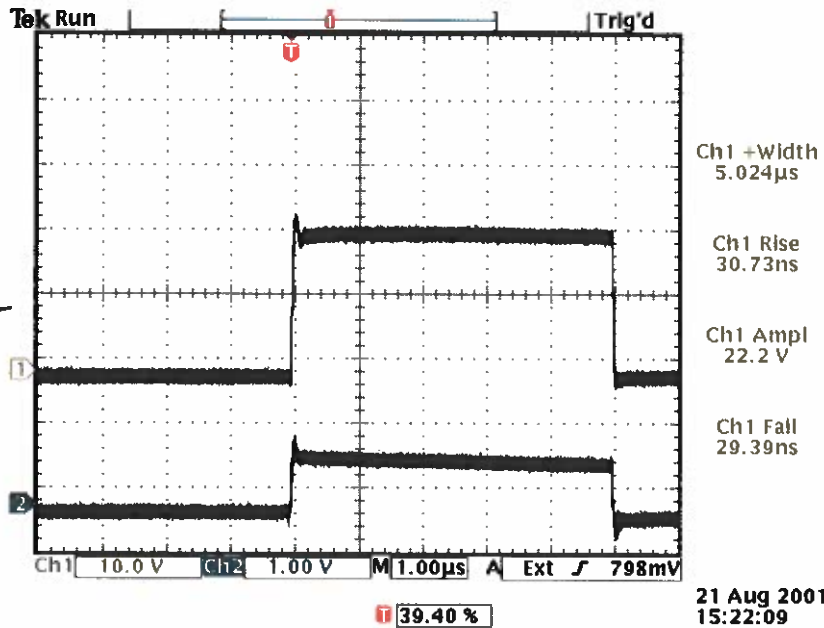
9891

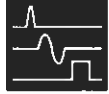
$$R_c = 1.1 \Omega$$

$$PRF = 500 \text{ kHz}$$

MMT output amp

LOAD  
VOLTAGE  
  
MONITOR  
OUT.



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**"-B" Functional Test & Calibration Certificate**

Date of test:	August 21, 2001				Tester:	MJC
Programmed model name:	AV-107D-B-P-M-R5					
Programmed serial number:	9891					
Firmware revision:	2.26					
Internal trigger checked at:	1 Hz	10 Hz	100 Hz	500 Hz		
Actual measured output <sup>1</sup> :	1.006 Hz	10.05 Hz	100.4 Hz	501.3 Hz		
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:	50 ns	200 ns	1 us	5 us	100 Hz, 20A to	
Actual measured output <sup>2</sup> :	50.7 ns	202 ns	1.001 us	5.01 us	1.1 Ohms	
PWin = PWout mode checked:	yes	DC mode checked:			N/A	
Duty Cycle Limit:	0.25%					
Delay nulled:	yes					
Delay checked at:	50 ns	200 ns	1 us	5 us	100 Hz, 20A to	
Actual measured output <sup>1</sup> :	52 ns	199 ns	0.997 us	5.05 us	1.1 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:	1 A	5 A	10 A	20 A	100 Hz, 1 us to	
Actual measured output <sup>2</sup> :	0.97 A	4.9 A	10.0 A	20.1 A	1.1 Ohms	
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:	1 V FS, approx	Monitor offset nulled:				
LCD Monitor calibrated:	N/A	Monitor offset nulled:				
Offset checked at:	N/A	Amplitude-dependent offset nulled:				
Actual measured output <sup>2</sup> :	N/A					
Offset nulled (output on):	N/A					
Offset nulled (output off):	N/A					
RS-232 checked:	OK					
Sync pulse width checked:	200 ns					
Circuit Boards:	PS:	93	Main:	108B		
Overload Trigger Resistance:	Trips at:	N/A	Installed:	15 k		
DC fuses:	Positive:	0.5A	Negative:	N/A		
AC Current at 115 VAC:	Quiescent:	0.42A	Max. Load:	0.57A		
AC fuse:	1A					
Photographed:	yes					

<sup>1</sup> Checked with: Fluke PM6681 Counter, referenced to Datum ExacTime 9390-6000 GPS Frequency Reference<sup>2</sup> Checked with: Tektronix TDS3052 digital oscilloscope for PW ≥ 5 ns,  
Tektronix 7704A/7S11/7T11/S4 sampling oscilloscope system for PW < 5 ns.