


PULSE GENERATOR
PERFORMANCE CHECK

Model: *AV-107.B-B-F*
S.N.: *9668*
Date: *FEB 27 2001*

- a) Output signal amplitude:
0 to + 2 Amp
- b) Pulse width: *(0 to + 60 V)*
20 NS to 200 NS
- c) Rise time:
≤ 10 NS
- d) Fall time:
≤ 10 NS
- e) PRF: *0 to 20 kHz*
- f) Jitter, stability: *OK*
- g) Prime power: *120/240 V*
50-60 Hz


(A)

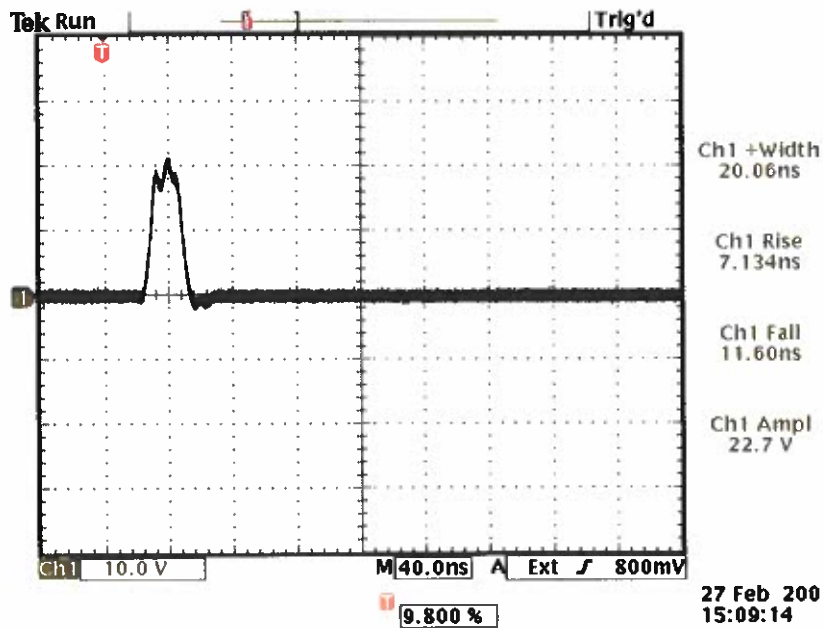
9660

PW NORC MIN

$R_L = 10 \Omega$

LOAD VOLTAGE

PRF = 20 KHz



(B)

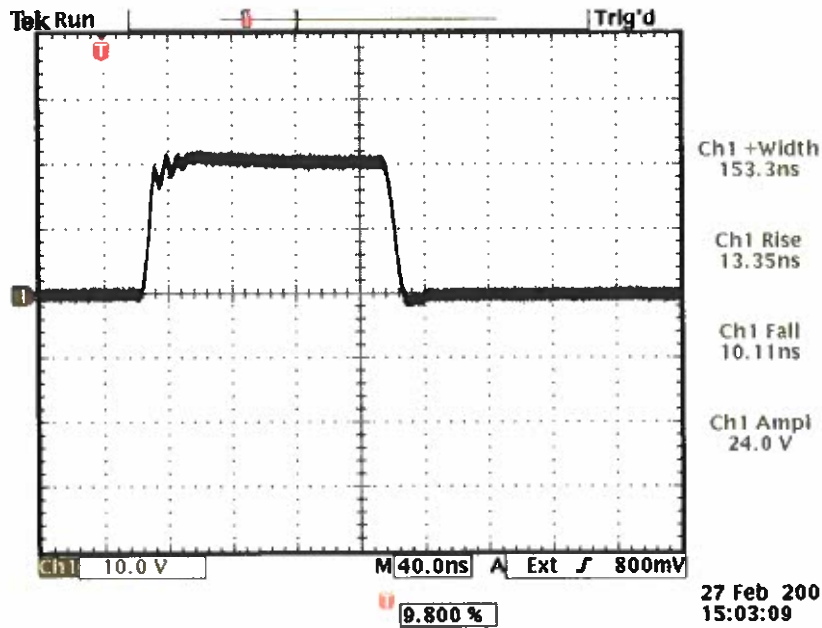
9668

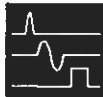
PW NBAR MAX

$R_L = 10 \Omega$

LOAD VOLTAGE

PAF = 20 KHz



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"-B" Functional Test & Calibration Certificate

Date of test:	February 26, 2001				Tester:	MJC
Programmed model name:	AV-107B-B-P					
Programmed serial number:	9668					
Firmware revision:	2.22					
Internal trigger checked at:	2 Hz	20 Hz	200 Hz	2 kHz	20 kHz	
Actual measured output ¹ :	2.01 Hz	20.1 Hz	201.2 Hz	2.012 kHz	19.91 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	100 Hz, 2A, into 10 Ohms	
Actual measured output ² :	20.1 ns	49.2 ns	99.2 ns	200.1 ns		
PWin = PWout mode checked:	N/A			DC mode checked:		
Duty Cycle Limit:	N/A					
Delay nulled:	yes					
Delay checked at:	100 ns	200 ns	500 ns	100 Hz, 2A, into 10 Ohms		
Actual measured output ¹ :	100.3 ns	200.0 ns	504 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:	+0.1A	+0.2A	+1A	+2A	100 Hz, 200ns, into 10 Ohms	
Actual measured output ² :	+0.099A	+0.200A	+1.00A	+2.01A		
Amplitude polarity:	+					
Zout calibration:	N/A					
Electronic amplitude control:	N/A					
External amplify mode:	N/A					
Ultravolt flux removed:	N/A					
Monitor V/I Ratio:	1V / 2A	Monitor offset nulled:				N/A
LCD Monitor calibrated:	N/A	Monitor offset nulled:				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:	108		
Overload Trigger Resistance:	Trips at:	N/A	Installed:	51k		
DC fuses:	Positive:	0.5A	Negative:	N/A		
AC Current at 115 VAC:	Quiescent:	0.41A	Max. Load:	0.48A		
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.