

PULSE GENERATOR
PERFORMANCE CHECK

Model: AV-106A-B-F
S.N.: 2451
Date: DEC 5 2000

- a) Output signal amplitude:
0 TO +30 AMP (TO
- b) Pulse width: (0 TO +30V
0.5 TO 50 μ S
(0.25% MAX DUTY CYCLE)
- c) Rise time:
 \leq 100 NS
- d) Fall time:
 \leq 50 NS
- e) PRF: 0 TO 1 KHZ
(0.25% MAX DUTY CYCLE)
- f) Jitter, stability:
O/K
- g) Prime power:
120/240V
50-60.HZ.



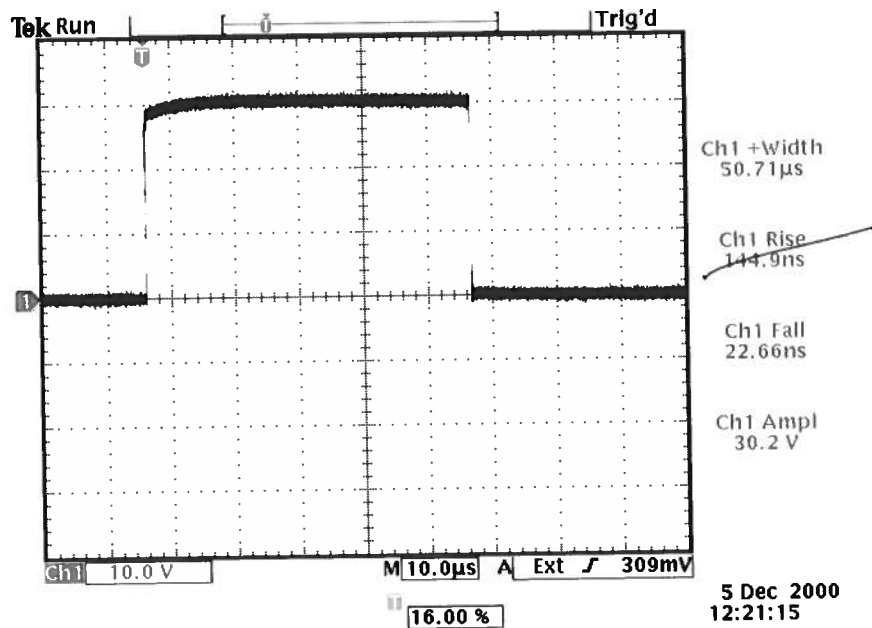
(A)

9451

WIDE PULSE, HUBB
DUTY CYCLE

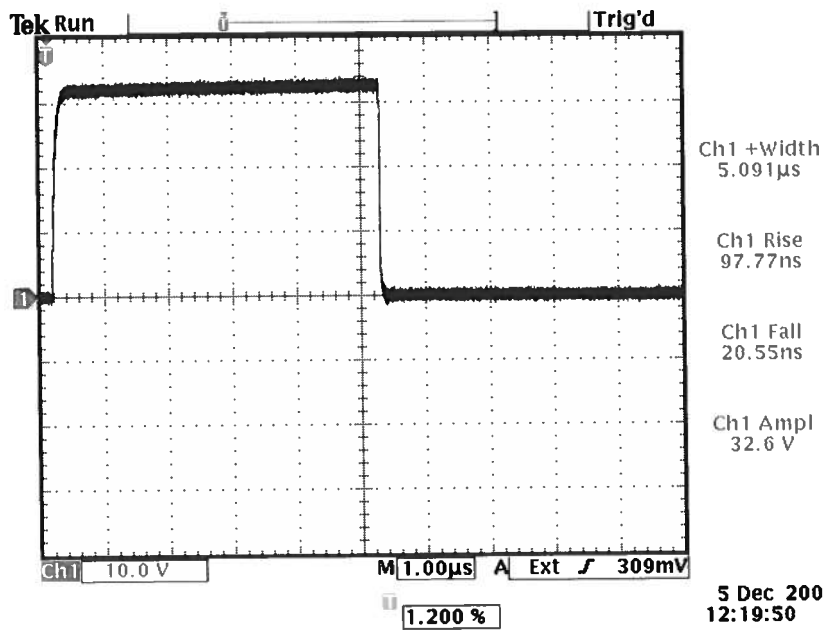
$$R_c = 1.1 \Omega$$

LOAD VOLTAGE
(≈ 30 AMPS)



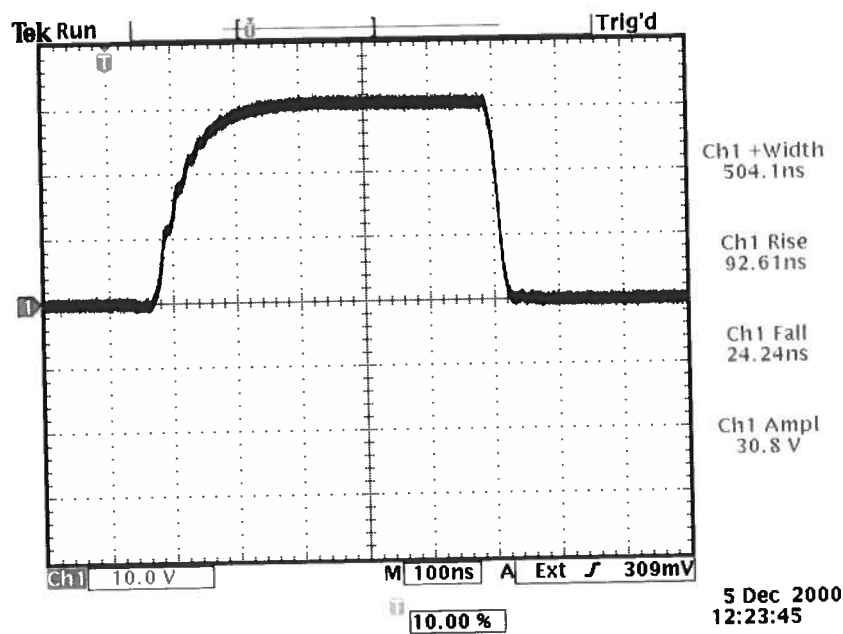
②

9451
MEDIUM PULSE WIDTH
 $R_c = 1.1 \Omega$
LOAD VOLTAGE
(30 AMPS)



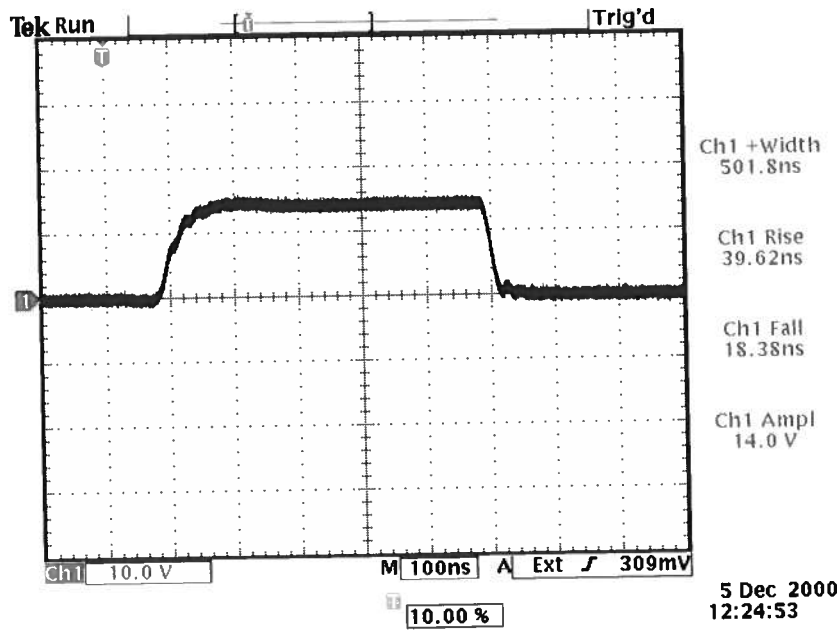
©

9451
NARROW PULSE
 $R_c = 1.1 \Omega$
LOAD VOLTAGE
(≈ 30 AMPS)



①

945/
AS ② BUT
 ≈ 15 AMPS O/CIT
 $TD \approx 1.1 \mu$





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"-B" Functional Test & Calibration Certificate

Date of test:	December 5, 2000				Tester:	MJC
Programmed model name:	AV-106A-B-P					
Programmed serial number:	9451					
Firmware revision:	2.22					
Internal trigger checked at:	1 Hz	10 Hz	100 Hz	1 kHz		
Actual measured output ¹ :	0.9994 Hz	9.93 Hz	99.94 Hz	0.9995 kHz		
External trigger checked:	yes				Gate checked:	yes
Trigger load resistor present:	yes					
Manual trigger checked:	yes					
Pulse compression checked:	yes	Low Amplitude PW Distortion Nulled:			N/A	
Pulse width checked at:	500 ns	5 us	50 us	10 Hz, +30A,		
Actual measured output ² :	502 ns	5.07 us	50.7 us	into 1.1 Ohms		
PWin = PWout mode checked:	yes	DC mode checked:			N/A	
Duty Cycle Limit:	0.25%					
Delay nulled:	yes					
Delay checked at:	100 ns	1 us	10 us	50 us	10 Hz, +30A,	
Actual measured output ¹ :	102 ns	1.001 us	10.01 us	50.6 us	into 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:	+1A	+3A	+10A	+30A	10 Hz, 20 us,	
Actual measured output ² :	+0.96A	+3.00A	+10.2A	+30.3A	into 1.1 Ohms	
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:	N/A			Monitor offset nulled:		
LCD Monitor calibrated:	N/A			Monitor offset nulled:		
Mon. Single Pulse/Min PW OK:	N/A			SHA Cap:		
Offset checked at:	N/A					
Actual measured output ² :	N/A					
Offset nulled (output on):	N/A					
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:	28k	Installed:	24k		
DC fuses:	Positive:	0.5A	Negative:	N/A		
AC Current at 115 VAC:	Quiescent:	0.40A	Max. Load:	0.58A		
AC fuse:	1A					
Photographed:	yes					

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

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