

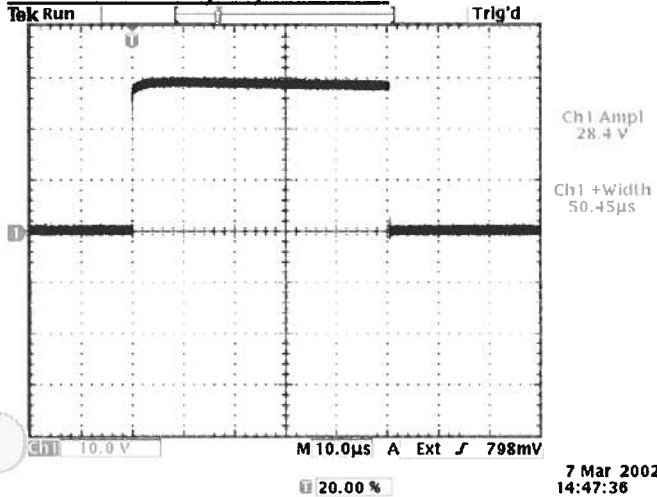
PULSE GENERATOR
PERFORMANCE CHECK

Model: AV-106A-B-P

S.N.: 10114

Date: March 7, 2002

Maximum Duty Cycle Test:



50 Hz, 50 us PW, +30A to 1.0 Ohms. 10us/div, 10V/div.

a) Output Signal Amplitude: 0 to +30A

b) Pulse Width: 50 ns - 50 us

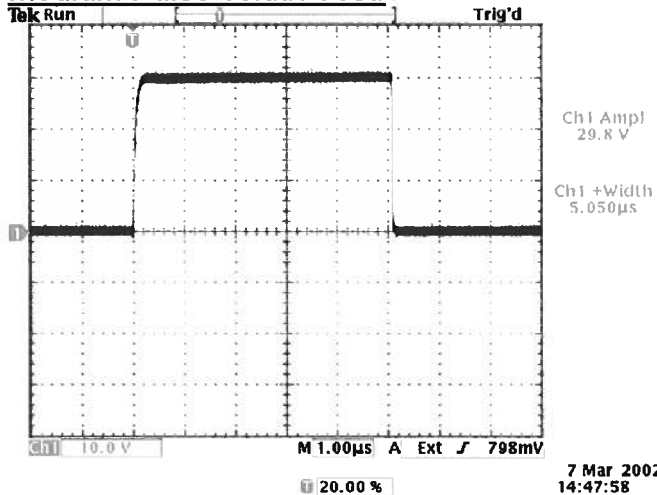
c) Rise Time: ≤ 100 ns

d) Fall Time: ≤ 50 ns

e) PRF: 1 - 1000 Hz

f) Jitter, Stability: OK

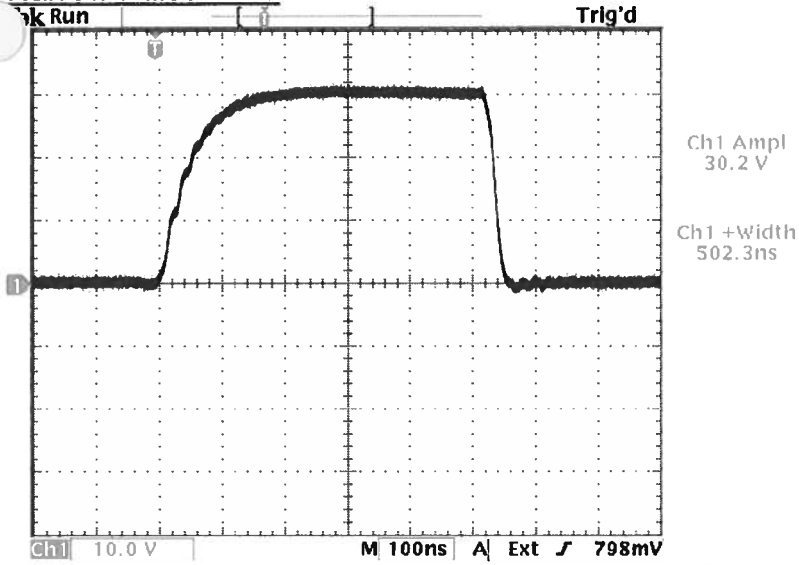
Medium Pulse Width Test:



50 Hz, 5 us PW, +30A to 1.0 Ohms. 1us/div, 10V/div.

g) Prime Power: 120/240V AC, 50-60 Hz,

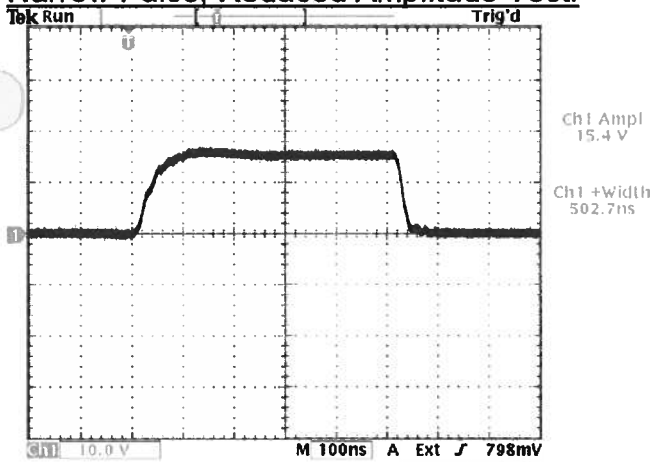
Narrow Pulse Test:



7 Mar 2002
14:48:23

19.40 %
50 Hz, 500 ns PW, +30A to 1.0 Ohms. 100 ns/div,
10V/div.

Narrow Pulse, Reduced Amplitude Test:



7 Mar 2002
14:48:43

19.40 %
50 Hz, 500 ns PW, +15A to 1.0 Ohms. 100 ns/div,
10V/div.



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"-B" Functional Test & Calibration Certificate

Date of test:	March 7, 2002				Tester:	MJC
Programmed model name:	AV-106A-B-P					
Programmed serial number:	10114					
Firmware revision:	2.36					
Temp, RH:	23.6°C, 20.0%					
Internal trigger checked at:	1 Hz	10 Hz	100 Hz	1 kHz		
Actual measured output ¹ :	1.001 Hz	9.96 Hz	99.6 Hz	0.997 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:	500 ns	5 us	50 us	50 Hz, 30A to 1.0 Ohms		
Actual measured output ² :	503 ns	5.05 us	50.5 us			
PW _{in} = PW _{out} mode checked:	yes			DC mode checked:	N/A	
Duty Cycle Limit:	0.25%					
Delay nulled:	yes					
Delay checked at:	500 ns	5 us	50 us	50 Hz, 30A to 1.0 Ohms		
Actual measured output ¹ :	505 ns	5.05 us	50.4 us			
Double pulse checked:	N/A					
Invert mode checked:	N/A					
ECL/TTL modes checked:	N/A					
Zout switch checked:	N/A					
Amplitude checked at:	+5A	+10A	+20A	+30A	100 Hz, 5 us to 1.0 Ohms	
Actual measured output ² :	+5.04 A	+10.1A	+20.6A	+30.2A		
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					
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:	OK					
Sync pulse width checked:	200 ns					
Circuit Boards:	PS:	93	Main:	108B		
Overload Trigger Resistance:	Trips at:	N/A	Installed:	22k		
DC fuses:	Positive:	0.5A	Negative:	N/A		
AC Current at 115 VAC:	Quiescent:	0.41A	Max. Load:	0.59A		
AC fuse:	0.5A (for 240V)					
120/240V operation:	OK					
Photographed:	yes					

¹ Checked with: Fluke PM6681 Counter (S/N 9446 066 81016), referenced to Datum ExacTime 9390-6000 (S/N 4461) GPS Frequency Reference

² Checked with: Tektronix TDS3052 digital oscilloscope (S/N B014783) for PW ≥ 5 ns, Tektronix 7704A/7S11/7T11/S4 sampling oscilloscope system (Cal. Label 112506) for PW < 5 ns.

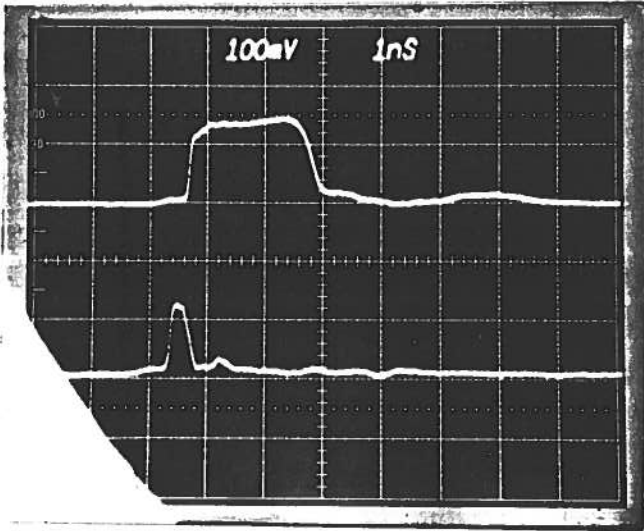
PULSE GENERATOR

PERFORMANCE CHECK

Model: AVP-AV-14V3-C-P-PN-~~BT~~-EW-50-ECL

S.N.: 10137

Date: MAR 14 2002



- a) Output signal amplitude: 0 TO ± 40 VOLTS (90)
- b) Pulse width: 50ns
- c) Rise time: 0.4 TO 2.0N
- d) Fall time: ≤ 150ps
- e) PRF: ≤ 250ps
- f) Jitter, stability: OK
- g) Prime power: 120/200V

50 db ATTEN

≈ 32 VOLTS/PW

PW max + PW min

PRF = 100 KHz

50-60 MHz