

PULSE GENERATOR
PERFORMANCE CHECK

Model: *AV02-A3-UTC-B*

S.N.: *9730*

Date: *MAY 18 2001*

- a) Output signal amplitude:
CH 1: 0 TO +60 VOLTS TO $R_L \geq 43\Omega$ (200 μ A)
CH 2: 0 TO +30 VOLTS TO $R_L \geq 43\Omega$ (100 μ A)
- b) Pulse width:
CH 1: 100 NS TO 2.0 μ S
CH 2: 30 NS TO 2.0 μ S.
- c) Rise time:
CH 1: ≤ 100 NS
CH 2: ≤ 100 NS
- d) Fall time:
CH 1: ≤ 100 NS
CH 2: ≤ 30 NS
- e) PRF:
0 TO 500 MHz.
- f) Jitter, stability:
OK
- g) Prime power:
120/200 V
50-60 MHz.



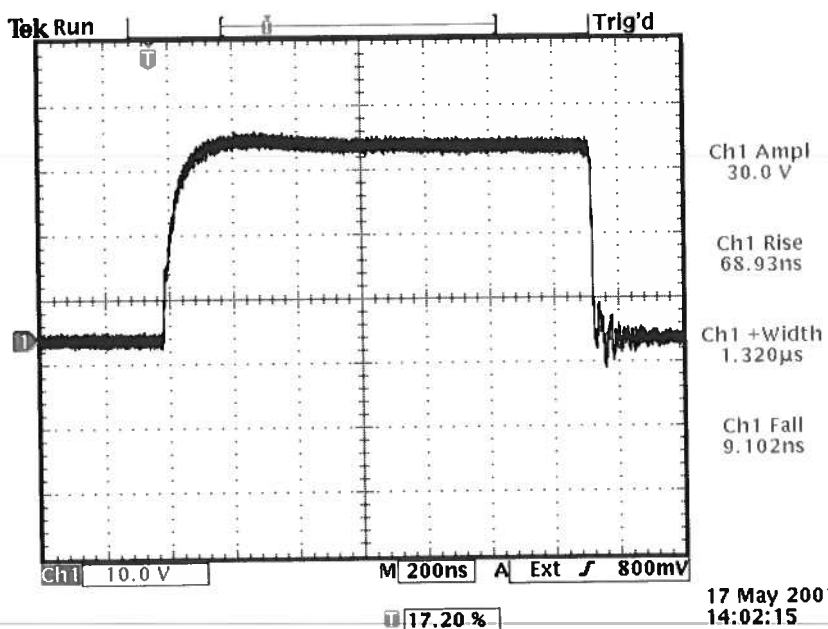
(A)

9730

CH 2

$R_c = 0.3 \Omega$

LOAD
VOLTAGE



(B)

9730

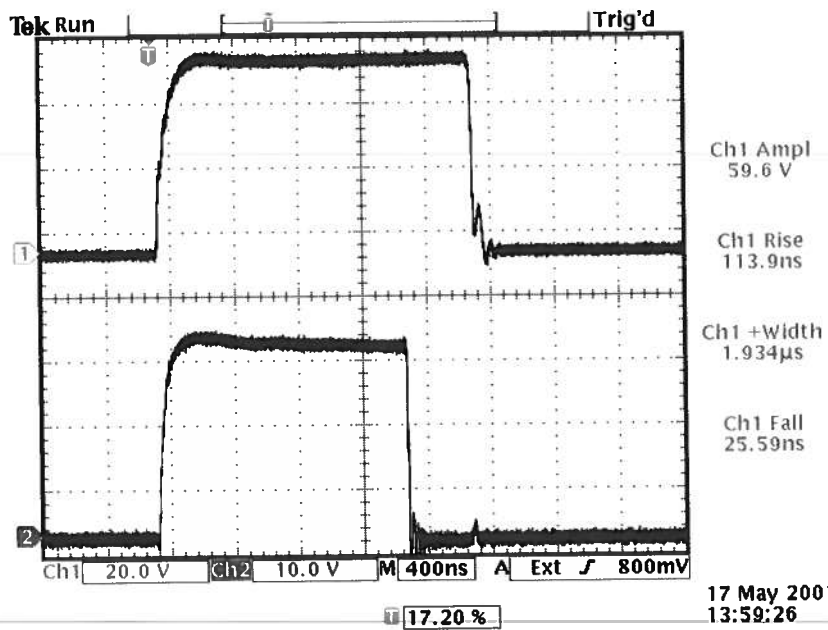
CH 1 & CH 2

PRF = 10 MHz

GPIB CONTROL

CH 1
LOAD V

CH 2
LOAD V





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"-B" Functional Test & Calibration Certificate

Date of test:	May 18, 2001				Tester:	MJC
Programmed model name:	AVOZ-A3-UTC-B					
Programmed serial number:	9730					
Firmware revision:	2.25UTC					
Internal trigger checked at:	1 Hz	10 Hz	100 Hz	500 Hz		
Actual measured output ¹ :	1.005 Hz	10.06 Hz	100.5 Hz	501.6 Hz		
External trigger checked:	yes, CH 1 & 2			Gate checked:	yes (INT only)	
Manual trigger checked:	yes					
Pulse compression checked:	yes				Low Amplitude PW Distortion Nulled:	N/A
Pulse width checked at:	CH1: 100 ns	CH1: 2 us	CH2: 100 ns	CH2: 2 us	100 Hz, max ampl, 0.3 Ohm	
Actual measured output ² :	101 ns	2.01 us	98.2 ns	1.95 us		
PWin = PWout mode checked:	yes, CH 1 & 2			DC mode checked:	N/A	
Duty Cycle Limit:	N/A					
Delay nulled:	yes					
Delay checked at:	100 ns	1 us	10 us	CH1 to CH2, max ampl		
Actual measured output ¹ :	100.0 ns	0.998 us	10.01 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:	CH1: 10V	CH1: 60V	CH2: 10V	CH2: 30V	100 Hz, max PW, 0.3 Ohm	
Actual measured output ² :	10.4 V	60.2V	10.3V	30.6V		
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:		
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:	108B		
Overload Trigger Resistance:	Trips at:	N/A	Installed:	3.9k		
DC fuses:	Positive:	2A	Negative:	N/A		
AC Current at 115 VAC:	Quiescent:	0.51A	Max. Load:	0.85A		
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.