

PULSE GENERATOR
PERFORMANCE CHECK

Model: AN02-A3-B-P

S.N.: 10494

Date: FEB 6 2003

- a) Output signal amplitude:
0 TO +100 VOLTS ($R_L \geq 1 \Omega$)
(100 AMPS MAX)
- b) Pulse width:
50 NS TO 2.0 US
(0.1% MAX DUTY CYCLE)
- c) Rise time:
 ≤ 30 NS
- d) Fall time:
 ≤ 30 NS
- e) PRF: 0 TO 20 KHz
(0.1% MAX DUTY CYCLE)
- f) Jitter, stability:
OK
- g) Prime power:
120/240 V
50-60 Hz



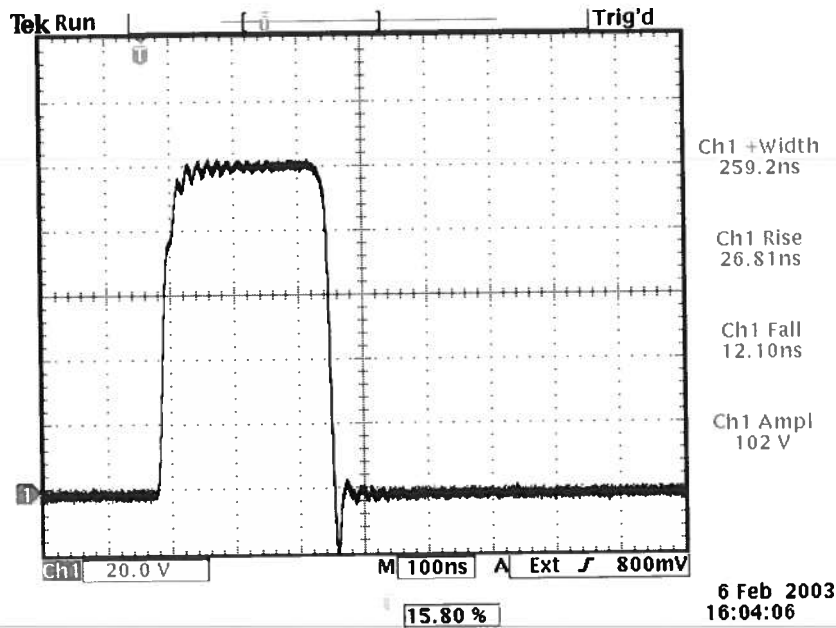
10494

$$R_L = 1.56 \Omega$$

NARROW PULSE

$$PRF = 200 \text{ Hz}$$

LOAD VOLTAGE



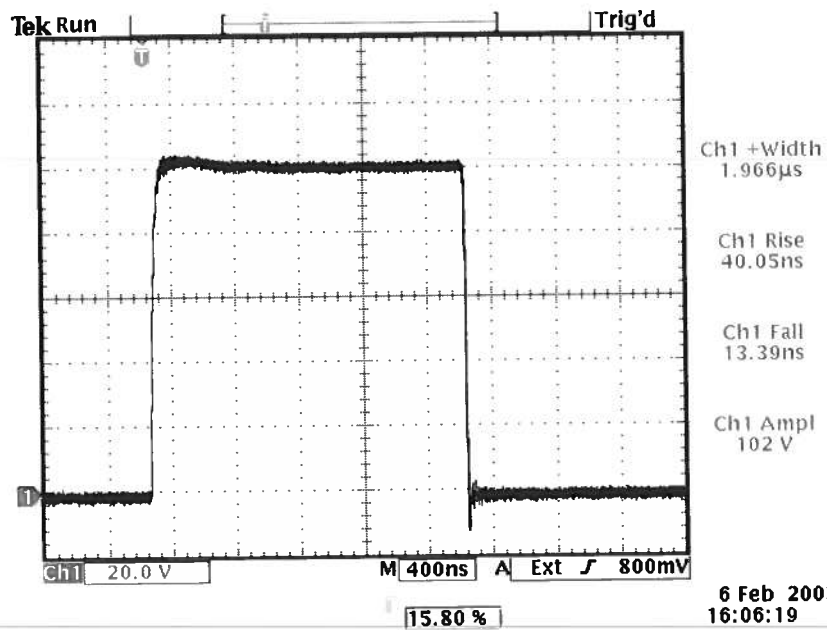
10494

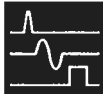
$$R_c = 0.94 \Omega$$

WIDE PULSE

$$PRF = 100 \text{ MHz}$$

LOAD VOLTAGE



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"-B" Functional Test & Calibration Certificate

Date of test:	February 6, 2003				Tester:	MJC
Programmed model name:	AVOZ-A3-B-P					
Programmed serial number:	10494					
Firmware revision:	2.44					
Internal trigger checked at:	2 Hz	20 Hz	200 Hz	2 kHz	20 kHz	
Actual measured output ¹ :	1.996 Hz	19.91 Hz	1992. Hz	1.997 kHz	20.02 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:	50 ns	100 ns	500 ns	2 us	100 Hz, +100V	
Actual measured output ² :	50.3 ns	100.3 ns	516 ns	1.999 us	to 0.94 Ohms	
PWIn = PWout mode checked:	N/A	DC mode checked:				N/A
Duty Cycle Limit:	0.1%					
Delay nulled:	yes					
Delay checked at:	100 ns	200 ns	500 ns	2 us	5 Hz, +100V to	
Actual measured output ¹ :	102 ns	203 ns	508 ns	2.02 us	0.94 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:	+10V	+20V	+50V	+100V	100 Hz, 2 us to	
Actual measured output ² :	+10.1V	+20.2V	+50.4V	+100.4V	0.94 Ohms	
Amplitude polarity:	+					
Zout calibration:	N/A					
Electronic amplitude control:	N/A					
External amplify mode:	N/A					
Bleeder resistors adequate:	yes					
Ultraviolet 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:	yes					
LCD pull-ups installed:	yes					
PN trigger pull-downs installed:	N/A					
PW stable during amplitude changes:	yes					
Sync pulse width checked:	200 ns nom					
Circuit Boards:	PS:	93	Main:	108E		
Overload Trigger Resistance:	Trips at:	8.1k	Installed:	6.2k		
DC fuses:	Positive:	1A	Negative:	N/A		
AC Current at 115 VAC:	Quiescent:	0.41A	Max. Load:	0.63A		
AC fuse:	1A					
120/240V operation:	OK	Fan operational:				yes
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.