

PULSE GENERATOR
PERFORMANCE CHECK

Model: *AKR-7B-B-P-R5*

S.N.: *9925*

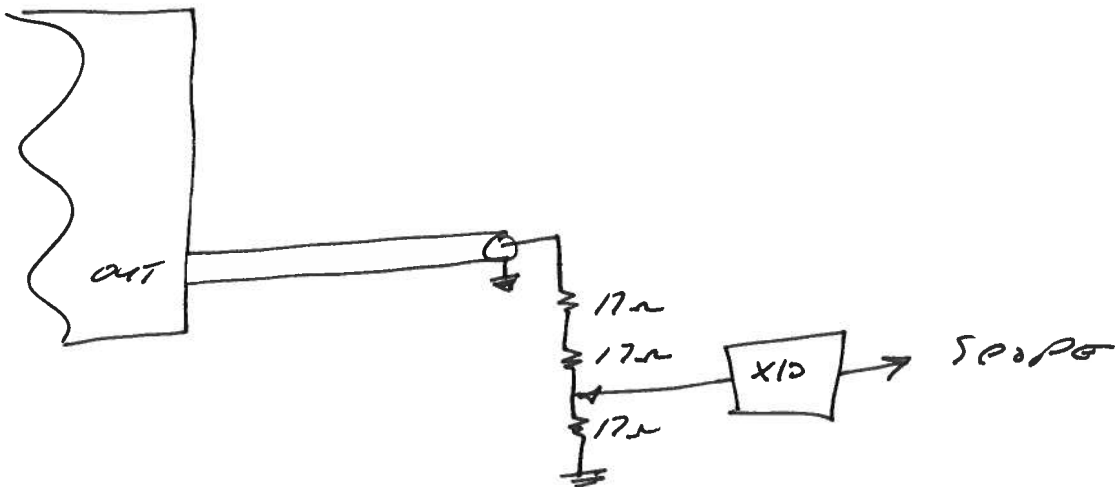
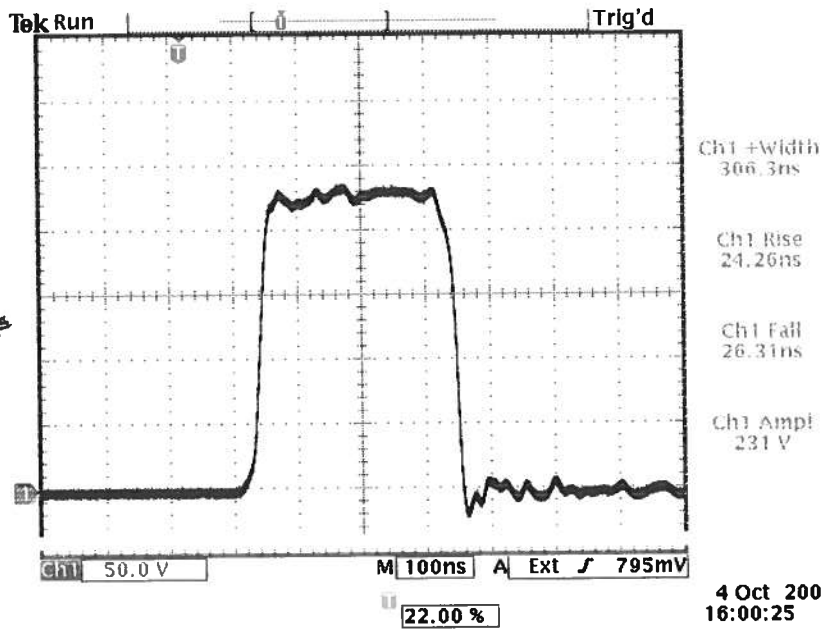
Date: *OCT 5 2001*

- a) Output signal amplitude:
0 TO + 700 V (RL > 50Ω)
- b) Pulse width:
0.1 TO 100 μS
(0.5% MAX DUTY CYCLE)
- c) Rise time:
≤ 50 NS
- d) Fall time:
≤ 50 NS
- e) PRF: *0 TO 10 KHz*
(0.5% MAX DUTY CYCLE)
- f) Jitter, stability:
OK
- g) Prime power:
120/240 V
50-60 Hz

(A)

9925
NARROW PULSE
 $R_c = 50 \Omega$
PRF = 10 KHz

LOAD
VOLTAGE



ⓑ

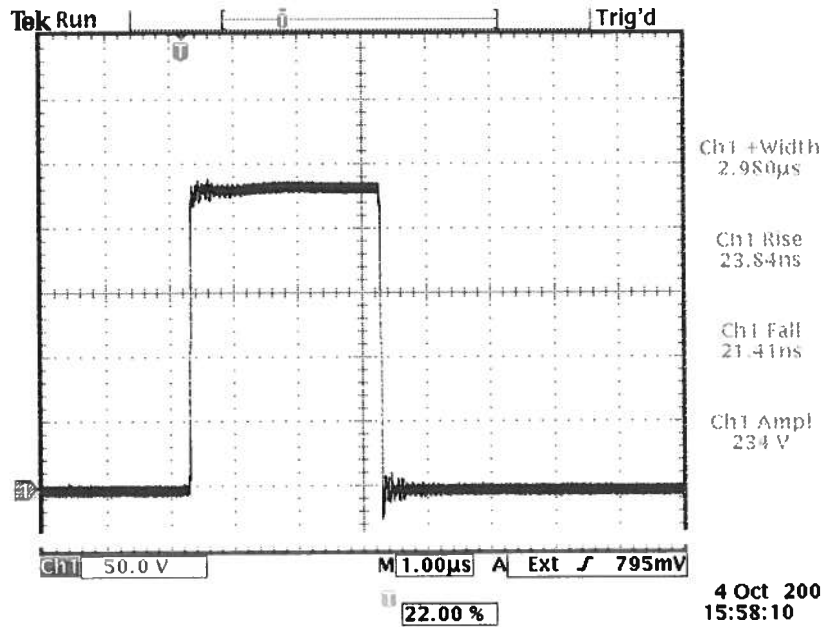
9925

3 u) PULSE WIDTH

$R_L = 50 \Omega$

PWF = 1 kHz.

LOAD AS PER ⓐ



②

9925

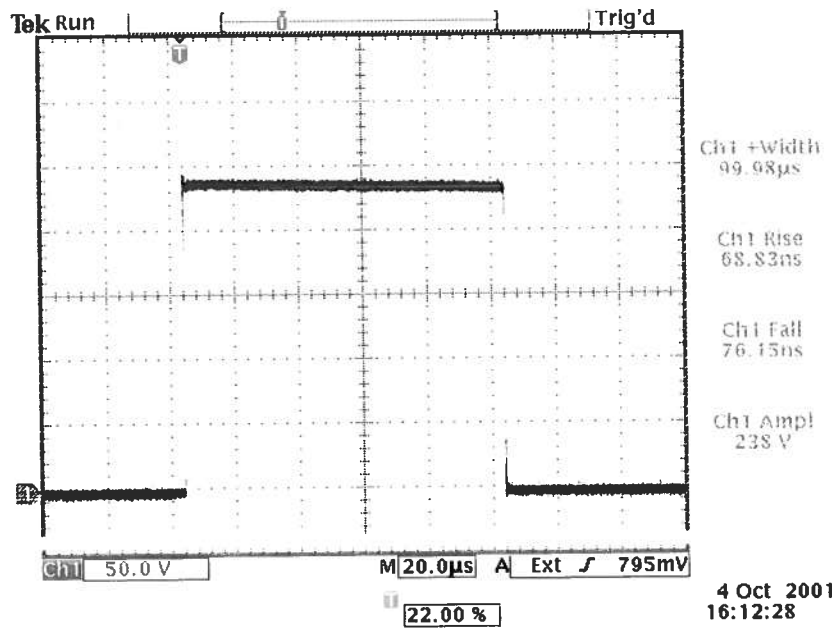
WIDE PULSE

$R_L = 50 \Omega$

PRF = 50 MHz

(MMA DUTY CYCLE)

LOAD AS PER (A)





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"-B" Functional Test & Calibration Certificate

Date of test:	October 5, 2001				Tester:	MJC
Programmed model name:	AVR-7B-B-P-R5					
Programmed serial number:	9925					
Firmware revision:	2.27					
Internal trigger checked at:	1 Hz	10 Hz	100 Hz	1 kHz	10 kHz	
Actual measured output ¹ :	1.003 Hz	10.00 Hz	100.0 Hz	0.999 kHz	10.00 kHz	
External trigger checked:	yes			Gate checked:	yes	
Manual trigger checked:	yes					
Pulse compression checked:	Low Amplitude PW Distortion Nulled:					
Pulse width checked at:	100 ns	1 us	10 us	100 us	1 Hz, +700V to 50 Ohms	
Actual measured output ² :	101 ns	0.996 us	10.00 us	99.96 us		
PW _{in} = PW _{out} mode checked:	yes			DC mode checked:	N/A	
Duty Cycle Limit:	0.5%					
Delay nulled:	yes					
Delay checked at:	100 ns	1 us	10 us	100 us	1 Hz, +700V to 50 Ohms	
Actual measured output ¹ :	102 ns	1.002 us	9.98 us	100.2 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:	+50V	+150V	+350V	+700	10 Hz, 10 us, to 50 Ohms	
Actual measured output ² :	+49.4V	+150V	+350V	+699		
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:	1.5k 2000 uF		
DC fuses:	Positive:	3A	Negative:	N/A		
AC Current at 115 VAC:	Quiescent:	0.38A	Max. Load:	1.1A		
AC fuse:	1.5A					
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.