

PULSE GENERATOR
PERFORMANCE CHECK

Model: AVR-3-B-PN-M-QPA*

S.N.: 9964

Date: SEPT 29 2001

- a) Output signal amplitude:
0 TO ± 200 V ($R_L \geq 50 \Omega$)
- b) Pulse width:
0.1 TO 100 μ s
- c) Rise time:
(2% MAX DUTY CYCLE)
 ≤ 10 NS
- d) Fall time:
 ≤ 10 NS
- e) PRF:
0 TO 10 KHZ.
(2% MAX DUTY CYCLE)
- f) Jitter, stability:
OK
- g) Prime power:
120 / 240 V

-QPA 2% MAX DUTY
CYCLE REPEATS
0.5% STANDARD.

(A)

9964

NARROW PULSE

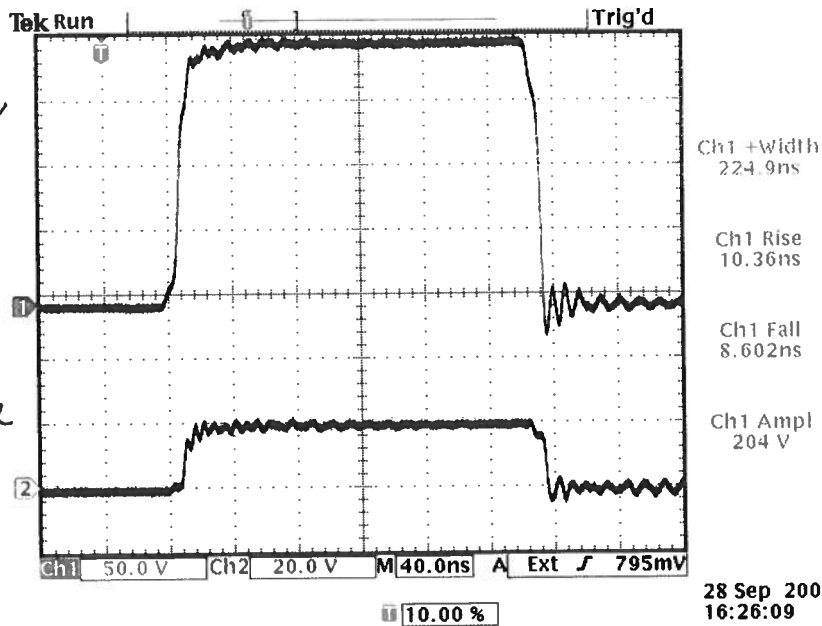
POS OUT.

$R_L = 50 \Omega$

$PBF \approx 10 \text{ KHz}$

LOAD V

MONITOR
OUT.



(B)

9964

NARROW PULSE

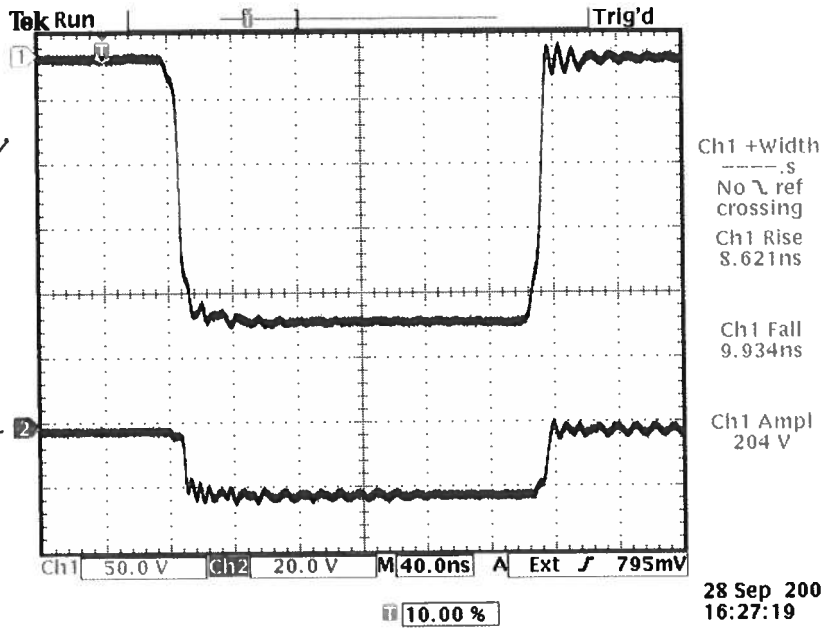
NEG OUT.

$R_c = 50 \Omega$

DUT = 10 K Ω

LOAD V

MONITOR
OUT.



②

9964

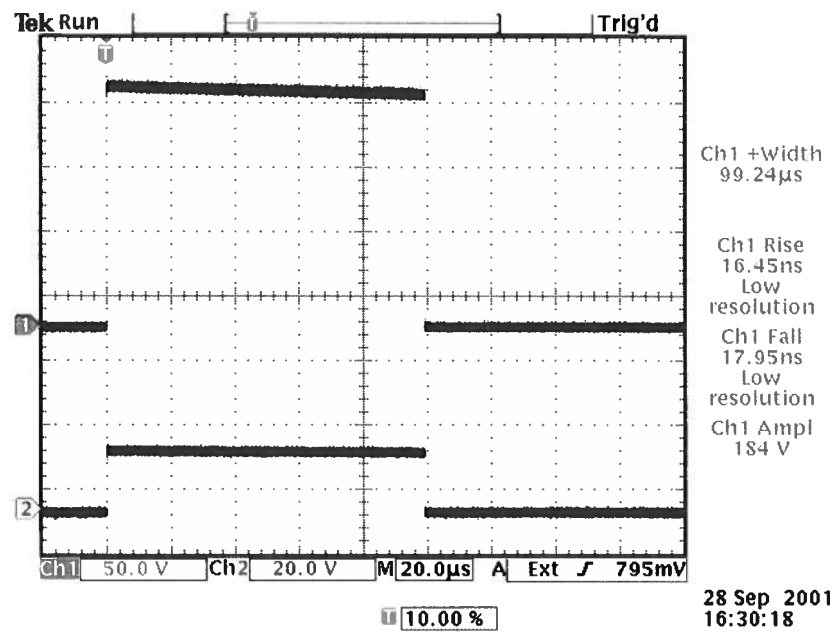
WIDE PULSES
POS OUT.

$R_L = 50\Omega$

PRF = 100 Hz

LOAD V

MONITOR
OUT.



28 Sep 2001
16:30:18

⑤

9964

WIDE PULSE

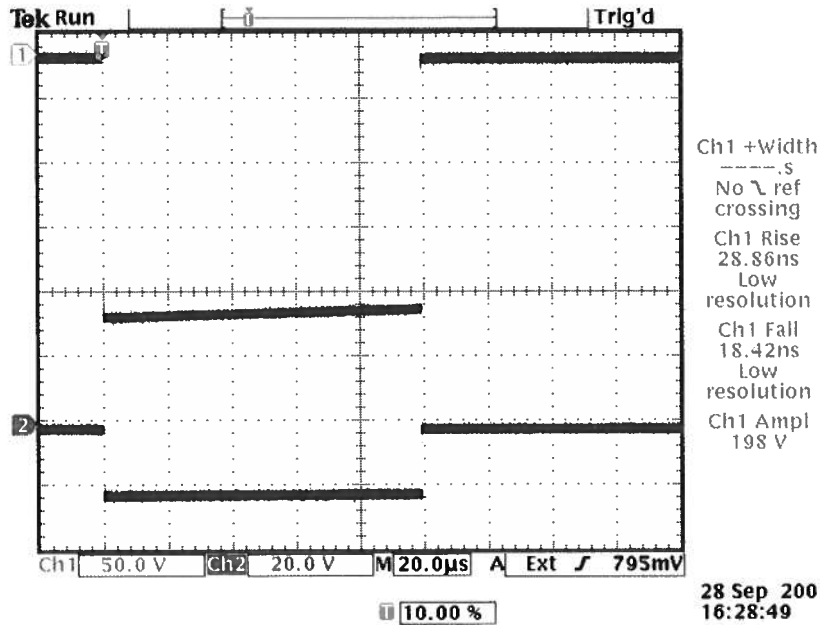
NEG OUT

$R_L = 50 \Omega$

PRF = 100 Hz.

LOAD V

MONITOR
OUT.





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"-B" Functional Test & Calibration Certificate

Date of test:	October 1, 2001				Tester:	MJC
Programmed model name:	AVR-3-B-QPA-M-PN					
Programmed serial number:	9964					
Firmware revision:	2.27					
Internal trigger checked at:	1 Hz	10 Hz	100 Hz	1 kHz	10 kHz	
Actual measured output ¹ :	0.997 Hz	9.93 Hz	99.5 Hz	0.995 kHz	9.97 kHz	
External trigger checked:	yes	Gate checked:			yes	
Manual trigger checked:	yes					
Pulse compression checked:	yes	Low Amplitude PW Distortion Nullled:			N/A	
Pulse width checked at:	100 ns	1 us	10 us	100 us	100 Hz, +200V to 50 Ohms	
Actual measured output ² :	99.9 ns	1.005 us	10.00 us	100.3 us		
PWin = PWout mode checked:	yes	DC mode checked:			N/A	
Duty Cycle Limit:	2%					
Delay nullled:	yes					
Delay checked at:	100 ns	1 us	10 us	100 us	100 Hz, +200V to 50 Ohms	
Actual measured output ¹ :	99.8 ns	0.997 us	9.988 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:	-20V	+50V	-100V	+200V	100 Hz, 10 us to 50 Ohms	
Actual measured output ² :	-19.9V	+49.8V	-99.6V	+200.0V		
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 nullled:		
LCD Monitor calibrated:	N/A			Monitor offset nullled:		
Offset checked at:	N/A					
Actual measured output ² :	N/A					
Offset nullled (output on):	N/A			Amplitude-dependent offset nullled:		
Offset nullled (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:	4k		
DC fuses:	Positive:	1.5A	Negative:	N/A		
AC Current at 115 VAC:	Quiescent:	0.49A	Max. Load:	0.82A		
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.