PULSE GENERATOR

PERFORMANCE CHECK

Model: AR-BA-B-PN-GA-R5

S.N.: 9671

Date: MAR 6 2001

a) Output signal amplitude:
0 TO ± 1000 VOLTS
($R_L \geq 50\Omega$)

b) Pulse width:
0.2 TO 200 uS
(2.2% MAX DUTY CYCLE)

c) Rise time:
≤ 100 NS
(20 - 80%)

d) Fall time:
≤ 100 NS

e) PRF:
0 TO 1 KHZ
0.2% MAX DUTY CYCLE

f) Jitter, stability:
OK

g) Prime power:
120/240 V
50 - 60 HZ

(A)

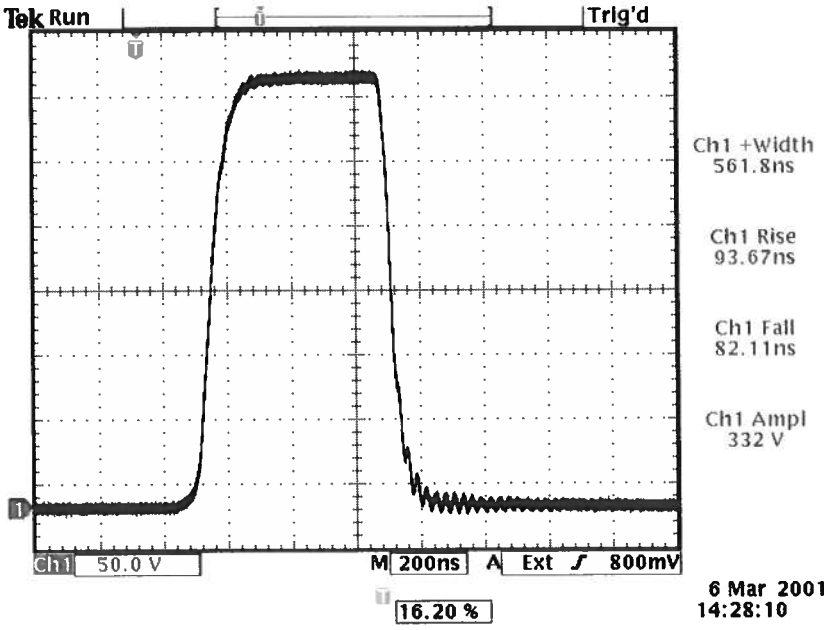
9671

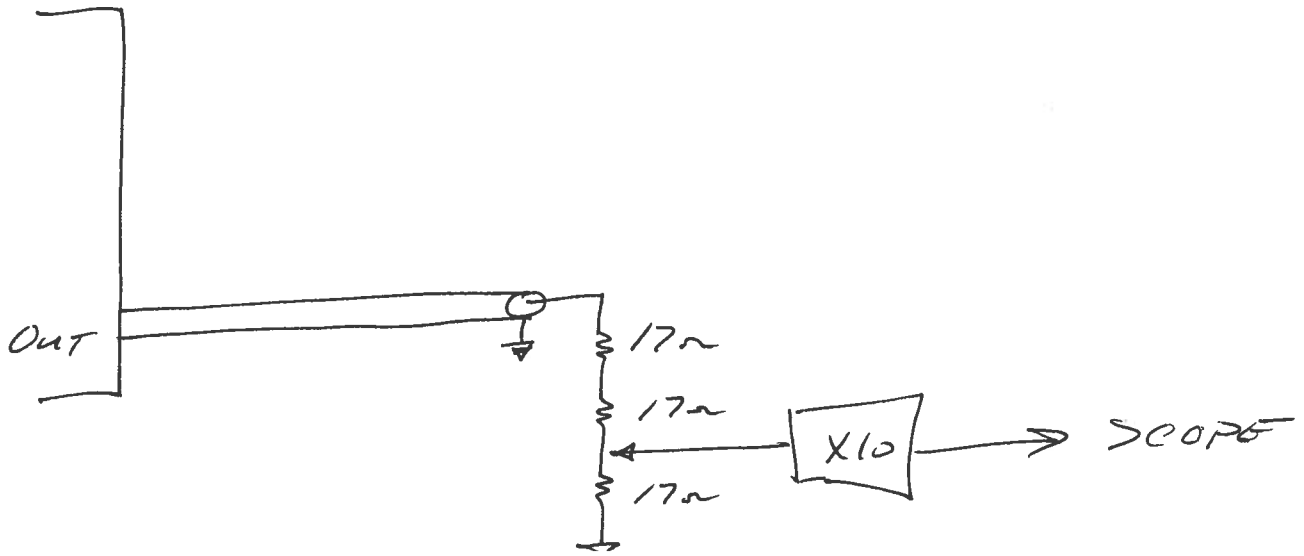
Pout.

NARROW PW

$R_L = 50\Omega$

PRF ≈ 1 KHZ





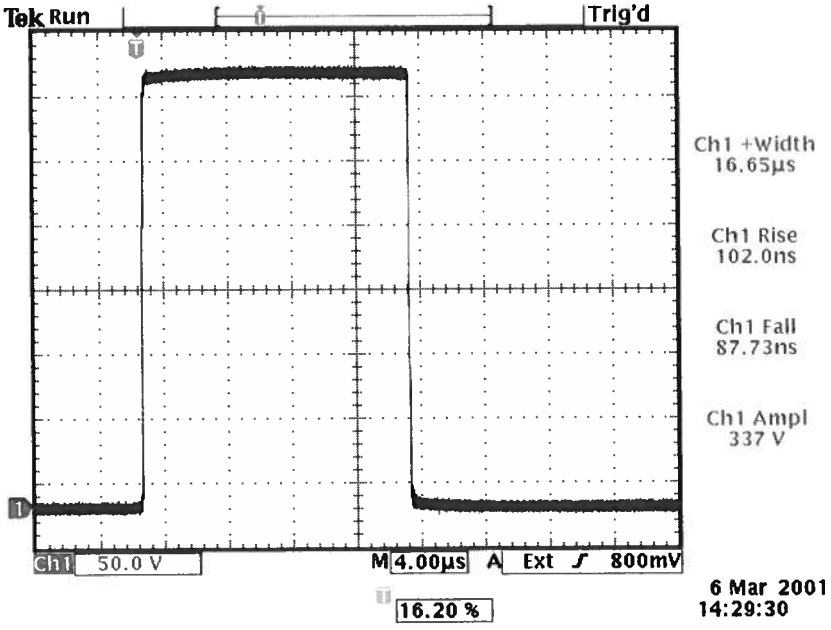
(B) 9671

Pout

MEDIUM PW

R_L = 50Ω

PRF = 100 Hz



SEE (A) FOR LOAD CONNECTION.

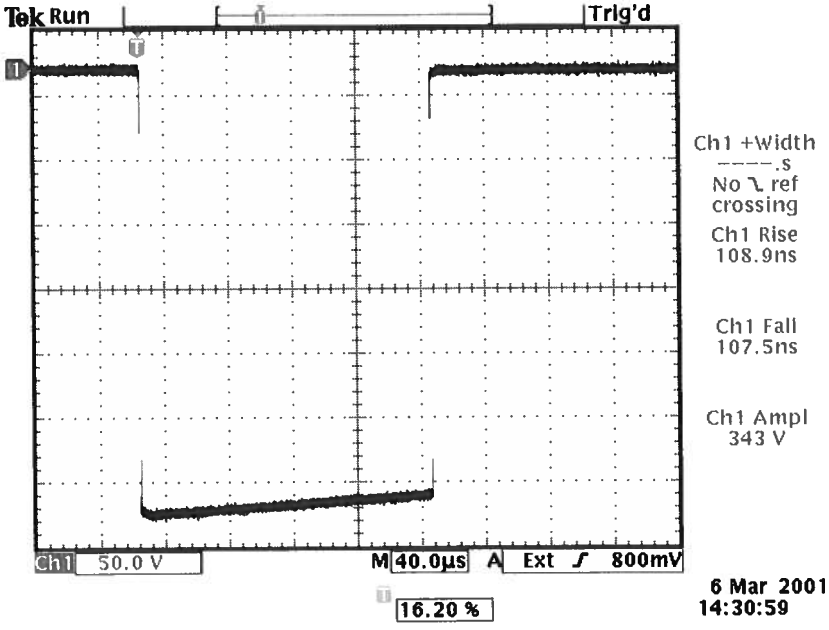
(C) 9671

NOUT

WIDE PW

R_L = 50Ω.

PRF ≈ 10Hz



SEE (A) FOR LOAD CONNECTION.

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"-B" Functional Test & Calibration Certificate

Date of test:	March 6, 2001			Tester:	MJC
Programmed model name:	AVR-8A-B-EA-PN-R5				
Programmed serial number:	9671				
Firmware revision:	2.22				
Internal trigger checked at:	1 Hz	10 Hz	100 Hz	1 kHz	
Actual measured output[1]:	1.006 Hz	10.06 Hz	100.4 Hz	1.001 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:	200 ns	2 us	20 us	200 us	1 Hz, +1kV, to 50 Ohms
Actual measured output[2]:	200.2 ns	2.00 us	20.1 us	201.1 us	
PWin = PWout mode checked:	yes			DC mode checked:	N/A
Duty Cycle Limit:	0.2%				
Delay nulled:	yes				
Delay checked at:	200 ns	2 us	20 us	200 us	5 Hz, +1kV, to 50 Ohms
Actual measured output[1]:	198.1 ns	2.01 us	20.1 us	201.1 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:	-100V	+200V	-500V	+1000V	1 Hz, 2 us, to 50 Ohms
Actual measured output[2]:	-102V	+200.4V	-507V	+1008V	
Amplitude polarity:	+/-				
Zout calibration:	N/A				
Electronic amplitude control:	OK				
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:	2k	
DC fuses:	Positive:	2.5A	Negative:	N/A	
AC Current at 115 VAC:	Quiescent:	0.45A	Max. Load:	1.3A	
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.