PULSE GENERATOR

PERFORMANCE CHECK

Model: AVR-7B-B-P

S.N.: 9301

Date: MAY 5 2000

a) Output signal amplitude:
0 TO +300 VOLTS (RL ≥ 50Ω)

b) Pulse width:
0.1 TO 100 uS (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)

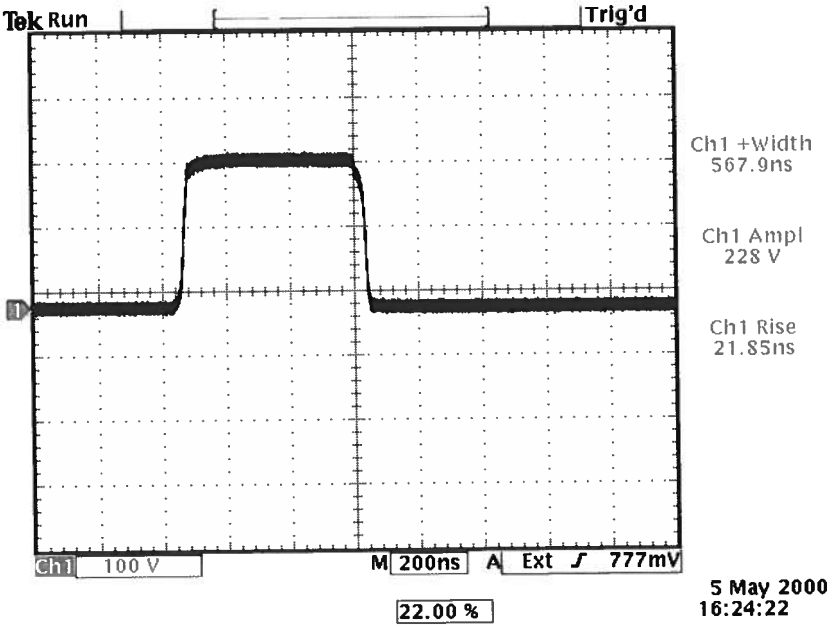
f) Jitter, stability: OK

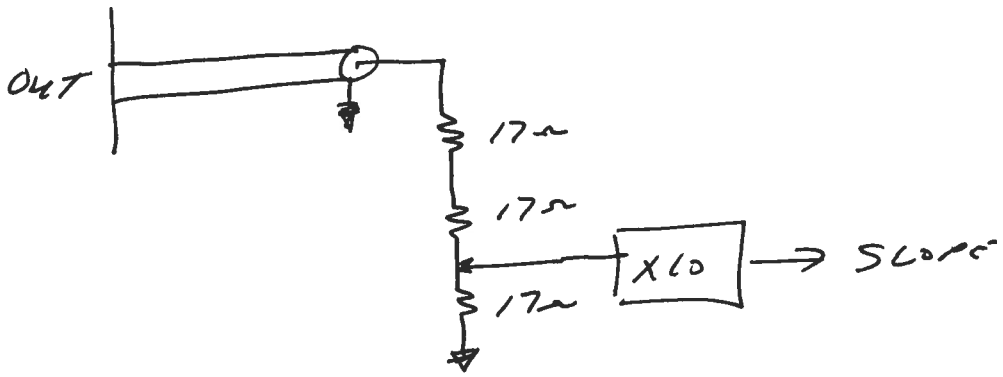
g) Prime power: 120/240 V
50-60 Hz.

9301

narrow pulse

$R_L = 50\,\Omega$

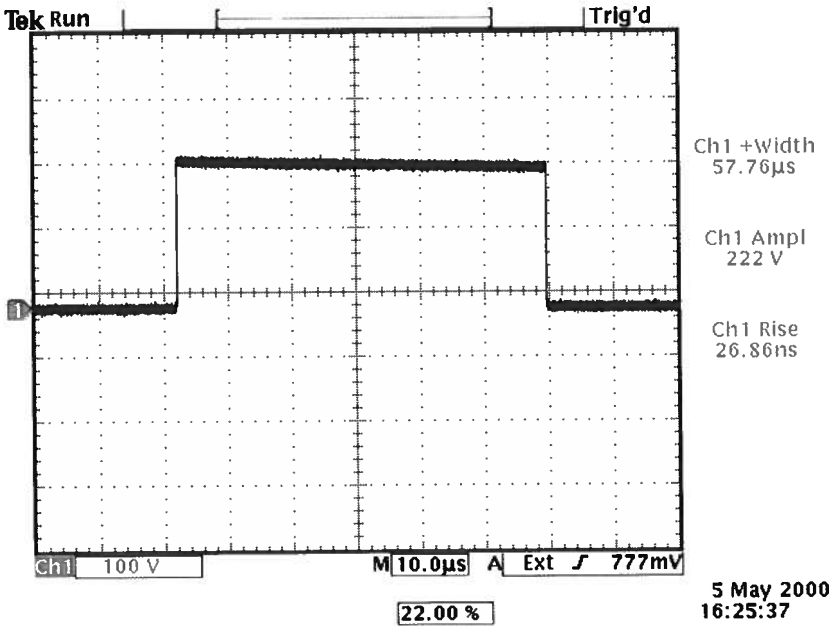


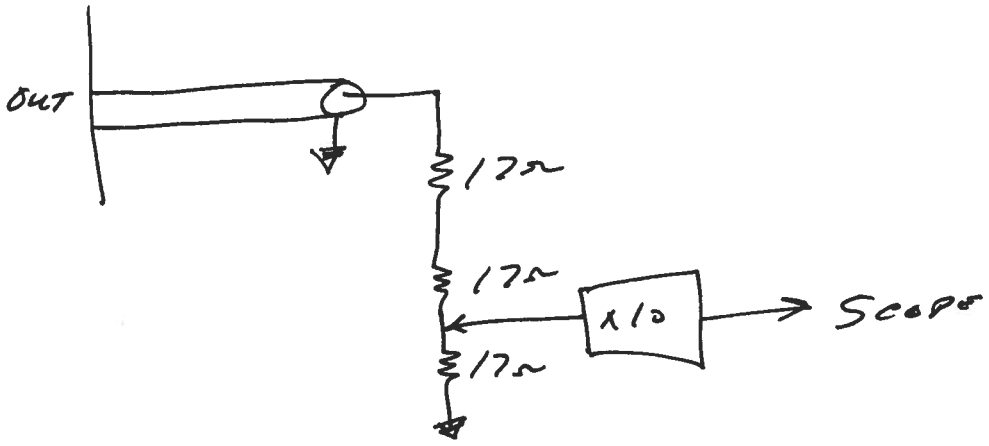


9301

WIDE PULSE

$R_L = 50\Omega$





AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS
SINCE 1975

P.O. BOX 265
OGDENSBURG, NY
U.S.A. 13669-0265
TEL: (315) 472-5270
FAX: (613) 226-2802

TEL: 1-800-265-6681
FAX: 1-800-561-1970

e-mail: info@avtechpulse.com
http://www.avtechpulse.com

[X] P.O. BOX 5120 STN. F
OTTAWA, ONTARIO
CANADA K2C 3H4
TEL: (613) 226-5772
FAX: (613) 226-2802

"-B" Functional Test & Calibration Certificate

Date of test:	May 5, 2000			Tester:	MJC
Programmed model name:	AVR-7B-B-P				
Programmed serial number:	9301				
Firmware revision:	2.11				
Internal trigger checked at:	1 Hz	100 Hz	1 kHz	10 kHz	
Actual measured output[1]:	1.008 Hz	100.9 Hz	1.006 kHz	10.03 kHz	
External trigger checked:	yes			Gate checked:	yes
Trigger load resistor present:	200 Ohms				
Manual trigger checked:	yes				
Pulse compression checked:	yes				
Pulse width checked at:	100 ns	1 us	10 us	100 us	5 Hz, +700V,
Actual measured output[2]:	102.5 ns	0.988 us	10.0 us	100.5 us	into 50 Ohms
PWin = PWout 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	10 Hz, +700V,
Actual measured output[1]:	100.2 ns	1.001 us	10.07 us	100.4 us	into 50 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:	+100V	+300V	+500V	+700V	10 Hz, 1 us
Actual measured output[2]:	+101.6V	+304V	+507V	+702V	PW, 50 Ohms
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:	
Mon. Single Pulse/Min PW OK:	N/A			SHA Cap:	
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:	50 ns (special modification at customer request - normally 200 ns)				
Circuit Boards:	PS:	93	Main:	86	
Overload Trigger Resistance:	Trips at:	N/A	Installed:	1.5k	
DC fuses:	Positive:	2.5A	Negative:	N/A	
AC Current at 115 VAC:	Quiescent:	0.37A	Max. Load:	1.1A	
AC fuse:	2A				
Photographed:	yes				

[1] Checked with: HP5370A Universal Time Interval Counter

[2] Checked with: Tektronix TDS360 digital oscilloscope for PW ≥ 5 ns,
Tektronix 7704A/7S11/7T11/S4 sampling oscilloscope system for PW < 5 ns.