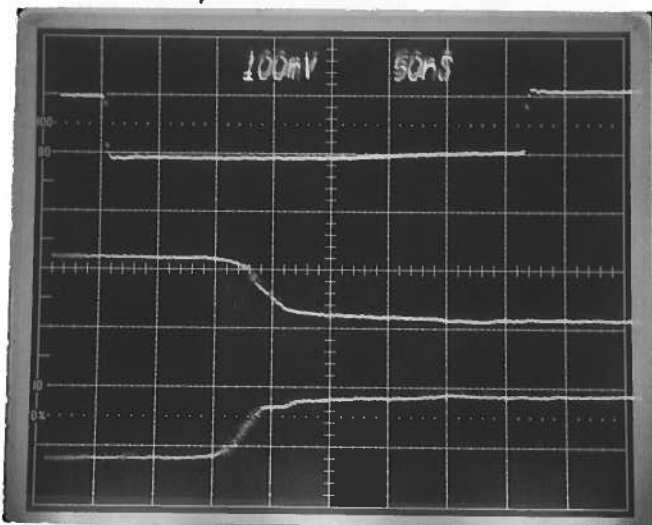


PULSE GENERATOR
PERFORMANCE CHECK

Model: *AVR-E3-W-PN-B-05*

S.N.: *9664*

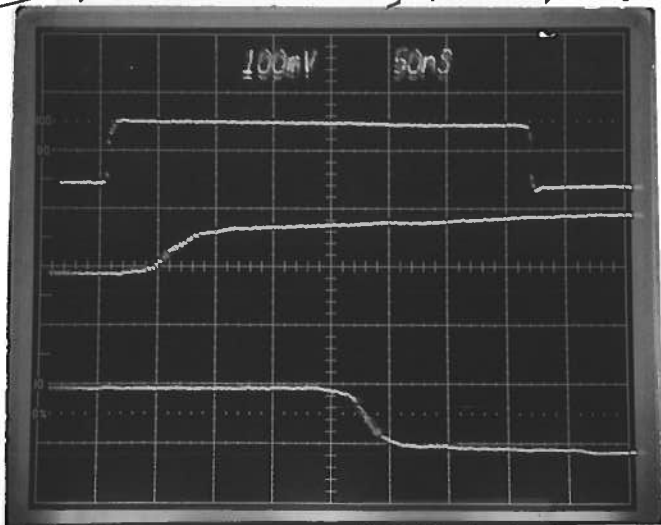
Date: *FEB 28 2001*



- a) Output signal amplitude:
0 TO ± 100 VOLTS (P_{RL} = 50Ω)
- b) Pulse width:
50 NS TO 5.0 μS
- c) Rise time: *(1% MAX DUTY CYCLE)*
≤ 0.5 NS
- d) Fall time:
≤ 1.0 NS
- e) PRF: *0 TO 5 KHz*

Ⓜ NEG OUT 60 dB ATTN
TOP 50NS/DIV, MID LATERAL EDGES 1NS/DIV
BOT FOLLOWING EDGES, 1.0 NS/DIV

(1% MAX DUTY CYCLE)
Jitter, stability:
OK



- g) Prime power:

120/240V
50-60Hz
[Signature]

Ⓜ POS OUT 60 dB ATTN
TOP 50NS/DIV, MID LATERAL EDGES, 1.0 NS/DIV
BOT FOLLOWING EDGES, 1.0 NS/DIV

Ⓟ

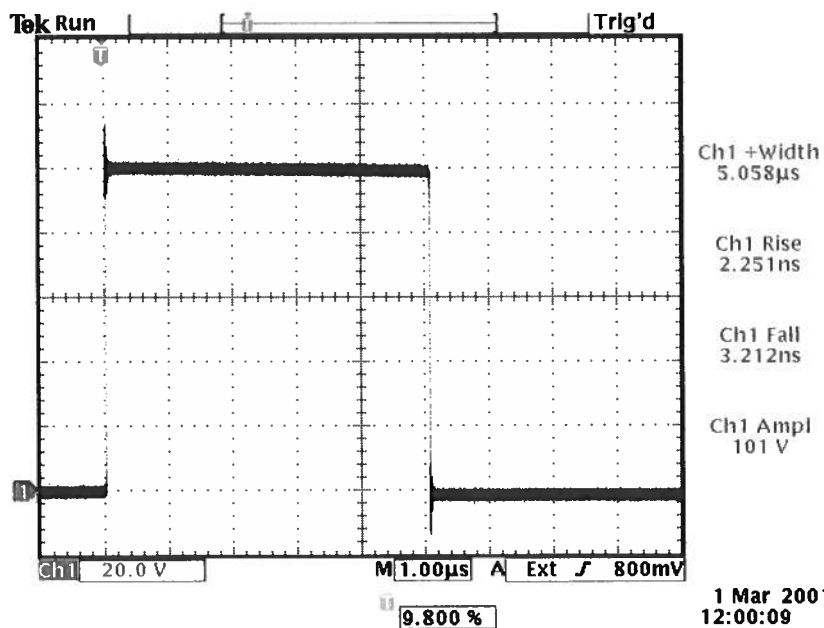
9664

POS OUT

WIDE PULSE

$R_L = 50 \Omega$

TEK TDS 3032



ⓑ

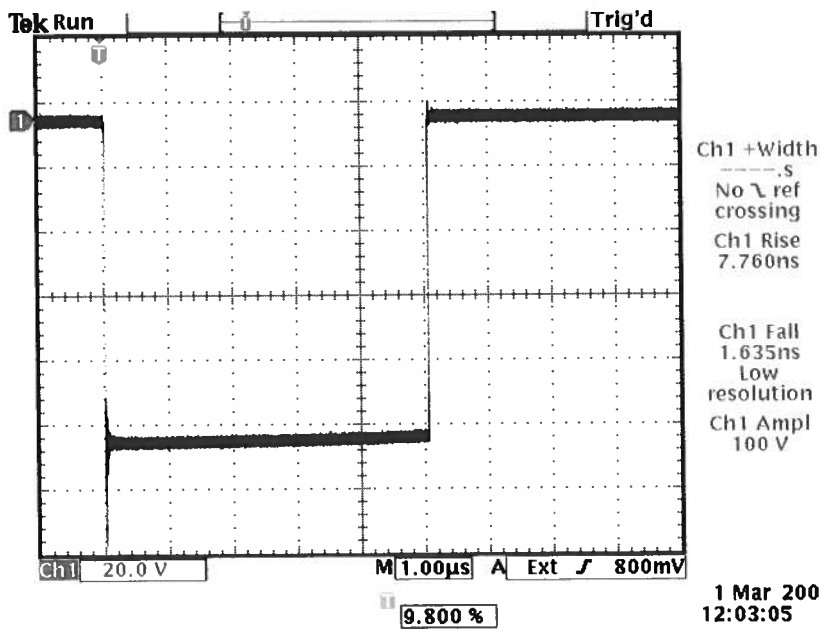
9664

NEG OUT

WIDE PULSE

$R_L = 50\Omega$

TEK TDS 3032





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

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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:	March 1, 2001				Tester:	MJC	
Programmed model name:	AVR-E3-B-PN-OS-W						
Programmed serial number:	9664						
Firmware revision:	2.22						
Internal trigger checked at:	5 Hz	50 Hz	500 Hz	5 kHz			
Actual measured output ¹ :	4.98 Hz	49.8 Hz	498 Hz	4.99 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:	100 ns	500 ns	1 us	5 us	100Hz, +100V, to 50 Ohms		
Actual measured output ² :	102 ns	506 ns	0.998 us	5.05 us			
PWin = PWout mode checked:	N/A	DC mode checked:				N/A	
Duty Cycle Limit:	1%						
Delay nulled:	yes						
Delay checked at:	100 ns	500 ns	1 us	5 us	100Hz, +100V, to 50 Ohms		
Actual measured output ¹ :	102 ns	507 ns	0.999 us	5.05 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:	-30V	+30V	-100V	+100V	100Hz, 500ns, to 50 Ohms		
Actual measured output ² :	-30.1V	+30.1V	-99.2V	+100.0V			
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 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:	6.2+7.5k			
DC fuses:	Positive:	N/A	Negative:	N/A			
AC Current at 115 VAC:	Quiescent:	0.58A	Max. Load:	0.66A			
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.