

Double balanced demodulator  
circuit - AD532

Holosound 1987

used also for Book of Moves I  
(MT Multitrax board version)  
1992



HF40

printje voor montage in  
messing □-profiel  
& met 5p.-dri plug voor  
print-montage.

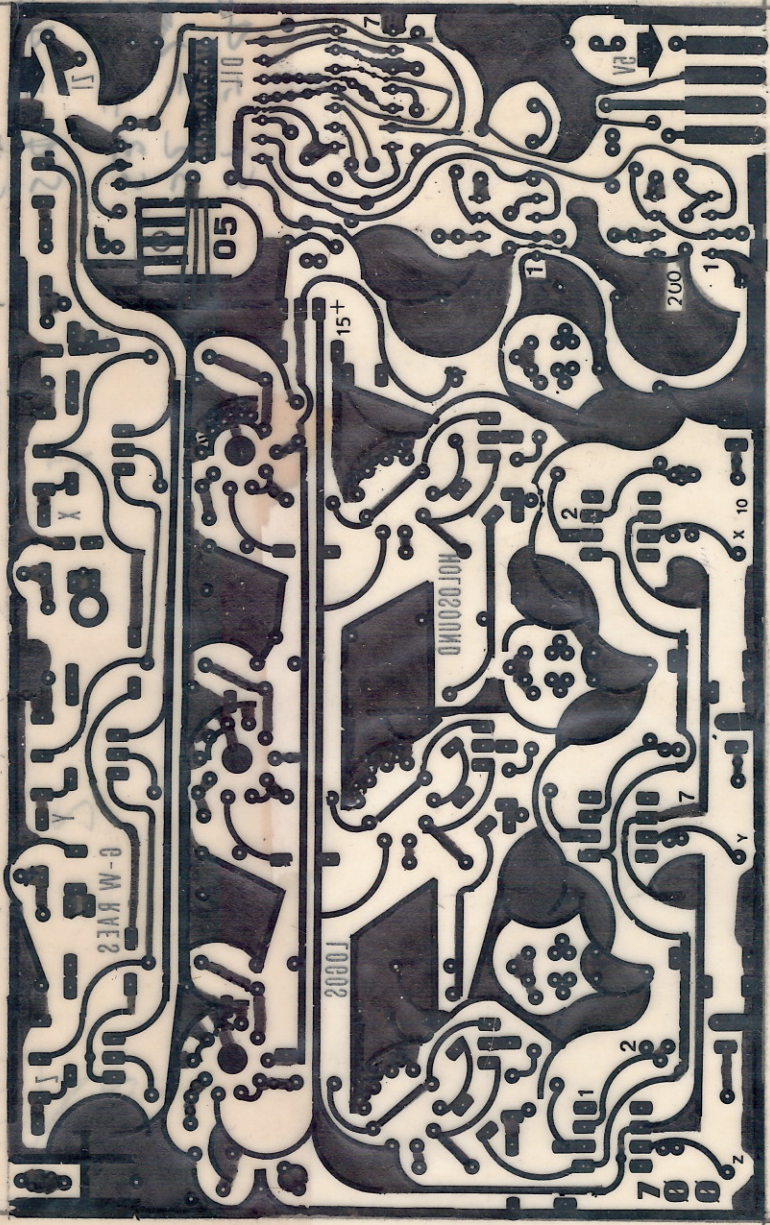
Ultrason ontvouwen.

3 x gemaakt.

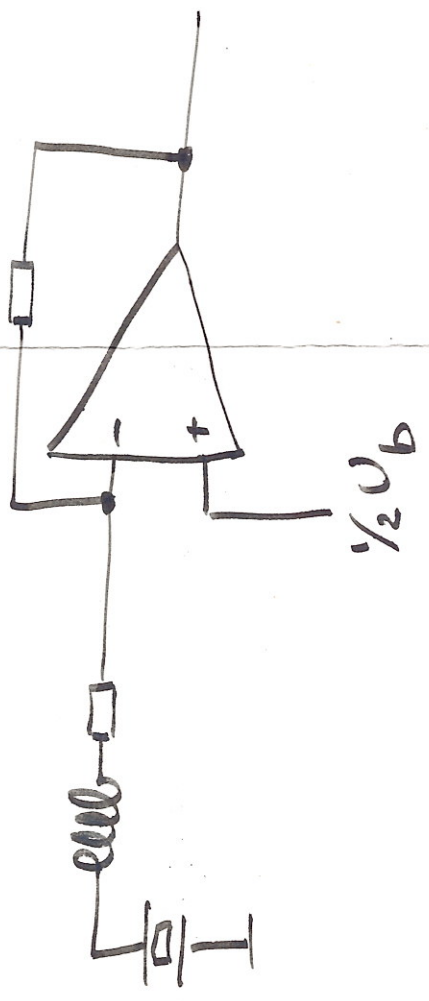
paper aqawomukken.  
Dose four-  
10000

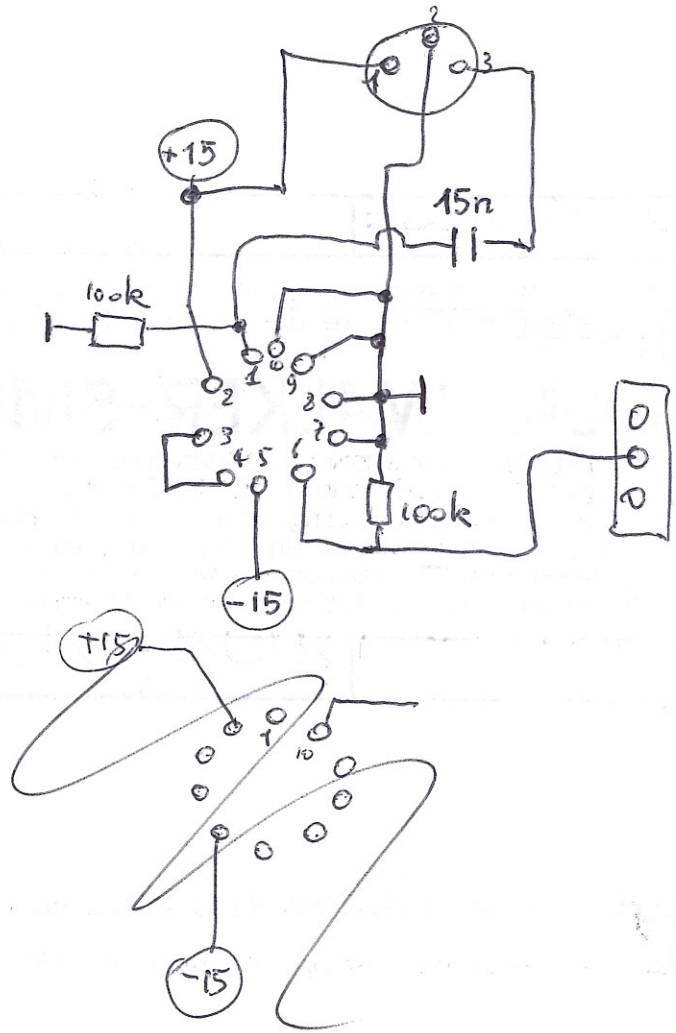
(4)

1x3 + 005 + 01 = 52  
1x5 + 005 = 52  
1x3 + 01 + 005 = 52



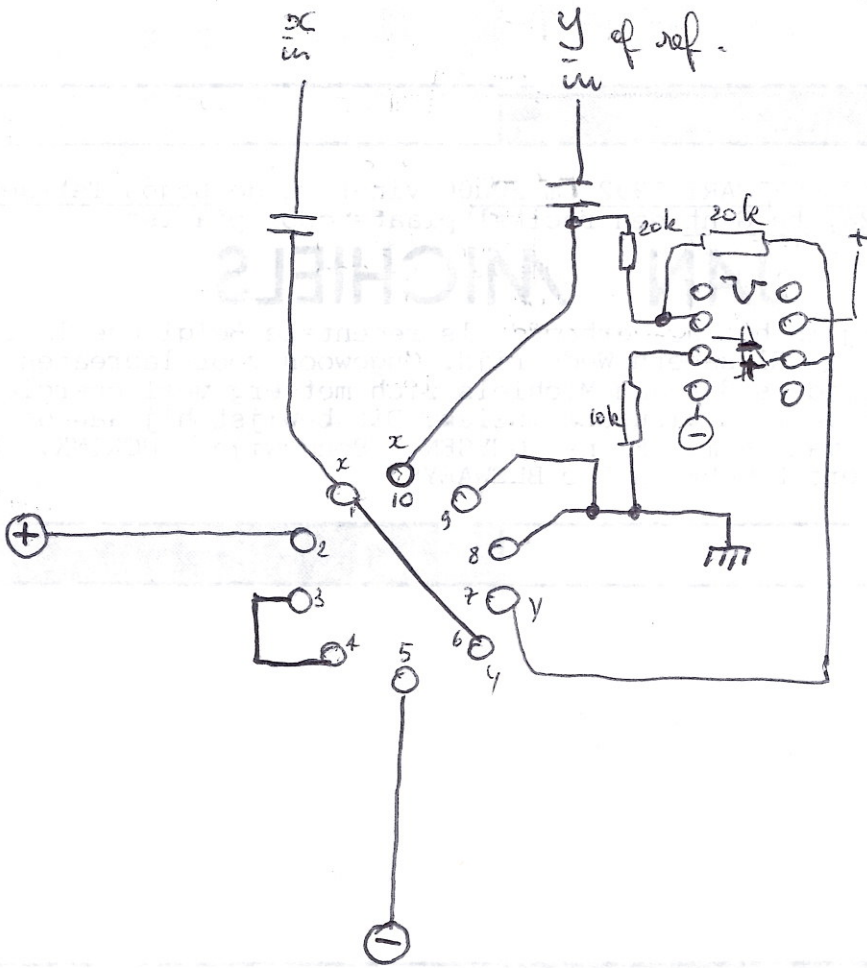
74  
132

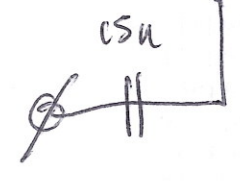
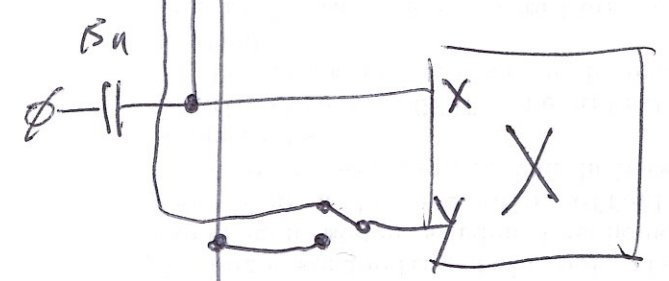
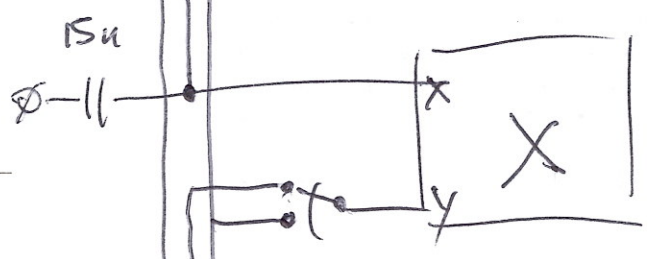
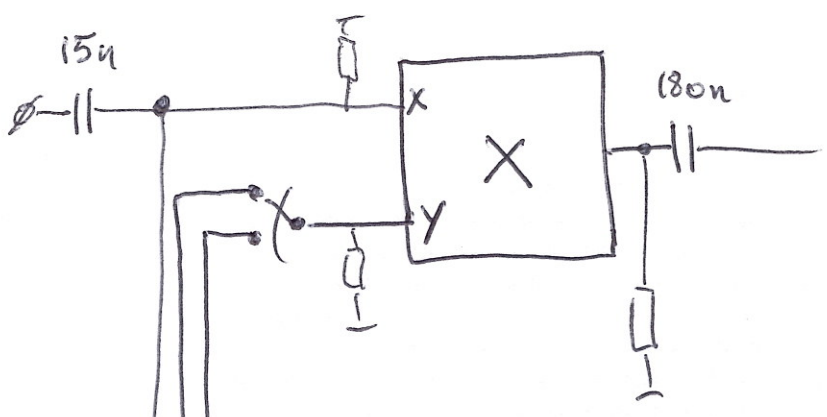




Handwritten text at the bottom of the page, possibly a signature or date, is mostly illegible due to fading and blurring.

$$V_{out} = \left( \frac{x^2 - y^2}{10} \right)$$





This circuit to be used with

HF40 A

HF40 B

HF40 C or HF40 D

receivers and

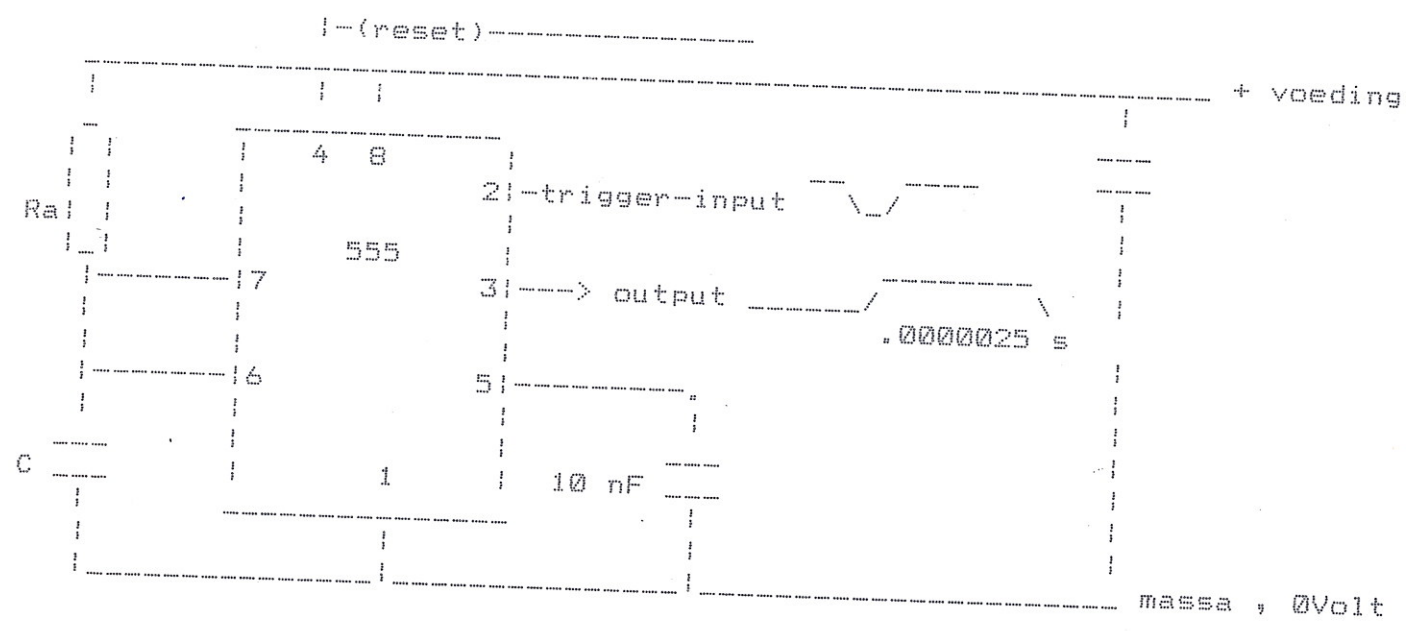
Z40-6 (high power!)

or Z40-2

or EXT 200/40-1



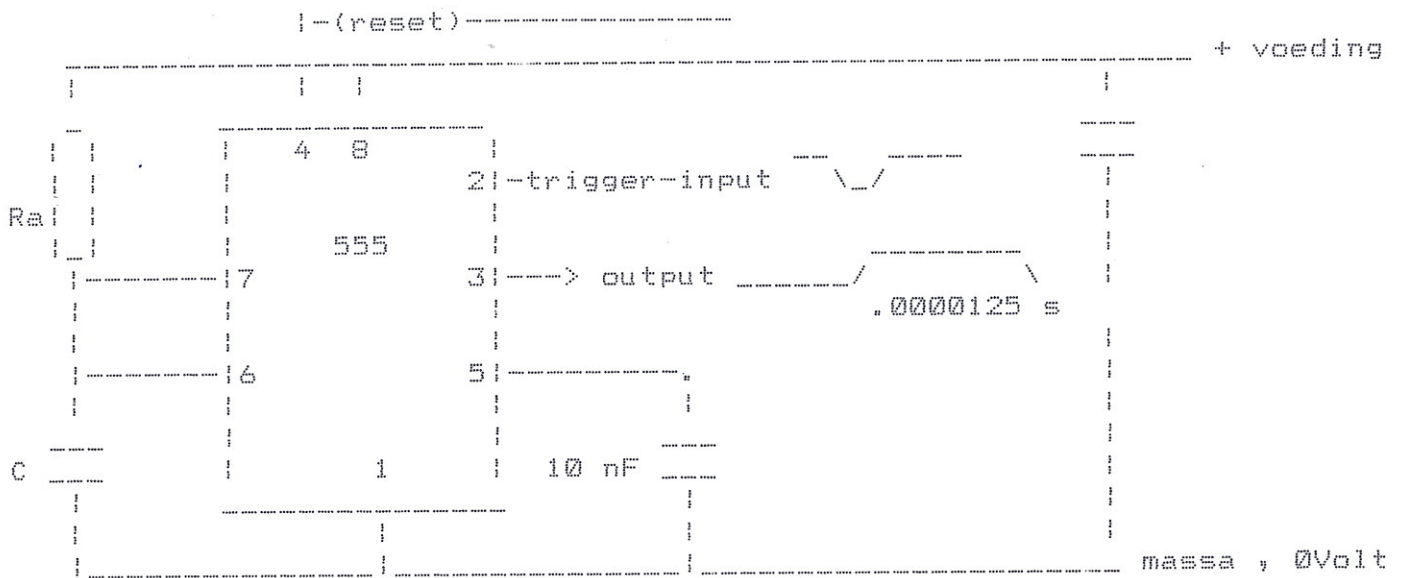
Monostabiele schakeling voor one-shot  
 \*\*\*\*\*



$C = 9.999999E-11$      $R_a = 22727.27$  precies voor  $.0000025 \text{ s}$   
 $R_a = 22000$  Ohm afgeronde waarde    Preciese tijd =  $2.42E-06 \text{ sec}$

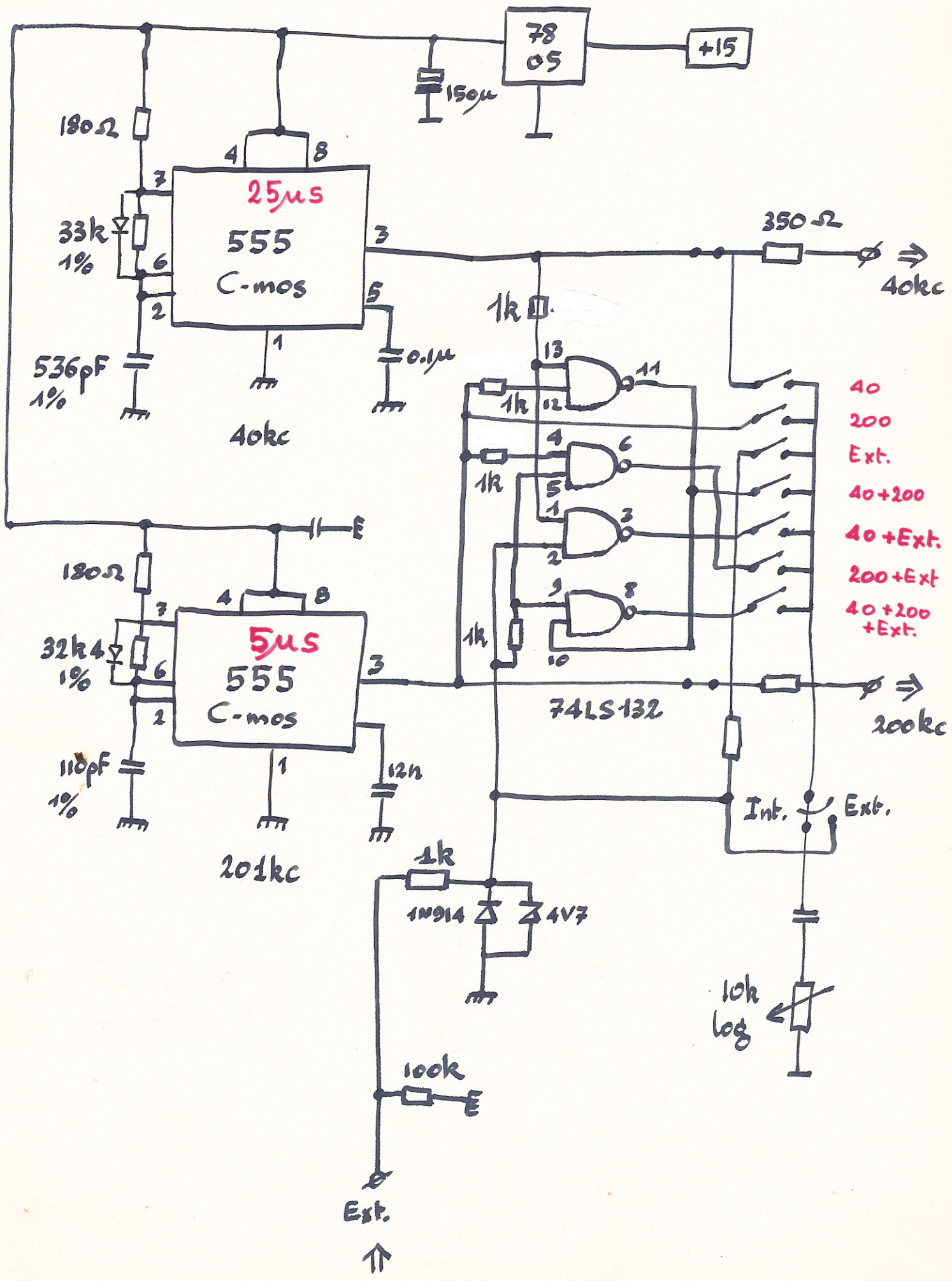
Deze schakeling wordt getriggerd met een neergaande flank vanuit een 200kHz puls-oscillator met externe sync

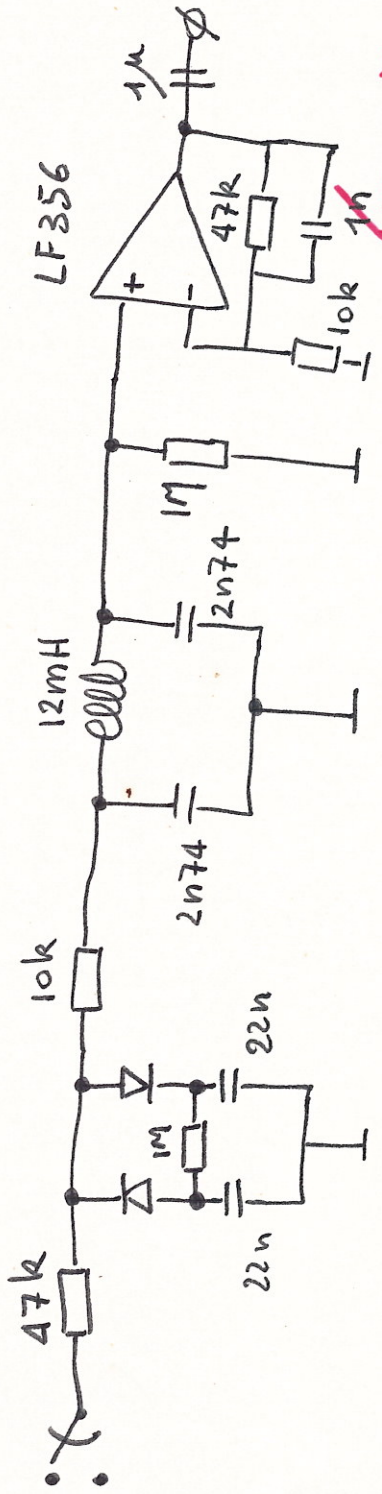
Monostabiele schakeling voor one-shot  
 \*\*\*\*\*



C= 4.7E-10 Ra= 24177.95 precies voor .0000125 s  
 Ra= 22000 Ohm afgeronde waarde Preciese tijd= 1.1374E-05 sec

Deze schakeling wordt getriggerd door 40kHz pulsen



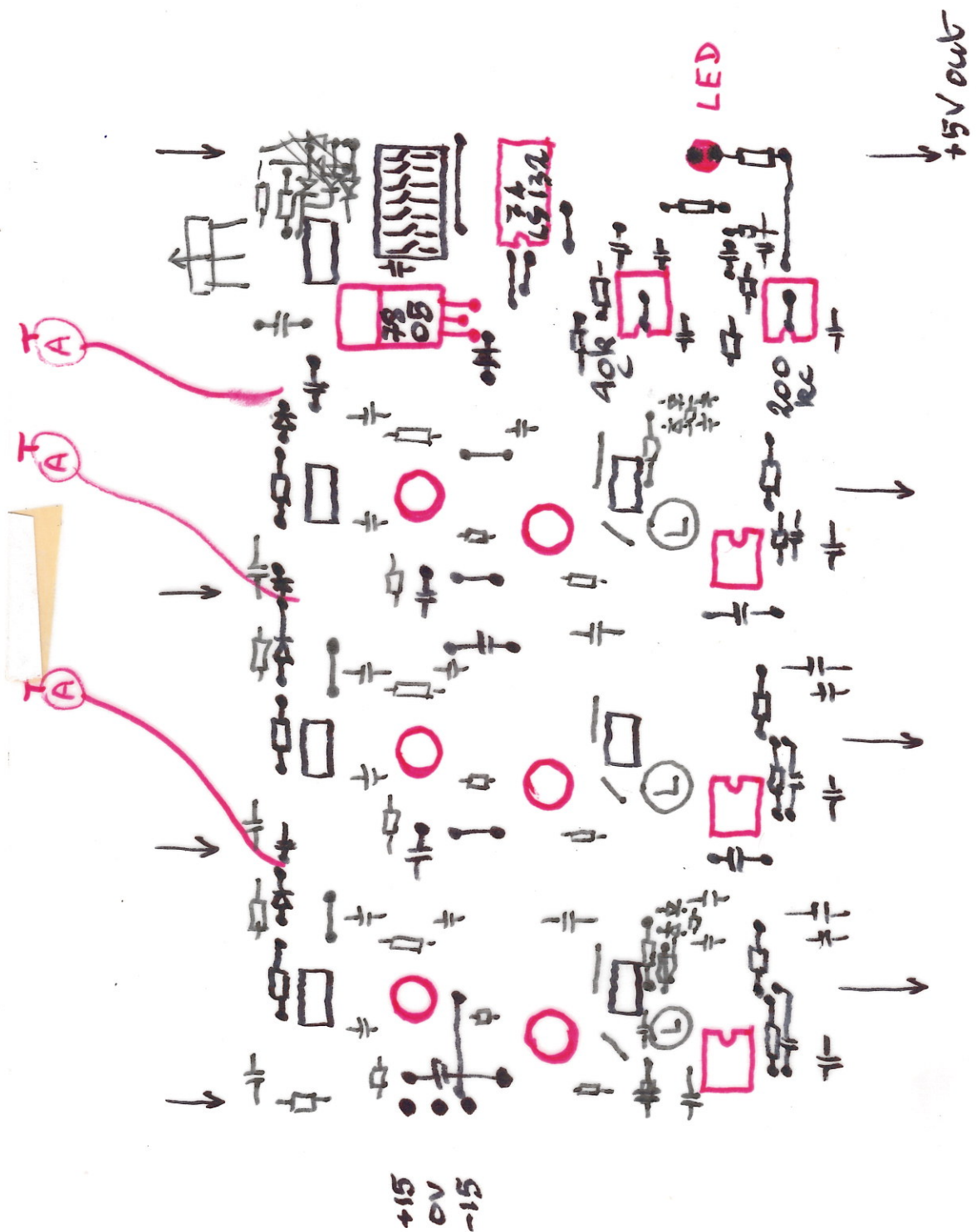


330pF

low-pass  
19.6kHz

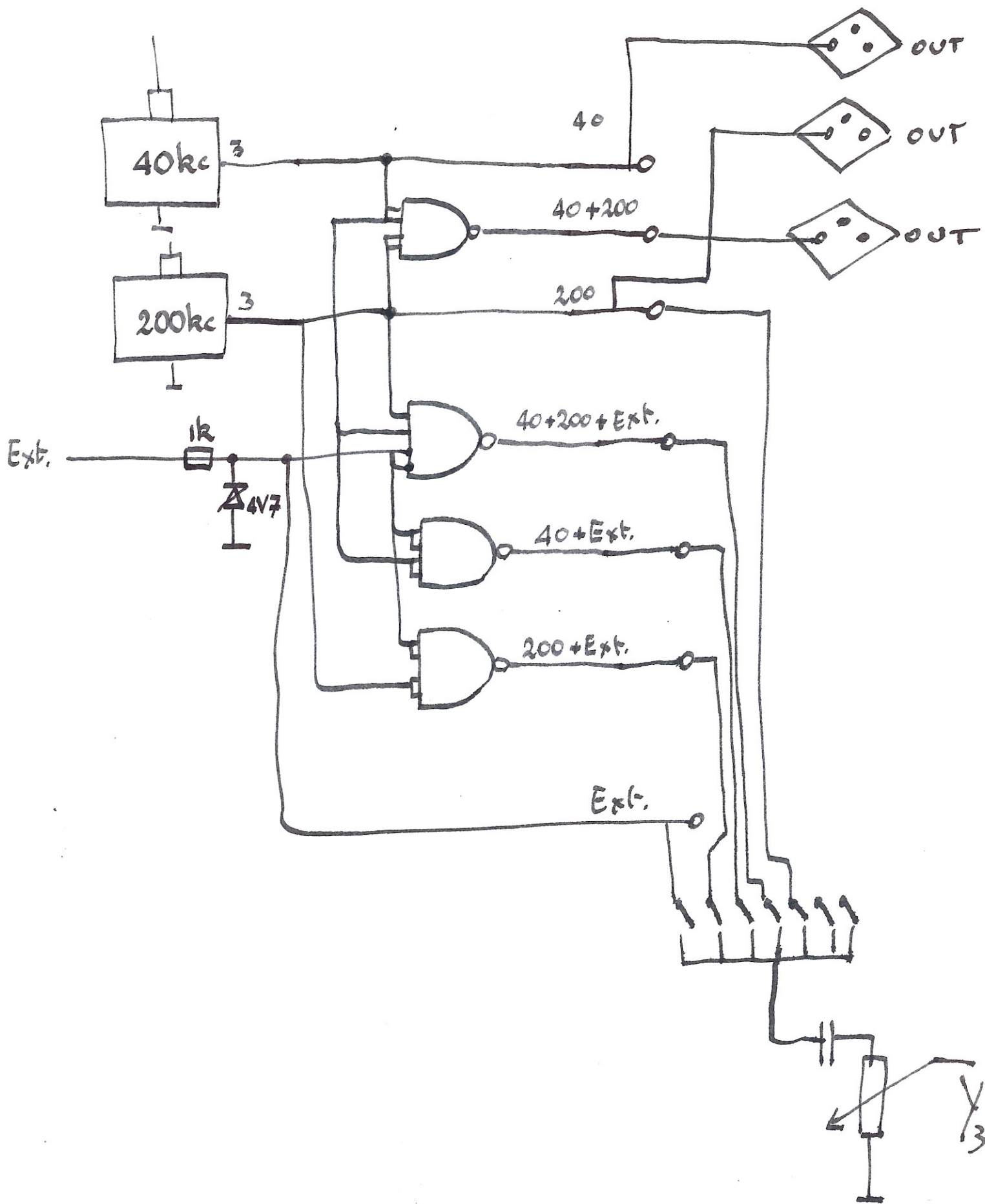
Compressor

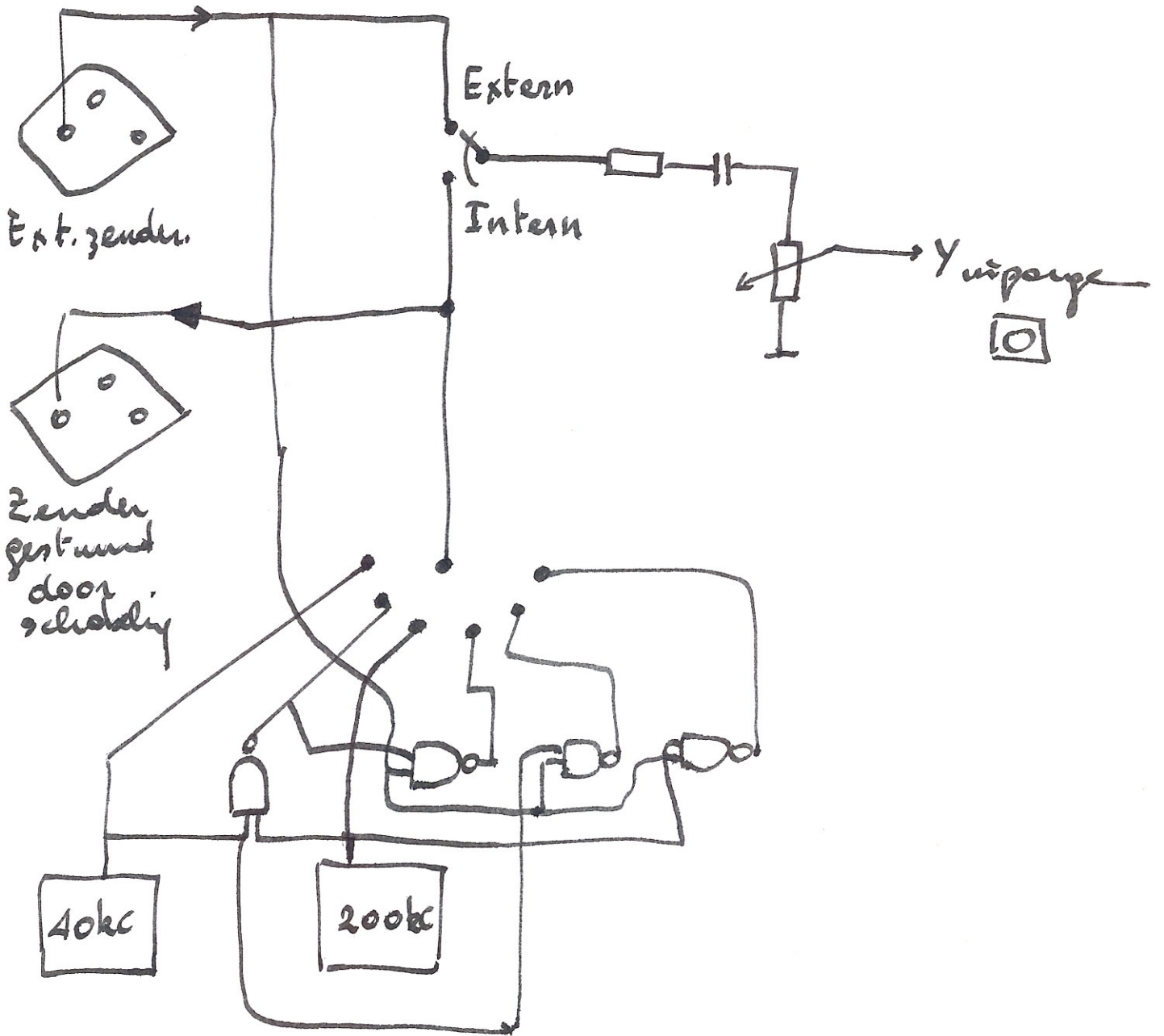
Sic.  
29/9/87  
C.

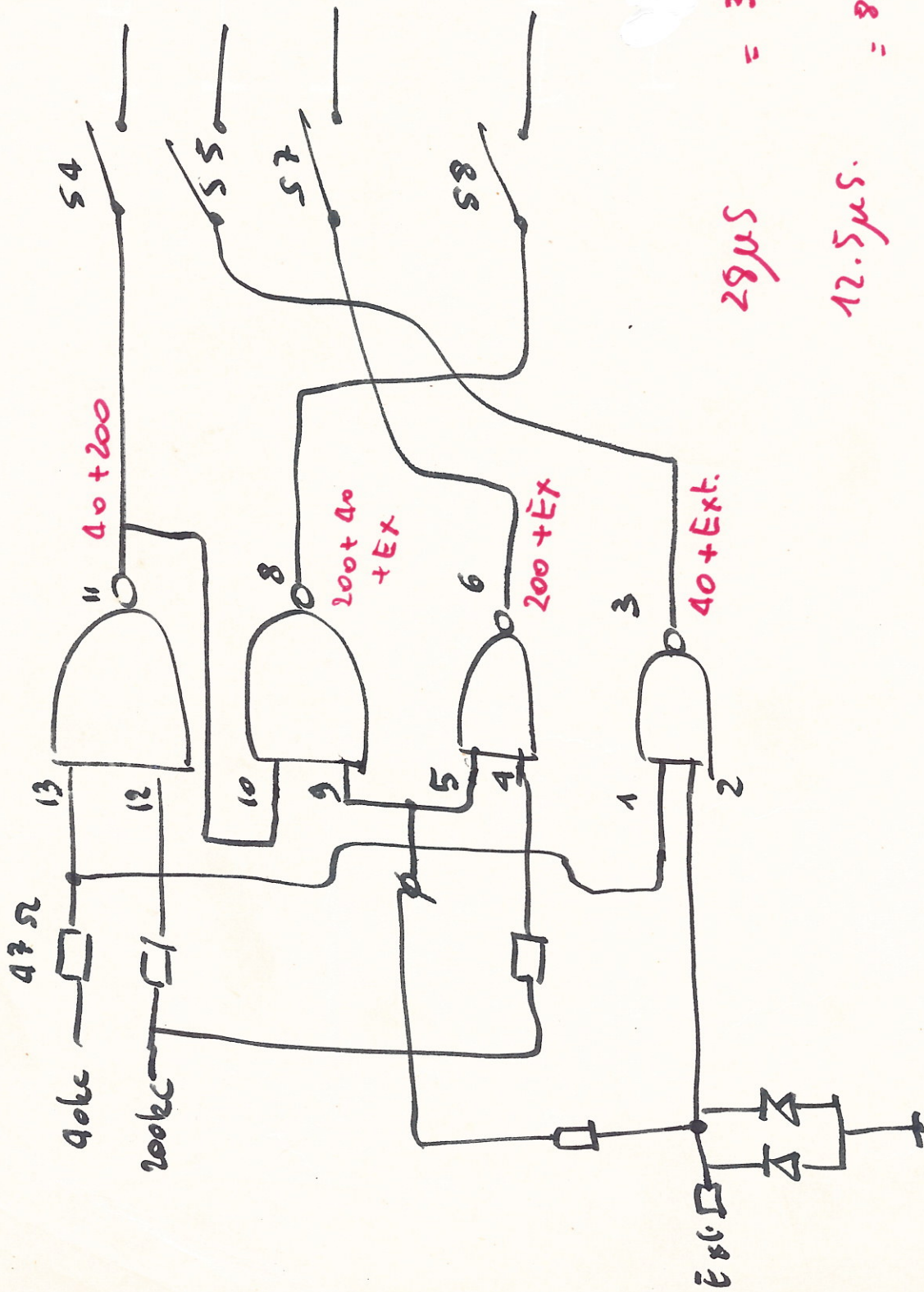


+5V out

+15  
0V  
-15





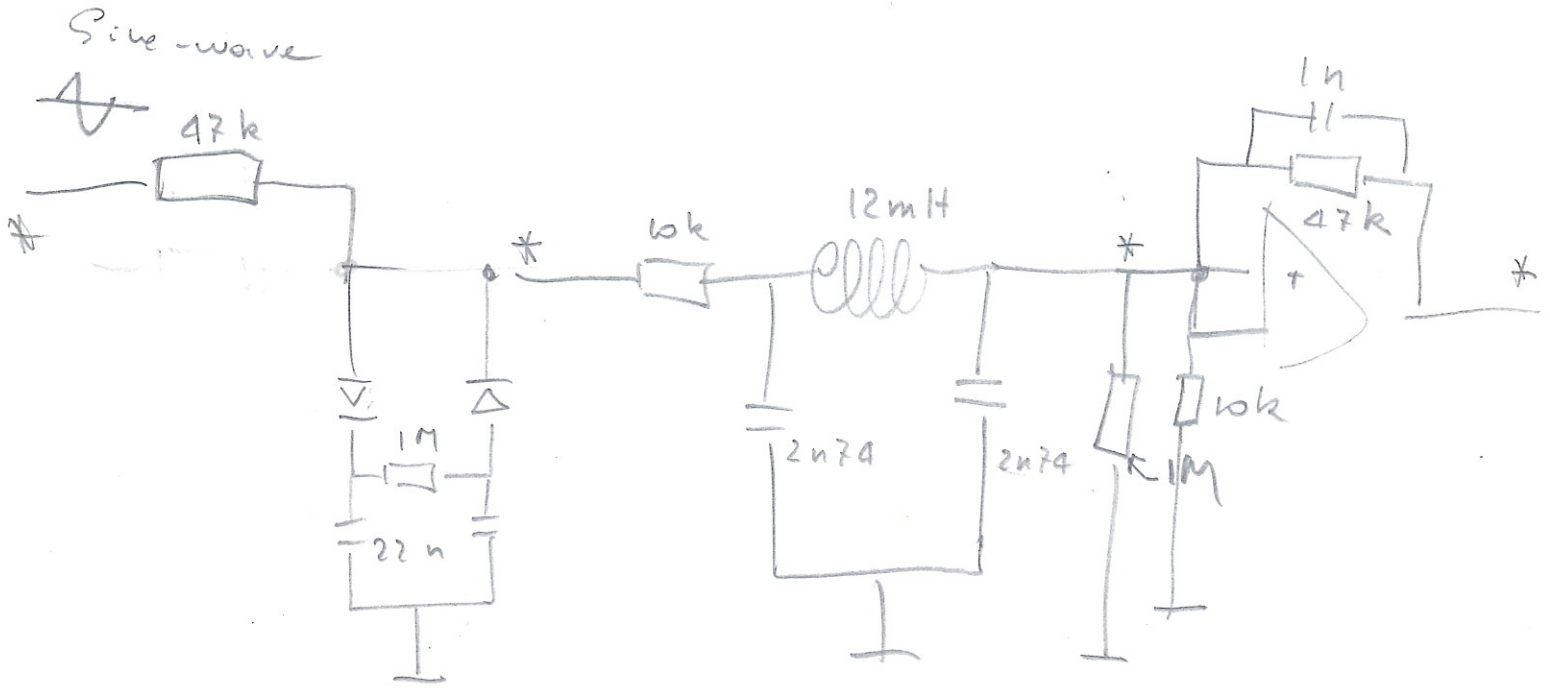


$$28\mu s = 35.714 \text{ kc}$$

$$12.5\mu s = 80 \text{ kc.}$$



$$U_i = 4V_{tt}$$



10ms - 4V <sub>tt</sub>	2,4V <sub>tt</sub>	2V <sub>tt</sub>	10V <sub>tt</sub>
1ms "	2V <sub>tt</sub>	1,4V <sub>tt</sub>	6,8V
0,5ms "	1V <sub>tt</sub>	0,8V <sub>tt</sub>	4V <sub>tt</sub>
0,2ms	600mV <sub>tt</sub>	360mV	1,2V
0,1ms	540mV	200mV	400mV
80μs	500mV	180mV	300mV

20μCO

A

B

Out

100 Hz / 4V<sub>tt</sub>

(2.4V<sub>tt</sub>)  
+1,6 dB

+3 dB

+3,5 dB  
6V

1000 Hz / 4V<sub>tt</sub>  
0 dB

~~+6 dB~~  
0 dB (2V<sub>tt</sub>)

0 dB  
1,4V

0 dB  
6,8V

2000 Hz

-6 dB

-5 dB

-4,6 dB

5 kc

-10 dB

-12 dB

-15 dB

10 kc

-12 dB

-17 dB

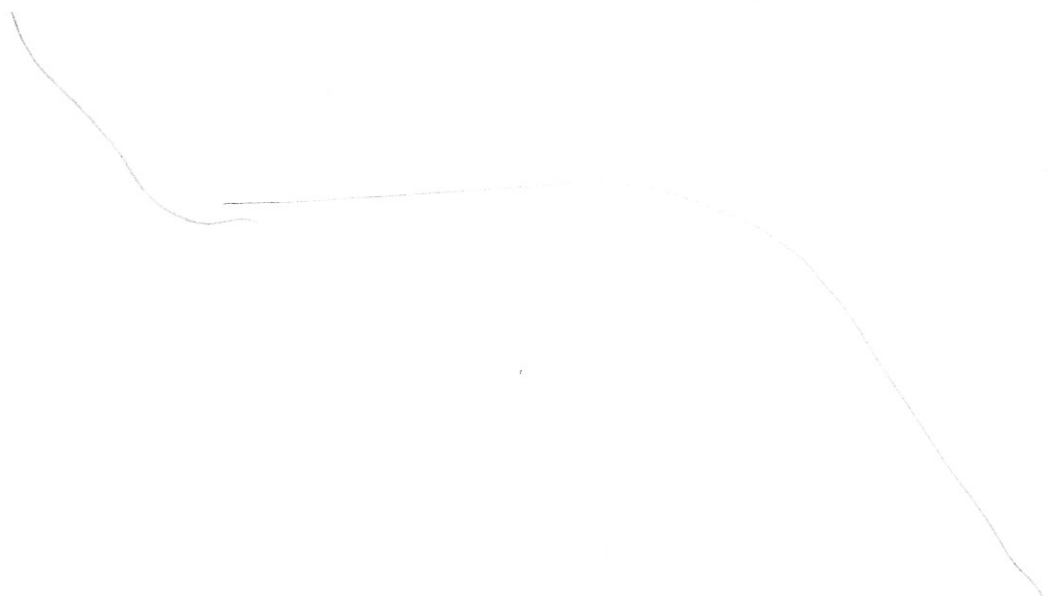
-24 dB

11,1 kc

-12 dB

-18 dB

-27 dB



$$V_i = 500 mV_{lt}$$

10ms / 0,5V

250mV

250mV

1,5V

2ms

250mV

250mV

1,4V

1ms

200mV

200mV

1,2V

0,5ms

150mV

130mV

0,5V

0,2ms

100mV

60mV

175mV

0,1ms

100mV

<sup>3</sup>(4)0mV

60mV

80μs

100mV

30mV

50mV

# 500mV It input

$f_{in}$	A	B	Out
100 Hz	+2dB	+2dB	+2dB
500 Hz	+2dB	+2dB	+1,4 dB
1000 Hz	0dB	0dB	0dB (x5)
2000 Hz	-2,5dB	-3,8dB	-7,6dB
5000 Hz	-6dB	-10dB	-17dB
10kc	-6dB	-15dB	-26dB
11,1kc	-6dB	-16dB	-27,6dB