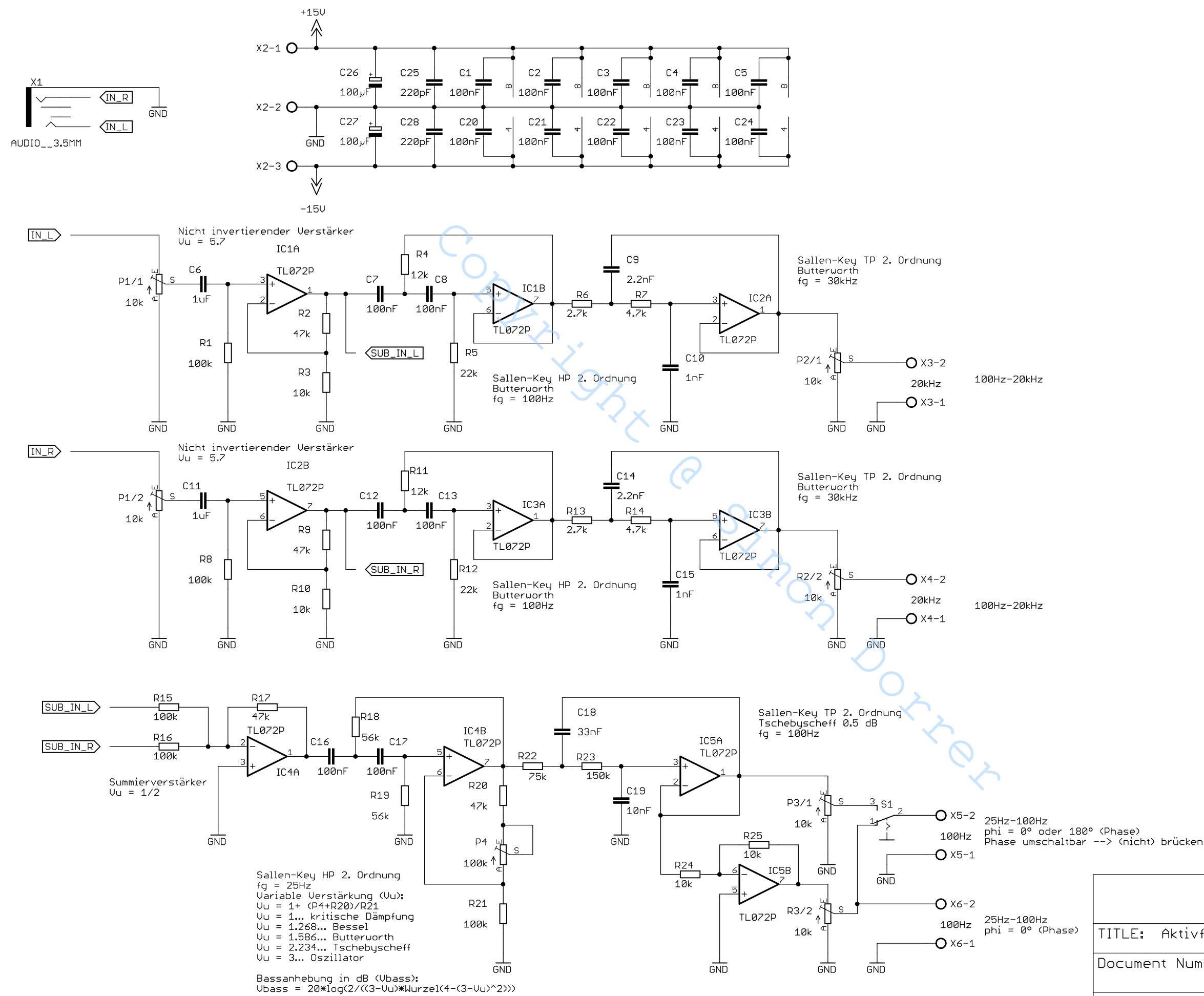


6/01/2019 15:04:29 E:\HTL-Leonding\5AHELL\ALlaborarbeit\Aktivfilter\Aktivfilter.sch (Sheet: 1/1)



Sallen-Key HP 2. Ordnung
fg = 25Hz
Variable Verstärkung (Uu):
Uu = 1+ (P4+R20)/R21
Uu = 1... kritische Dämpfung
Uu = 1.268... Bessel
Uu = 1.586... Butterworth
Uu = 2.234... Tschebyscheff
Uu = 3... Oszillator

Bassanhebung in dB (U_{bass}):
U_{bass} = 20*log(2/((3-U_u)*Wurzel(4-(3-U_u)^2)))

TITLE: Aktivfilter	
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Date: 26/01/2019 14:57:14	Sheet: 1/1

Parts List for

E:/HTL- Leonding/5AHEL/LA/Laborarbeit/Aktivfilter/Aktivfilter.brd

Parts Listing

Part	Value	Package	Library
C1	100nF	C025-025X050	rc1
C2	100nF	C025-025X050	rc1
C3	100nF	C025-025X050	rc1
C4	100nF	C025-025X050	rc1
C5	100nF	C025-025X050	rc1
C6	1uF	C025-025X050	resistor
C7	100nF	C025-025X050	resistor
C8	100nF	C025-025X050	resistor
C9	2.2nF	C025-025X050	resistor
C10	1nF	C025-025X050	resistor
C11	1uF	C025-025X050	resistor
C12	100nF	C025-025X050	resistor
C13	100nF	C025-025X050	resistor
C14	2.2nF	C025-025X050	resistor
C15	1nF	C025-025X050	resistor
C16	100nF	C050-025X075	rc1
C17	100nF	C025-025X050	rc1
C18	33nF	C025-025X050	rc1
C19	10nF	C025-025X050	rc1
C20	100nF	C025-025X050	rc1
C21	100nF	C025-025X050	rc1
C22	100nF	C025-025X050	rc1
C23	100nF	C025-025X050	rc1
C24	100nF	C025-025X050	rc1
C25	220pF	C025-025X050	rc1
C26	100μF	E2,5-6	rc1
C27	100μF	E2,5-6	rc1
C28	220pF	C025-025X050	rc1
IC1	TL072P	DIL08	linear
IC2	TL072P	DIL08	linear
IC3	TL072P	DIL08	linear
IC4	TL072P	DIL08	linear
IC5	TL072P	DIL08	linear
P1/1	10k	B64Y	pot
P1/2	10k	B64Y	pot
P2/1	10k	B64Y	pot
P3/1	10k	B64Y	pot
P4	100k	B64Y	pot
R1	100k	0207/10	resistor
R2	47k	0207/10	resistor

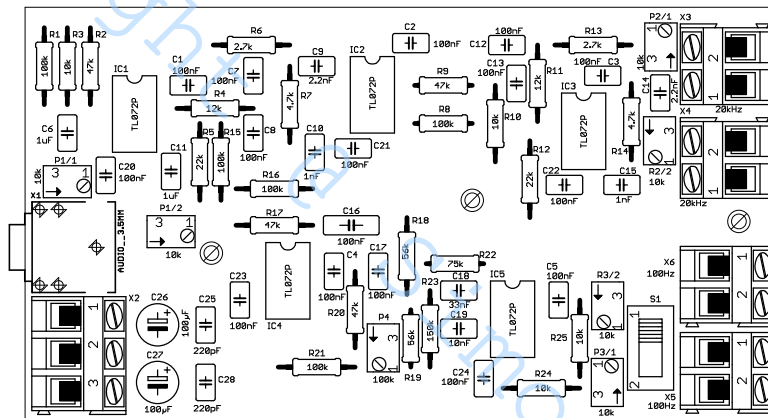
R2/2	10k	B64Y	pot
R3	10k	0207/10	resistor
R3/2	10k	B64Y	pot
R4	12k	0207/10	resistor
R5	22k	0207/10	resistor
R6	2.7k	0207/10	resistor
R7	4.7k	0207/10	resistor
R8	100k	0207/7	rcl
R9	47k	0207/7	rcl
R10	10k	0207/10	resistor
R11	12k	0207/10	resistor
R12	22k	0207/10	resistor
R13	2.7k	0207/10	resistor
R14	4.7k	0207/10	resistor
R15	100k	0207/10	rcl
R16	100k	0207/10	rcl
R17	47k	0207/10	rcl
R18	56k	0207/10	rcl
R19	56k	0207/7	rcl
R20	47k	0207/10	rcl
R21	100k	0207/10	rcl
R22	75k	0207/7	rcl
R23	150k	0207/10	rcl
R24	10k	0207/10	rcl
R25	10k	0207/10	rcl
S1		255SB	switch
X1	AUDIO_3.5MM	AUDIO-JACK	SparkFun-Connectors
X2		AK300/3	con-ptr500
X3	20kHz	AK300/2	con-ptr500
X4	20kHz	AK300/2	con-ptr500
X5	100Hz	AK300/2	con-ptr500
X6	100Hz	AK300/2	con-ptr500

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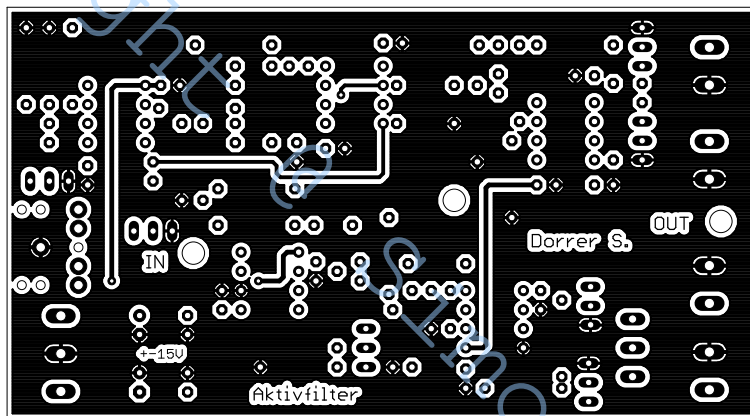
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