

LN3 Low-Noise 50 Ohm Vorverstärker

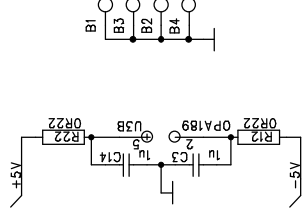
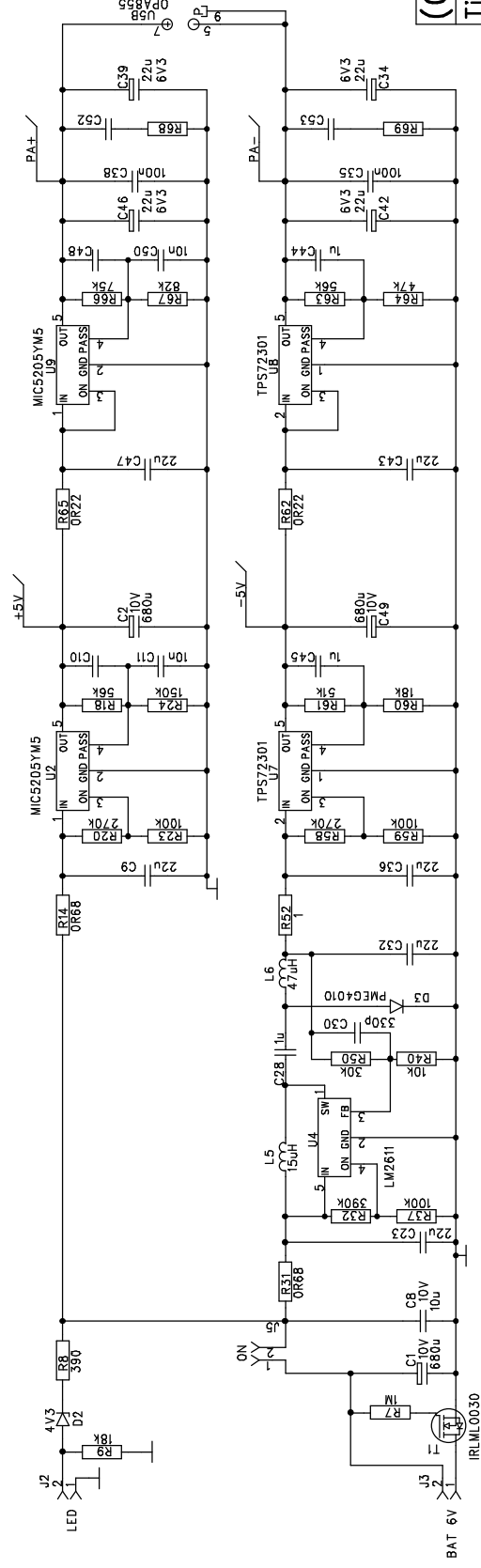
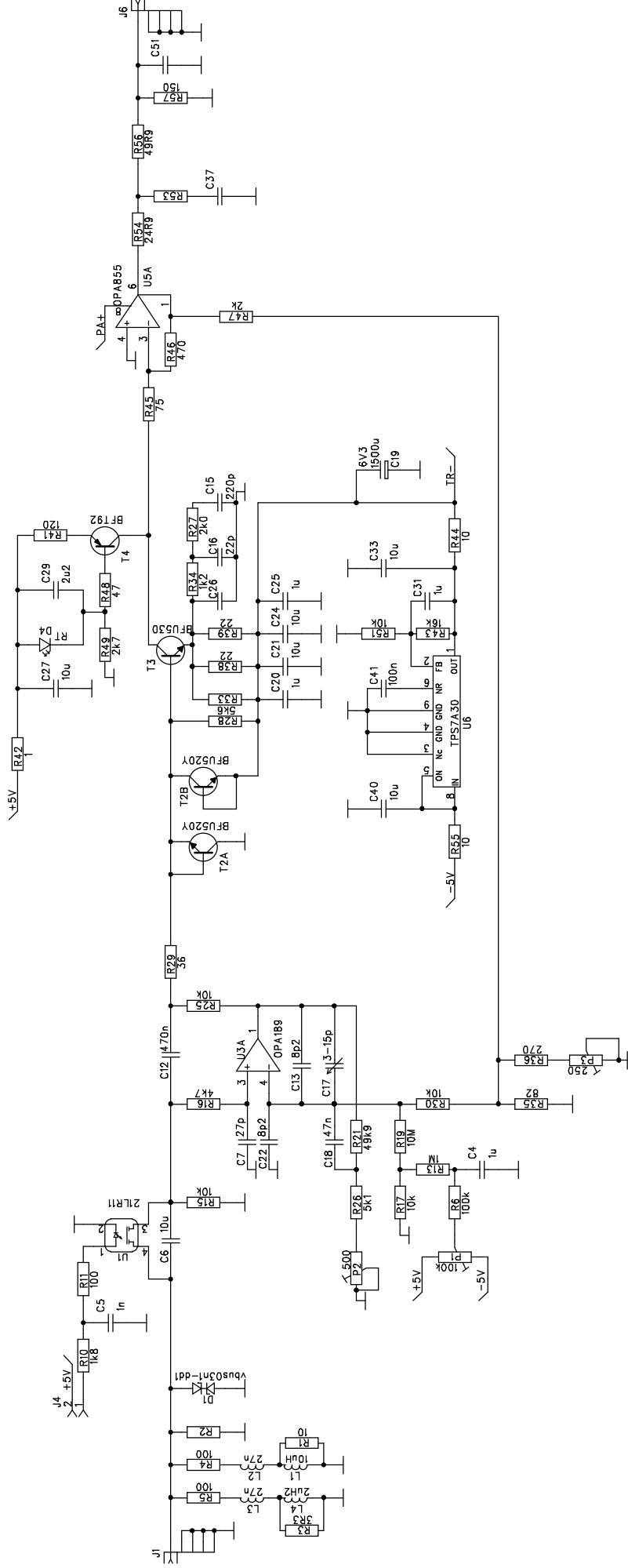
Rev 1.00: Schaltplan, Bestückung, Material Liste

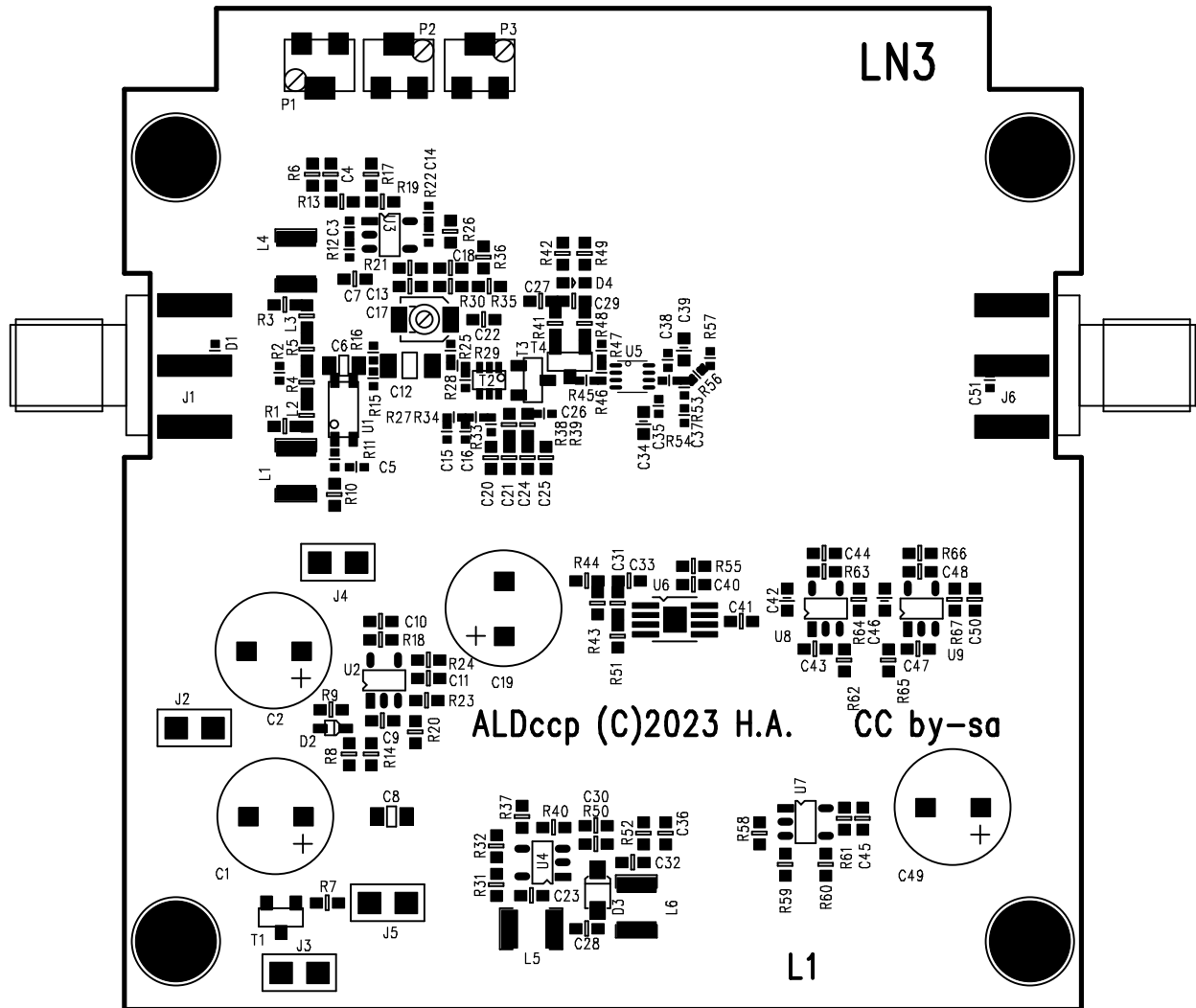


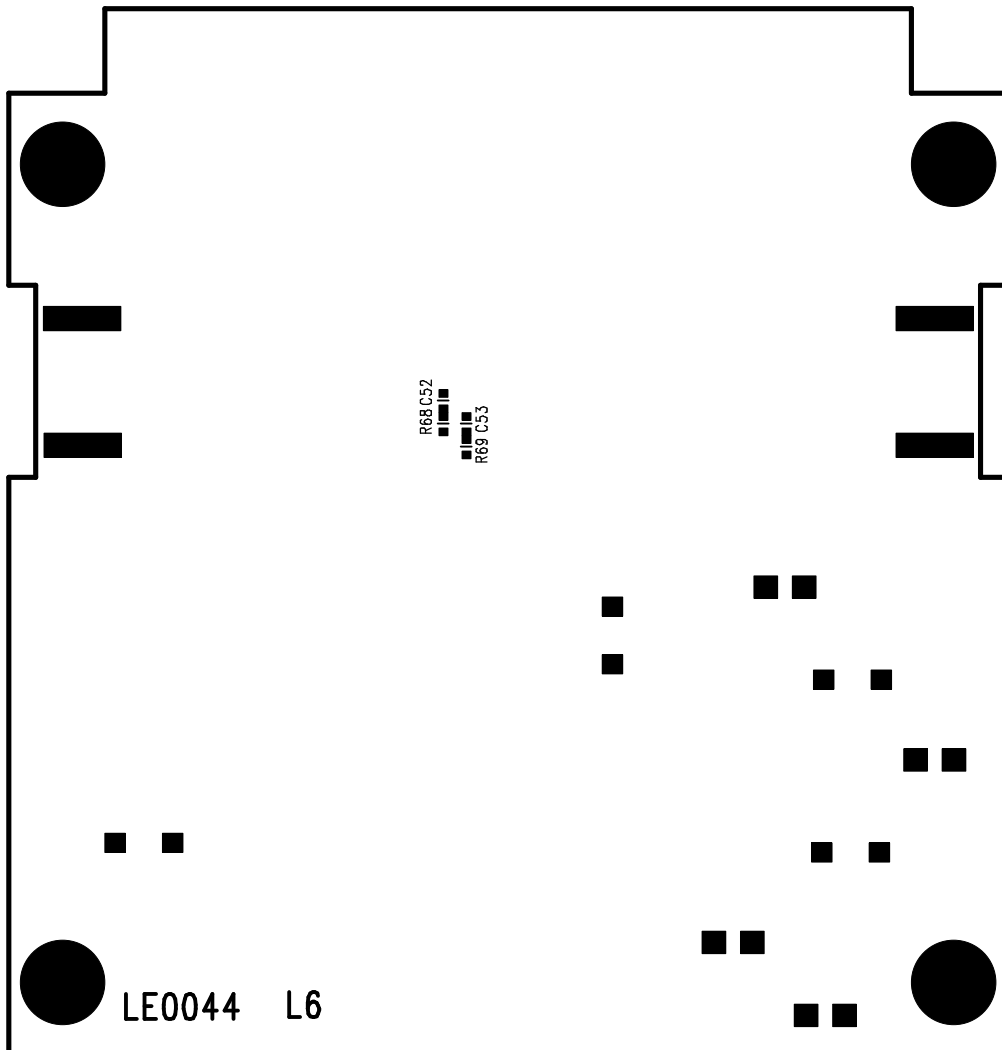
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Bill Of Materials for LN3.sch on Thu Sep 21 13:53:39 2023

Item	Qty	Reference	Part Name	Wert	Wert2	PCB DECAL
1	1	T4	BFT92			SOT23
2	1	T2	BFU520Y			SOT363
4	2	C3 C14	C	1u		0402
5	1	C5	C	1n		0402
6	1	C6	C	10u		0805
7	1	C7	C	27p		0805
8	1	C8	C	10u	10V	0805
9	6	C9 C23 C32	C	22u		0603
		C36 C43 C47				
10	1	C15	C	220p		0402
11	1	C16	C	22p		0402
12	1	C18	C	47n		0805
13	7	C20 C25 C28	C	1u		0603
		C31 C44-45				
		C4				
14	5	C27 C33 C40	C	10u		0603
		C24 C21				
15	2	C11 C50	C	10n		0603
16	2	C35 C38	C	100n		0402
17	5	C37 C26	C			0402
		C51-53				
18	1	C30	C	330p		0603
19	2	C10 C48	C			0603
20	1	C12	C	470n	C0G	1206
21	1	C22	C	8p2		0805
22	1	C29	C	2u2	X7R	0603
23	1	C41	C	100n		0603
24	1	C13	C	8p2		0603
25	1	D2	DZ	4V3		SOD-523
26	3	C1-2 C49	EC	680u	10V	EC150D80
27	1	C19	EC	1500u	6V3	EC150D80
28	4	C34 C39 C42	EC_SMD	22u	6V3	0603P
		C46				
29	1	T1	IRLML0030			SOT23
30	1	D4	LED_SMD	RT		0603D
31	1	U4	LM2611	LM2611A		SOT23-5
32	2	U2 U9	LP2980	MIC5205YM5		SOT23-5
33	1	L1	L_SMD	10uH	LQH32PB	1210
34	2	L2-3	L_SMD	27n	LQG18	0603
35	1	L4	L_SMD	2uH2	LQH32PB	1210
36	1	L5	L_SMD	15uH	LQH32PB	1210
37	1	L6	L_SMD	47uH	LQH32PB	1210
38	1	T3	NPN	BFU530		SOT23
39	1	U3	OP-SOT23-5	OPA189		SOT23-5
40	1	U1	OPT0	21LR11		SSOP4
41	1	U5	OP_WSON1	OPA855		WSON1
42	1	D3	PMEG4010	PMEG4010EH		SOD-123F
43	1	P1	POTI	100k		P5SS_SMD
44	1	P2	POTI	500		P5SS_SMD
45	1	P3	POTI	250		P5SS_SMD
46	3	R1 R44 R55	R	10		0603
47	2	R4-5	R	100		0603
48	4	R6 R23 R37	R	100k		0603
		R59				
49	1	R10	R	1k8		0603
50	1	R11	R	100		0402
51	2	R12 R22	R	0R22		0402
52	2	R14 R31	R	0R68		0603
53	1	R16	R	4k7		0402
54	5	R17 R25 R30	R	10k		0603
		R40 R51				
55	2	R13 R7	R	1M		0603
56	1	R24	R	150k		0603
57	2	R18 R63	R	56k		0603
58	1	R27	R	2k0		0402
59	1	R28	R	5k6		0402

60	1	R29	R	36		0603
61	1	R19	R	10M		0603
62	1	R15	R	10k		0402
63	1	R32	R	390k		0603
64	2	R33 R2	R			0402
65	1	R35	R	82		0603
66	1	R36	R	270		0603
67	1	R8	R	390		0603
68	2	R38-39	R	22		0603
69	2	R20 R58	R	270k		0603
70	2	R42 R52	R	1		0603
71	1	R34	R	1k2		0402
72	1	R45	R	75		0402
73	1	R46	R	470		0402
74	1	R47	R	2k		0402
75	1	R48	R	47		0603
76	1	R49	R	2k7		0603
77	1	R50	R	30k		0603
78	1	R21	R	49k9		0603
79	1	R43	R	16k		0603
80	3	R53 R68-69	R			0603
81	1	R56	R	49R9		0603
82	1	R57	R	150		0603
83	1	R41	R	120		0603
84	2	R9 R60	R	18k		0603
85	1	R61	R	51k		0603
86	2	R62 R65	R	0R22		0603
87	1	R64	R	47k		0603
88	1	R26	R	5k1		0603
89	1	R66	R	75k		0603
90	1	R67	R	82k		0603
91	1	R54	R	24R9		0402
92	1	R3	R	3R3		0603
93	4	J2-5	SL2			SL100_1X2
94	2	J1 J6	SMA_B			SMA-180
95	1	C17	TC	3-15p	JR150	TC35SMD
96	2	U7-8	TPS72301			SOT23-5
97	1	U6	TPS7A	TPS7A30		VSS0P9A
98	1	D1	TVSBI	vbus03n1-dd1		0603

Zusätzliche Komponenten:

Schirmung:

1x Laird	SMS-457F	+	SMS-457C
1x Masach Tech Ltd.	MS168-10F	+	MS168-10C

Gehäuse:

KEMO G02B - 6 V Kunststoffgehäuse

ACHTUNG: !!!

Für C12 470nF 1206 muss ein Klasse-1-Keramikkondensatoren (NP0/C0G)
verwendet werden.