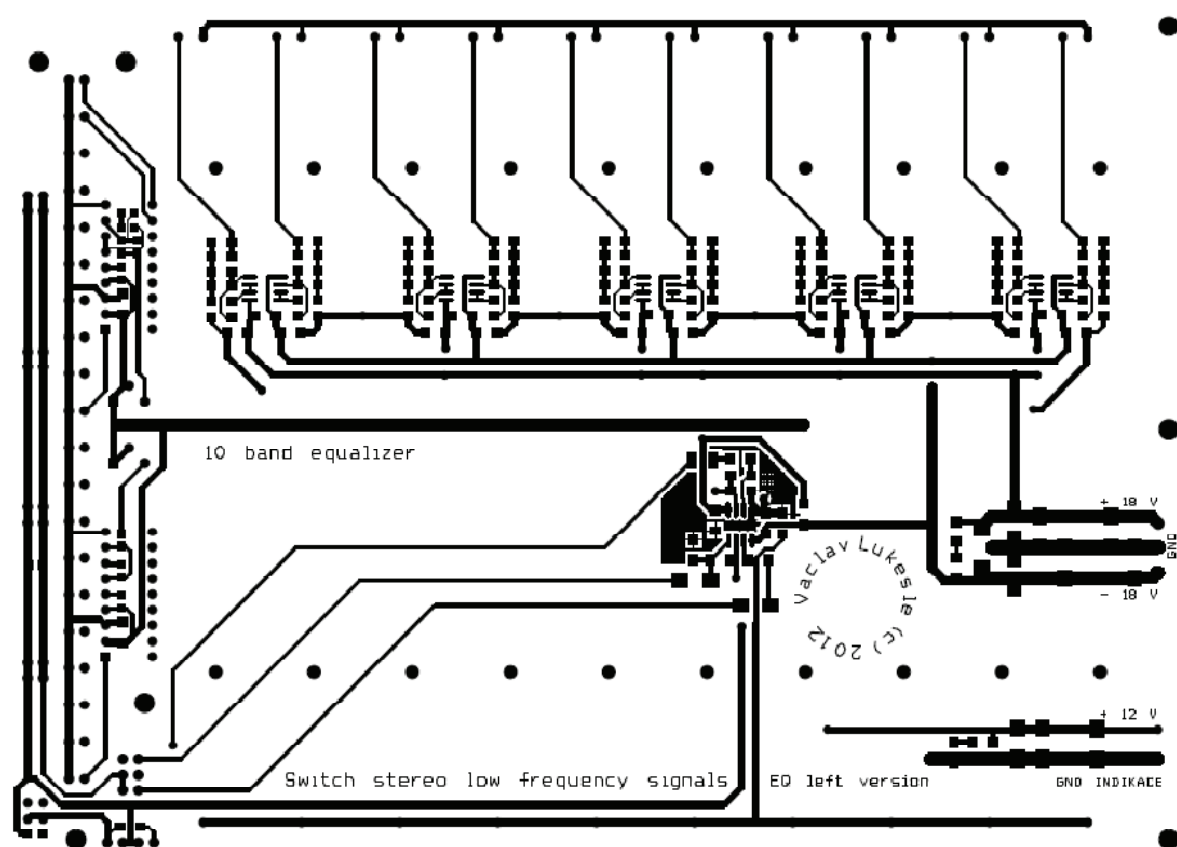
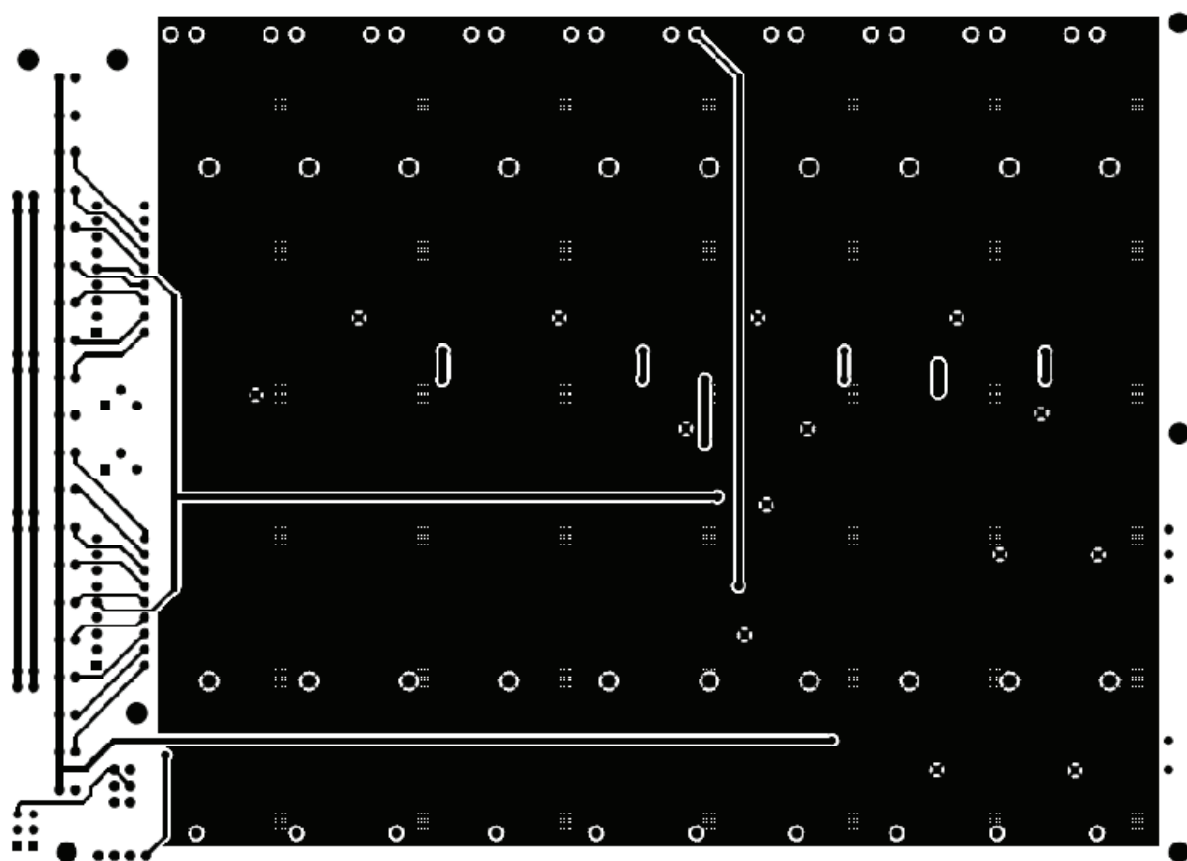


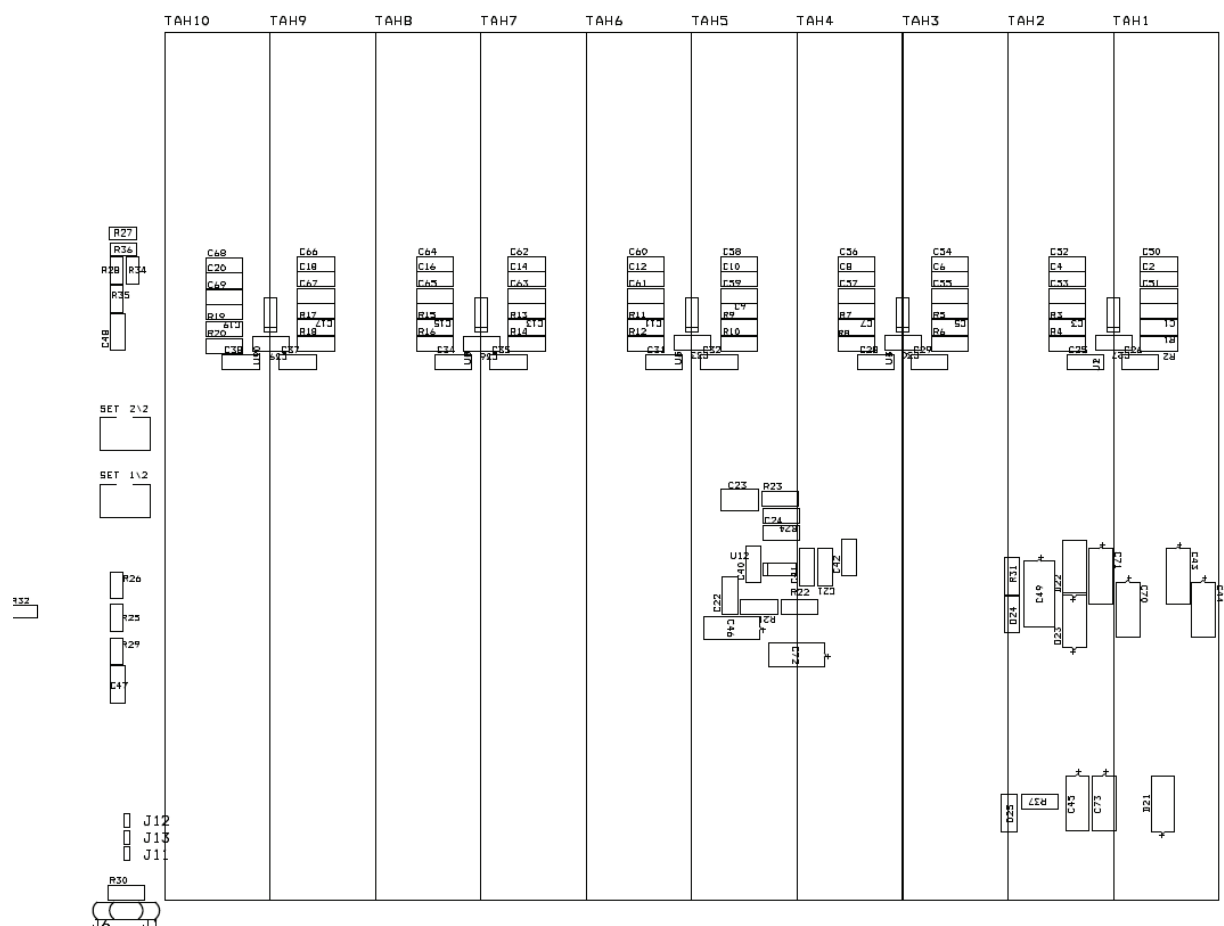
Příloha 1. Obrazy desek plošných spojů



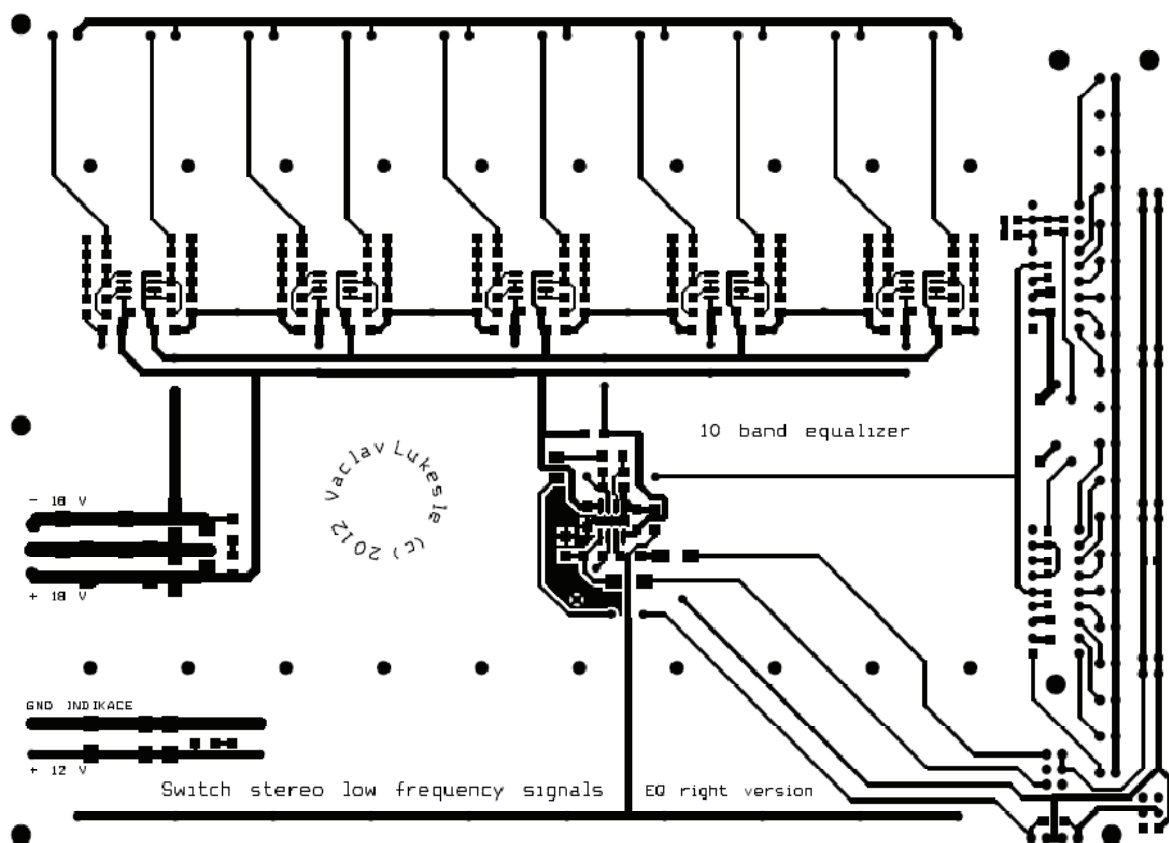
DPS ekvalizér, levá strana, vrstva top



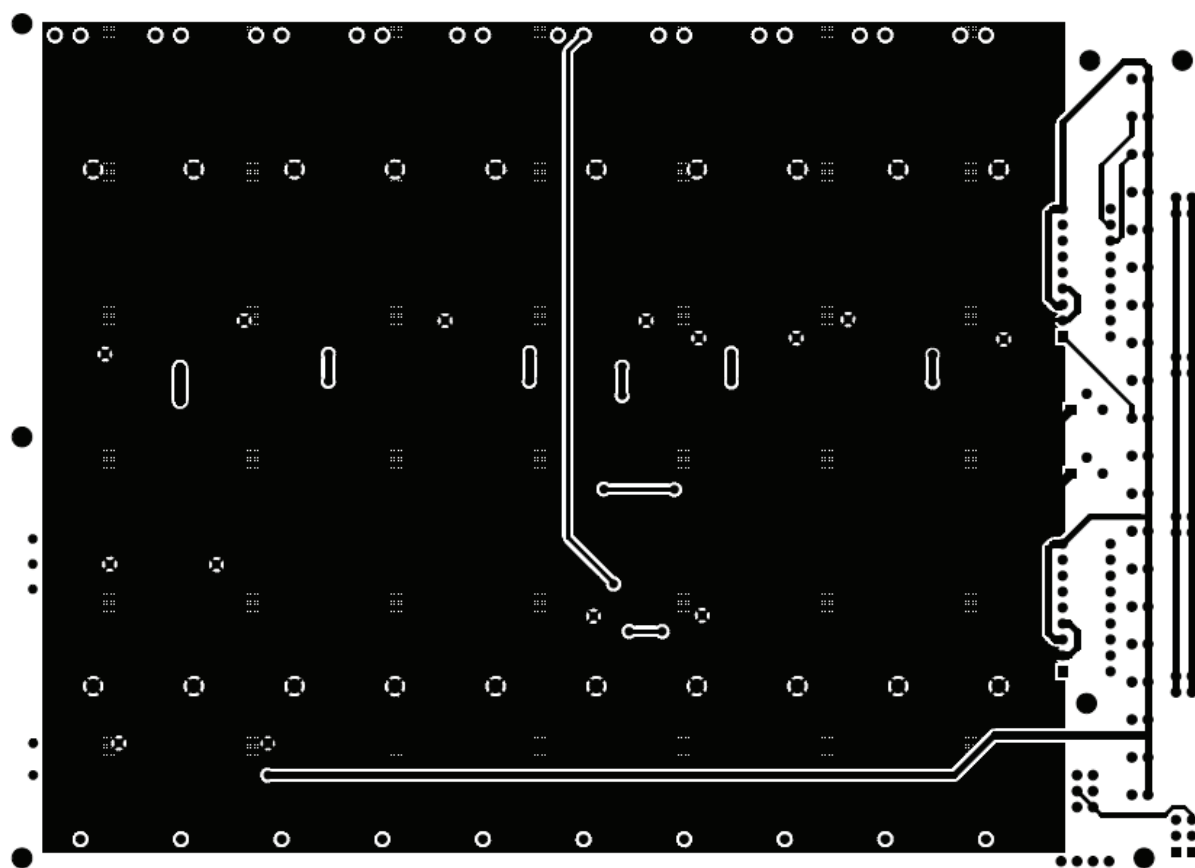
DPS ekvalizér, levá strana, vrstva bottom



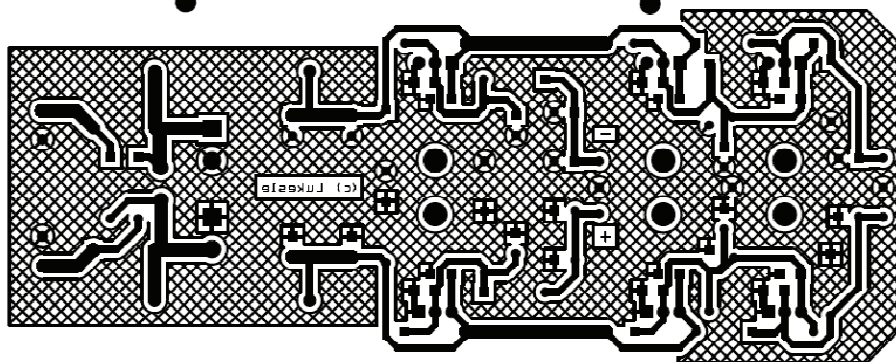
Osazovací výkres DPS ekvalizér, levá strana



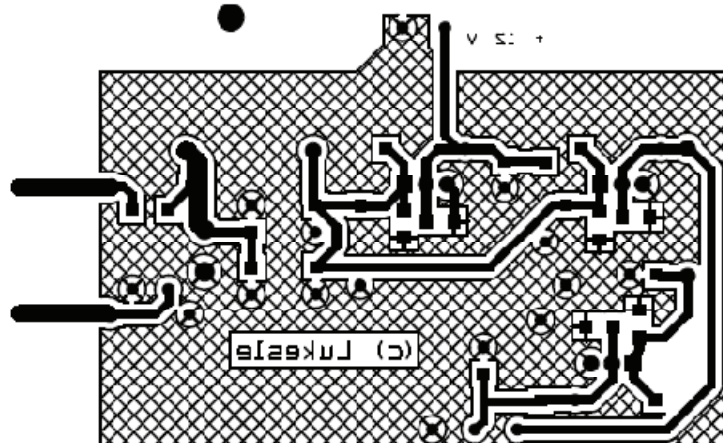
DPS ekvalizér, pravá strana, vrstva top



DPS ekvalizér, pravá strana, vrstva bottom



DPS zdroj 2 x 18 V a 2 x 15 V



DPS zdroj 12 V a 5 V

Příloha 2. Rozpiska elektrických součástek

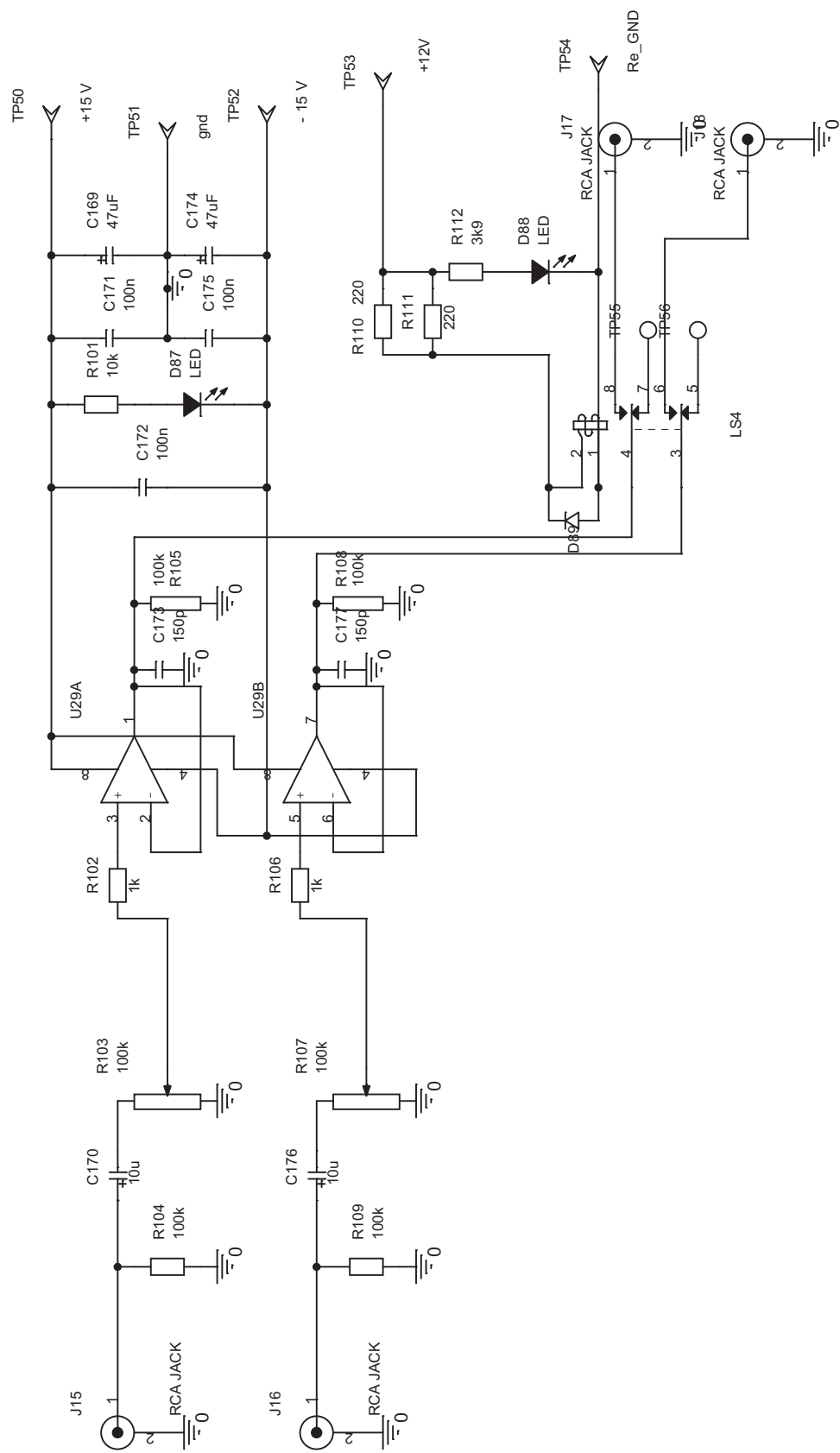
1	10	C1,C2,C3,C12,C13,C14,C17, 47u /25 V C19,C26,C29
2	4	C4,C5,C9,C10 220 uF / 63 V
3	66	C6,C8,C16,C18,C20,C23, 100n C24,C27,C32,C35,C40,C42, C46,C47,C50,C68,C69,C74, C83,C84,C85,C86,C87,C88, C89,C90,C91,C92,C93,C94, C95,C96,C97,C98,C99,C100, C117,C118,C123,C132,C133, C134,C135,C136,C137,C138, C139,C140,C141,C142,C143, C144,C145,C146,C147,C148, C149,C153,C154,C157,C162, C163,C166,C171,C172,C175
4	9	C7,C11,C21,C22,C25,C28, 220n C33,C41,C43
5	1	C15 100n / 500V
6	4	C30,C34,C36,C37 47u/35V
7	1	C31 47u/16V
8	1	C38 10u/16V
9	1	C39 10uF/10V
10	8	C44,C49,C151,C156,C160, 47uF C165,C169,C174
11	12	C45,C51,C53,C66,C102, 10u C115,C152,C158,C161,C167, C170,C176

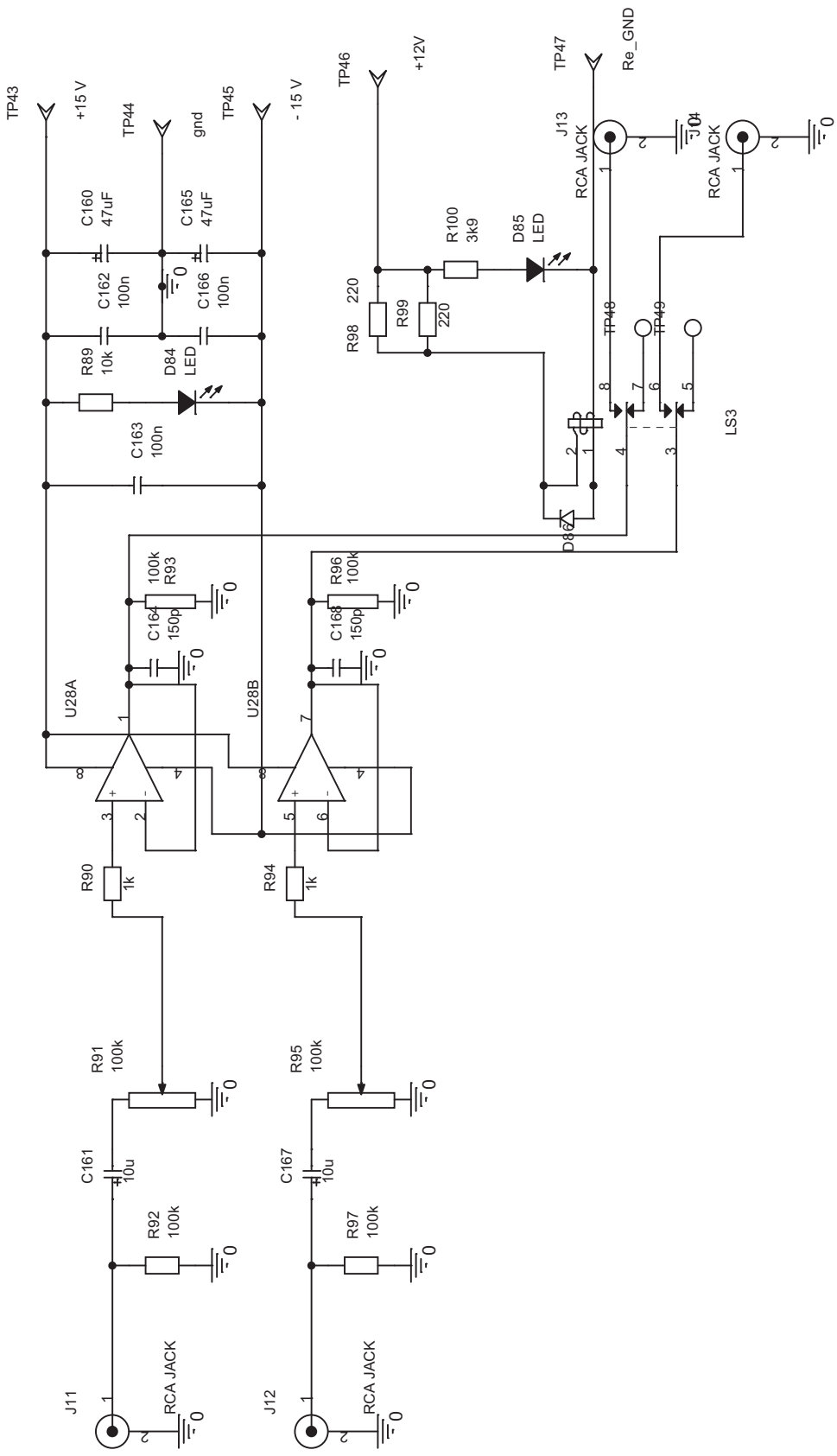
12	10	C48,C52,C54,C103,C155, C159,C164,C168,C173,C177	150p
13	2	C104,C55	3u
14	4	C56,C80,C105,C129	1u
15	2	C106,C57	570n
16	2	C107,C58	267n
17	2	C108,C59	133n
18	2	C109,C60	333n
19	2	C110,C61	147n
20	4	C62,C63,C111,C112	47n
21	2	C113,C64	25.3n
22	2	C114,C65	100u/16V
23	4	C67,C81,C116,C130	100p
24	2	C119,C70	66n
25	2	C120,C71	28.8n
26	2	C121,C72	11n
27	2	C122,C73	8n2
28	2	C124,C75	10n
29	2	C125,C76	3.3n
30	2	C126,C77	1.5n
31	2	C127,C78	1n
32	2	C128,C79	330p
33	2	C131,C82	100u / 35V
34	2	C150,C101	100u / 35 V
35	31	D1,D2,D3,D4,D5,D6,D7,D8, D9,D10,D11,D12,D13,D14, D15,D16,D17,D18,D19,D20, D21,D22,D23,D24,D25,D26, D27,D28,D29,D30,D31	DIODE

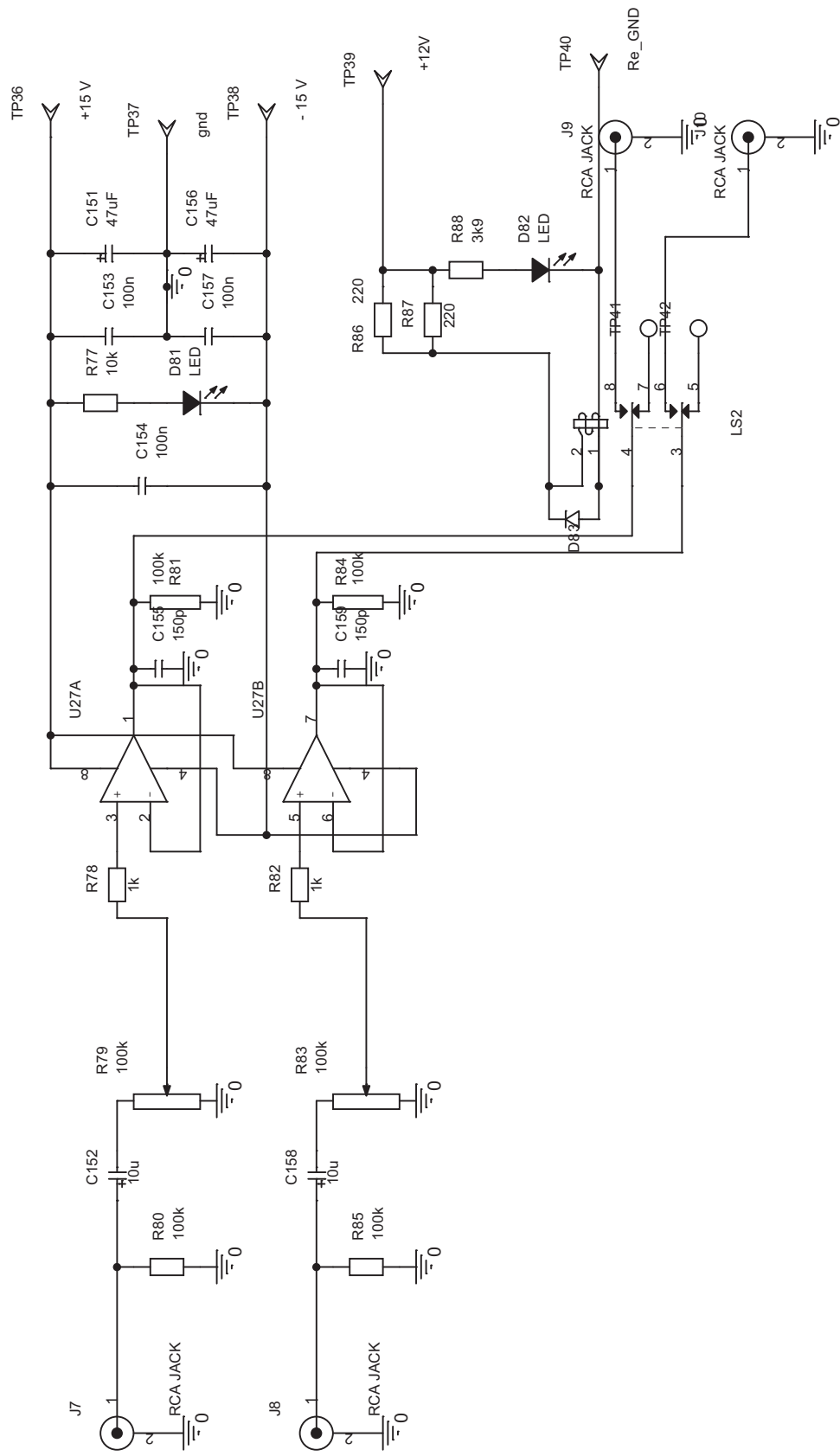
36	8	D32,D33,D81,D82,D84,D85, LED D87,D88
37	6	D35,D48,D52,D58,D71,D75 D05NU41
38	2	D59,D36 HLMP-3301
39	38	D37,D38,D39,D40,D41,D42, HLMP-1790 D43,D44,D45,D46,D47,D49, D50,D51,D53,D54,D55,D56, D57,D60,D61,D62,D63,D64, D65,D66,D67,D68,D69,D70, D72,D73,D74,D76,D77,D78, D79,D80
40	2	F2,F1 FUSE
41	18	J1,J2,J3,J4,J5,J6,J7,J8, RCA JACK J9,J10,J11,J12,J13,J14, J15,J16,J17,J18
42	4	LS1,LS2,LS3,LS4 R10-E1X2-V52
43	2	MASTER VOLUME2, 250k MASTER VOLUME1
44	2	R1,R2 27R/5W
45	1	R3 47R / 6 W
46	1	R4 100R
47	32	TAH1,TAH2,TAH3,TAH4,TAH5, 10k R5,TAH6,TAH7,TAH8,TAH9, TAH10,TAH11,TAH12,TAH13, TAH14,TAH15,TAH16,TAH17, R17,TAH18,TAH19,TAH20, R28,R42,R43,R47,R58,R72, R73,R77,R89,R101
48	10	R6,R10,R41,R71,R78,R82, 1k

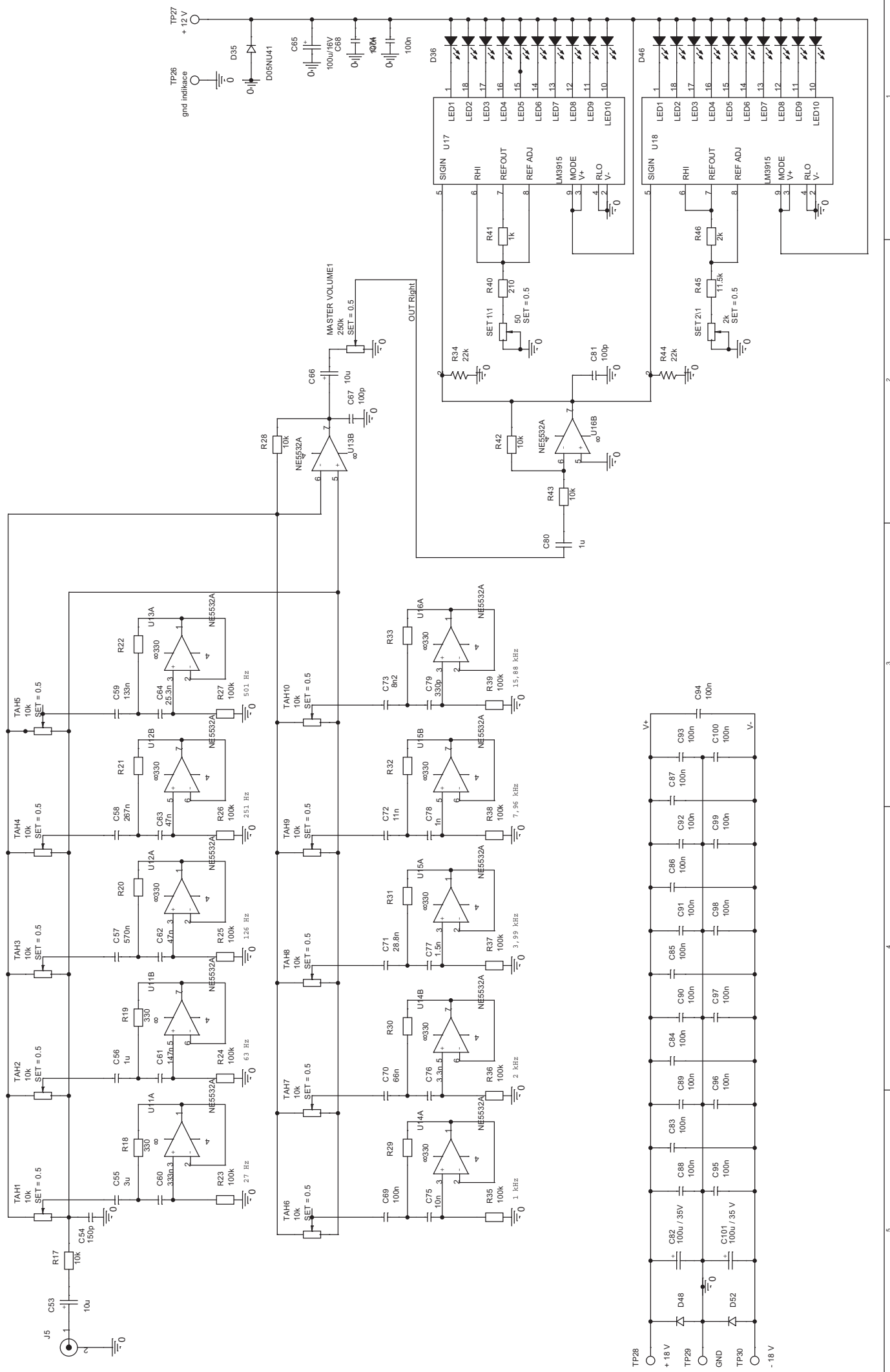
		R90,R94,R102,R106	
49	44	R7,R8,R9,R11,R12,R13,R23, R24,R25,R26,R27,R35,R36, R37,R38,R39,R53,R54,R55, R56,R57,R65,R66,R67,R68, R69,R79,R80,R81,R83,R84, R85,R91,R92,R93,R95,R96, R97,R103,R104,R105,R107, R108,R109	100k
50	8	R14,R15,R86,R87,R98,R99, R110,R111	220
51	4	R16,R88,R100,R112	3k9
52	20	R18,R19,R20,R21,R22,R29, R30,R31,R32,R33,R48,R49, R50,R51,R52,R59,R60,R61, R62,R63	330
53	4	R34,R44,R64,R74	22k
54	2	R70,R40	210
55	2	R75,R45	11.5k
56	4	SET 2\1,SET 2\2,R46,R76	2k
57	2	SET 1\2,SET 1\1	50
58	1	TP1	+ 17 V
59	11	TP2,TP8,TP10,TP14,TP18, TP20,TP29,TP34,TP37,TP44, TP51	gnd
60	4	TP3,TP5,TP12,TP17	230 V
61	1	TP4	- 17 V
62	3	TP6,TP28,TP33	+ 18 V
63	1	TP7	+ 15 V

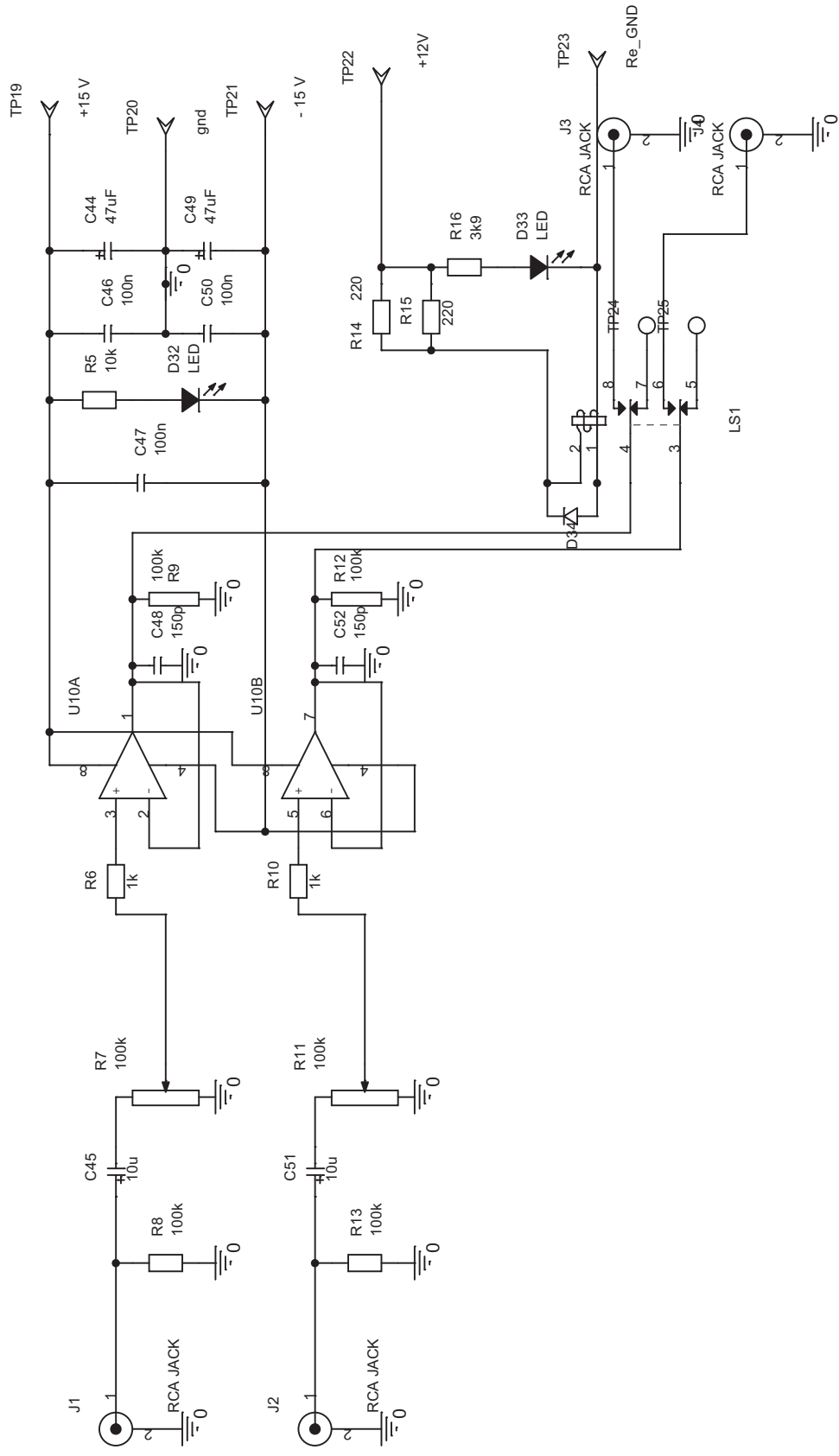
64	5	TP9,TP21,TP38,TP45,TP52	- 15 V
65	3	TP11,TP30,TP35	- 18 V
66	1	TP13	+ 12 V (indikace)
67	1	TP15	+12 V
68	1	TP16	+5 V
69	4	TP19,TP36,TP43,TP50	+15 V
70	4	TP22,TP39,TP46,TP53	+12V
71	4	TP23,TP40,TP47,TP54	Re_GND
72	8	TP24,TP25,TP41,TP42,TP48, TP49,TP55,TP56	T POINT R
73	2	TP31,TP26	gnd indikace
74	2	TP32,TP27	+ 12 V
75	1	T1	TRNSFMR 2 x 24 V
76	1	T2	TRNSFMR 12 V
77	2	U3,U1	LM7818C
78	2	U2,U5	LM7918C
79	1	U4	LM7815C
80	1	U6	LM7915C
81	2	U7,U8	LM7812C
82	1	U9	LM7805C
83	4	U10,U27,U28,U29	NE5532
84	12	U11,U12,U13,U14,U15,U16, U19,U20,U21,U22,U23,U24	NE5532A
85	4	U17,U18,U25,U26	LM3915
86	6	Konektor cinch zlacený	
87	2m	Jednotlivě stíněná dvojlinka	
88	5m	Dvojlinka 2 x 0.5 mm ²	
89	1	Otočný přepínač	

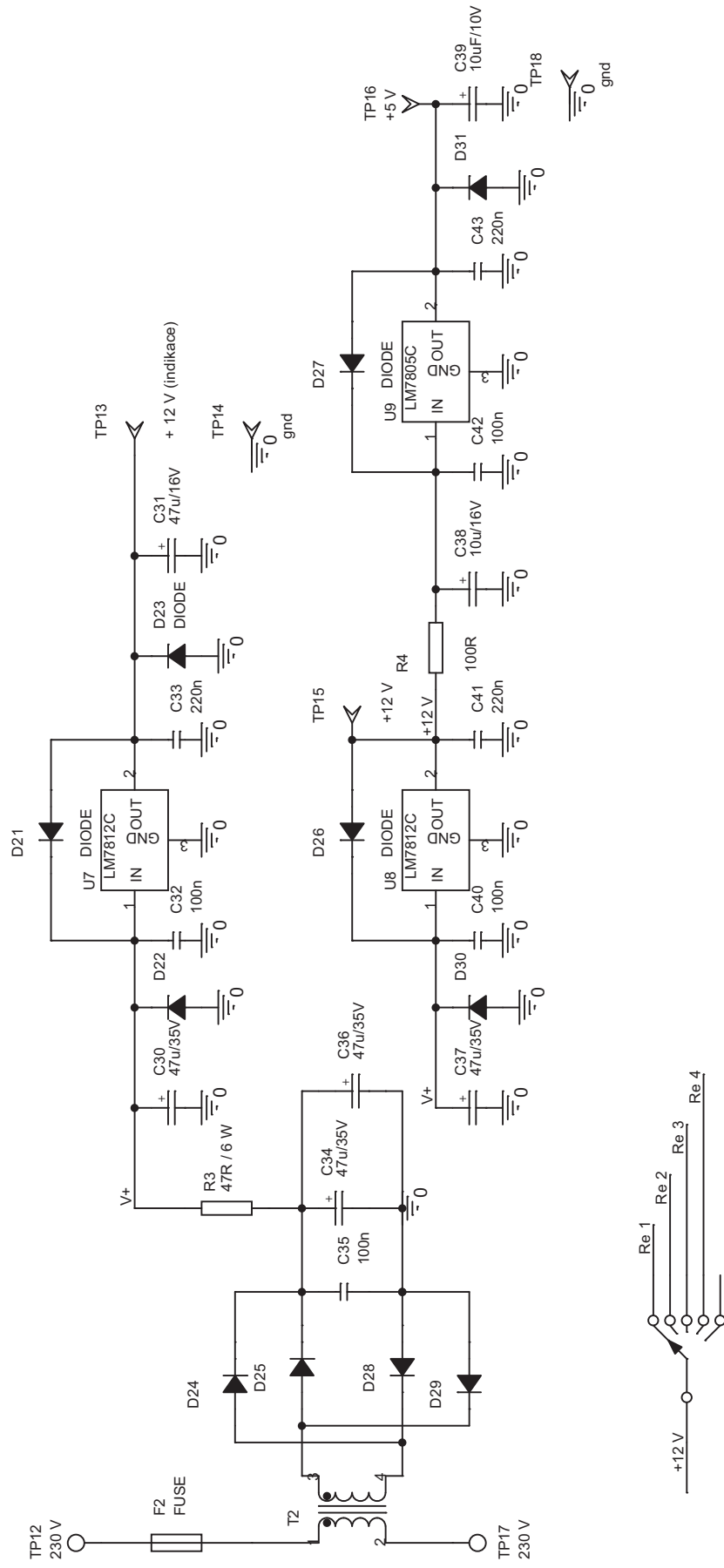


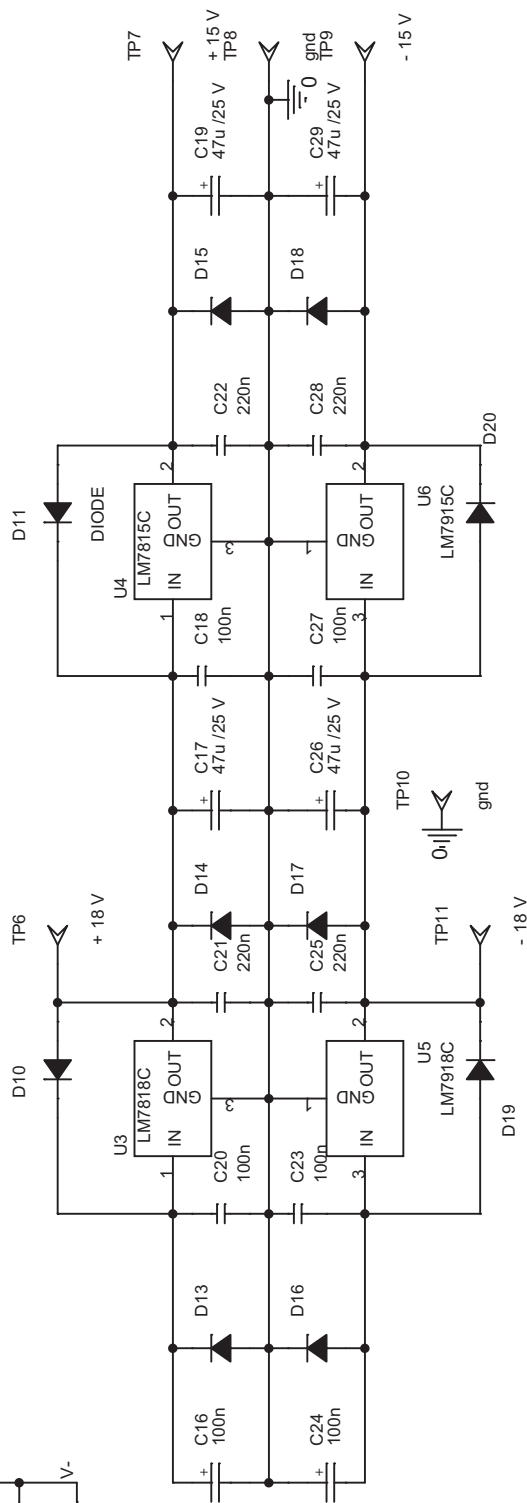
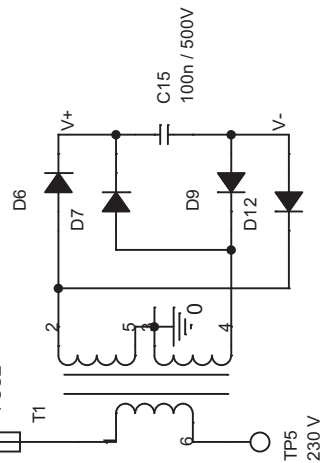
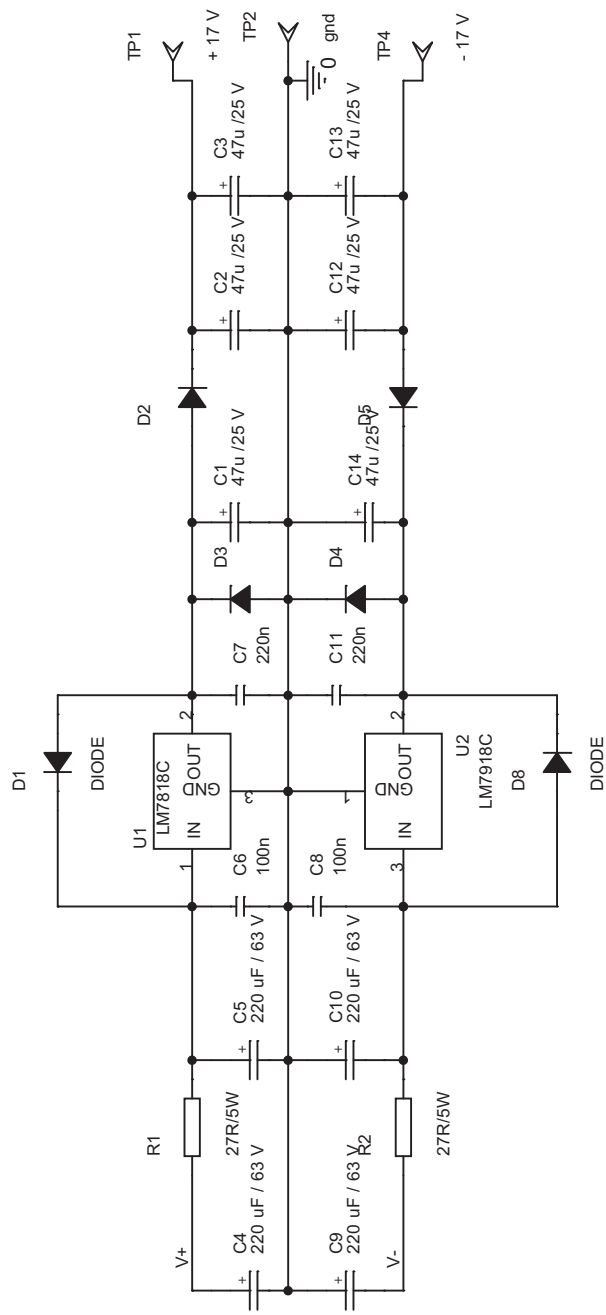


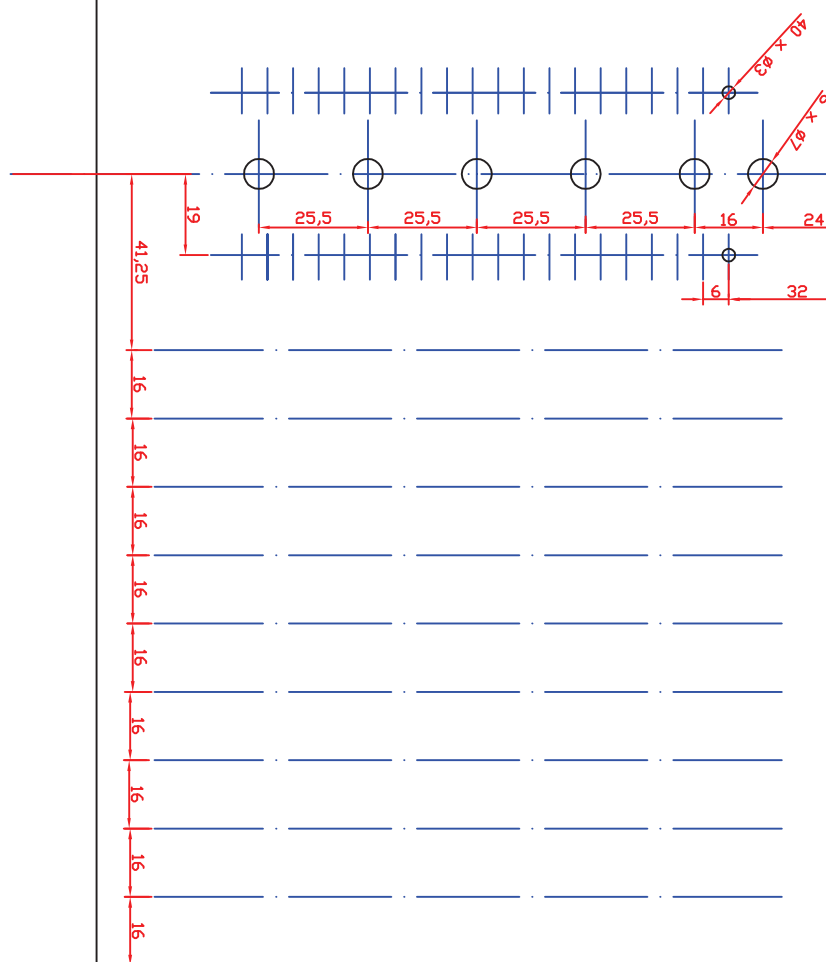




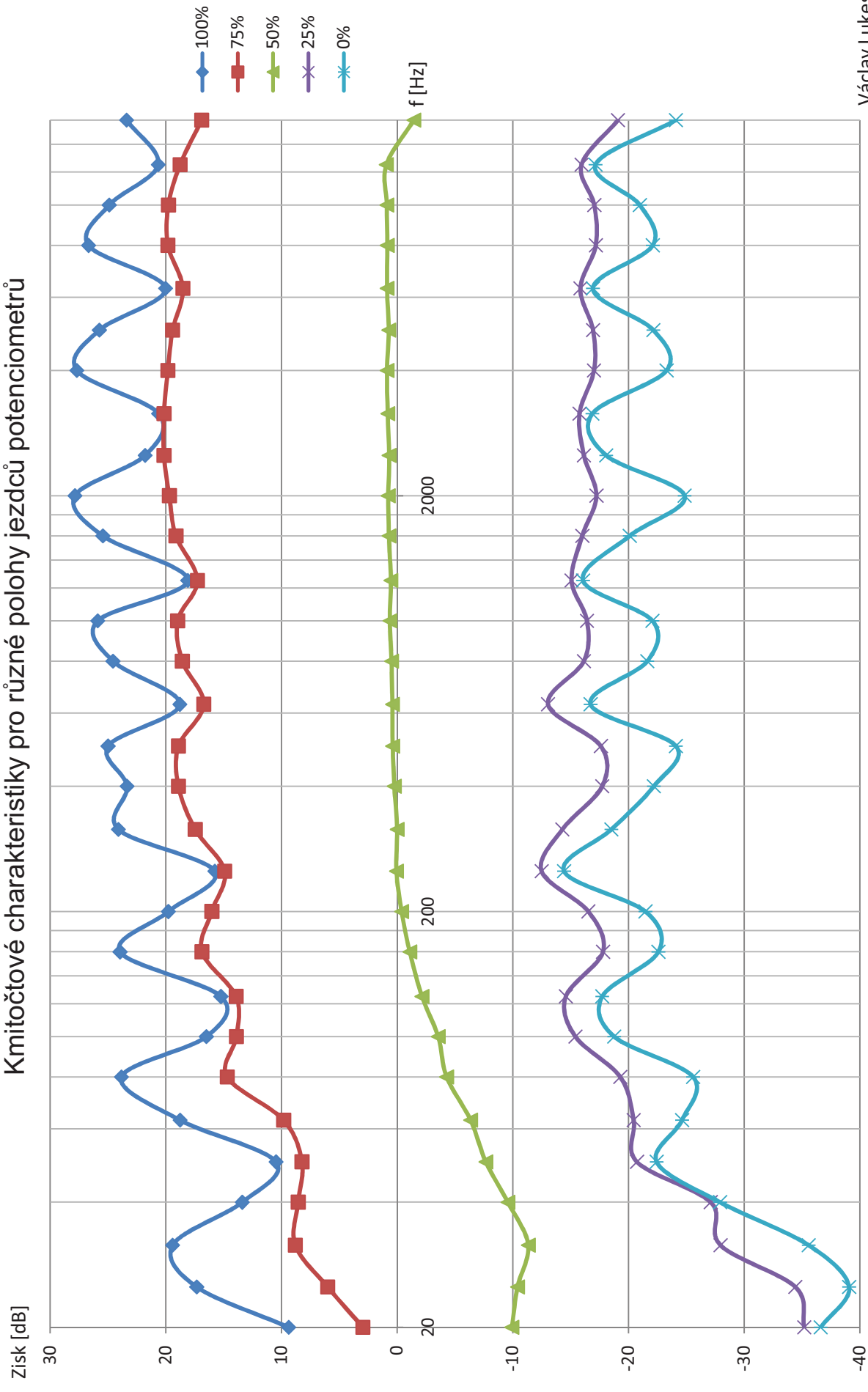








Kmitočtové charakteristiky pro různé polohy jezdců potenciometrů



poloha potenciometru 0 %		
Uin=295mv [Hz]	UoutP [mV]	Vout [dB]
20	4,36	-36,606711
25	3,28	-39,078963
31,5	4,91	-35,57481
40	11,85	-27,922073
50	22,3	-22,430343
63	17,3	-24,635518
80	15,5	-25,589806
100	34	-18,766862
125	38,3	-17,732465
160	21,9	-22,587558
200	24,9	-21,472453
250	56	-14,43268
315	35	-18,515079
400	22,93	-22,188359
500	18,41	-24,095365
630	43	-16,727071
800	24,47	-21,623761
1000	23,24	-22,071718
1250	46,35	-16,075446
1600	29,12	-20,112613
2000	16,88	-24,848991
2500	36,8	-18,079484
3150	42,27	-16,875795
4000	20,19	-23,293714
5000	23,03	-22,150562
6300	42	-16,931455
8000	23,16	-22,101669
10000	26,34	-20,984125
12500	40,96	-17,149241
16000	18,4	-24,100084

poloha potenciometru 25 %		
Uin=295mv [Hz]	UoutP [mV]	Vout [dB]
20	5,13	-35,194093
25	5,61	-34,417183
31,5	11,8	-27,9588
40	13,01	-27,110894
50	27,08	-20,743467
63	28	-20,45328
80	32	-19,293441
100	50	-15,41704
125	55	-14,589187
160	38	-17,800768
200	44	-16,527387
250	70	-12,49448
315	57	-14,278943
400	38,3	-17,732465
500	38,8	-17,619806
630	65,67	-13,0491
800	46	-16,141284
1000	44,56	-16,417537
1250	52	-15,076373
1600	46,67	-16,015684
2000	40,57	-17,23234
2500	46	-16,141284
3150	48	-15,771616
4000	41,56	-17,02293
5000	41,98	-16,935592
6300	47,6	-15,844301
8000	40,83	-17,176853
10000	41,44	-17,048045
12500	47,06	-15,943402
16000	32,74	-19,094867

poloha potenciometru 75 %		
Uin=295mv [Hz]	UoutP [V]	Vout [dB]
20	0,415	2,96452161
25	0,589	6,00586558
31,5	0,812	8,79468027
40	0,789	8,54509974
50	0,76	8,21983153
63	0,912	9,80345645
80	1,6	14,6859593
100	1,46	13,8906168
125	1,463	13,9084462
160	2,057	16,8682455
200	1,863	16,0078168
250	1,64	14,9004366
315	2,2	17,4520133
400	2,6	18,9030266

poloha potenciometru 100 %		
Uin=150mv [Hz]	UoutP [V]	Vout [dB]
20	0,441	9,36694661
25	1,1	17,3060285
31,5	1,4	19,4007355
40	0,7	13,3801356
50	0,5	10,4575749
63	1,3	18,7570419
80	2,33	23,8252932
100	1	16,4781748
125	0,865	15,218497
160	2,36	23,9364149
200	1,46	19,7652319
250	0,92	15,7539314
315	2,401	24,086018
400	2,202	23,3345211

500	2,6	18,9030266
630	2,02	16,7105871
800	2,5	18,5623599
1000	2,62	18,9695855
1250	2,15	17,2523289
1600	2,664	19,1142441
2000	2,843	19,6790969
2500	3	20,1459848
3150	3	20,1459848
4000	2,885	19,806476
5000	2,754	19,4028384
6300	2,488	18,5205672
8000	2,886	19,8094862
10000	2,87	19,7611976
12500	2,555	18,7513778
16000	2,063	16,8935442

500	2,66	24,9758076
630	1,3026	18,7743963
800	2,532	24,5474488
1000	2,952	25,8805019
1250	1,202	18,0762642
1600	2,8	25,4213354
2000	3,7	27,8422093
2500	1,84	21,7745313
3150	1,606	20,5930856
4000	3,633	27,6834828
5000	2,9	25,7261348
6300	1,503	20,0173544
8000	3,23	26,6622253
10000	2,628	24,870682
12500	1,616	20,6470019
16000	2,2125	23,3758404

poloha potenciometru 50 %		
f [Hz]	UoutP [mV]	Vout [dB]
20	94	-9,9338832
25	89	-10,40864
31,5	80	-11,334641
40	98	-9,5719188
50	122	-7,6692437
63	142	-6,3506734
80	180	-4,2909902
100	196	-3,5513189
125	230	-2,1618836
160	260	-1,0969734
200	282	-0,3914582
250	297	0,05868867
315	295	0
400	303	0,23241225
500	308	0,37457401
630	309	0,40272927
800	312	0,48665156
1000	317	0,62474492
1250	314	0,54215264
1600	320	0,70655925
2000	322	0,76067711
2500	319	0,67937334
3150	324	0,81445988
4000	326	0,86791168
5000	321	0,73366033
6300	326	0,86791168
8000	325	0,8412269
10000	327	0,89451473
12500	328	0,92103655
16000	250	-1,4376401