

U_CONN
CONN.SchDoc

SWR_HF
SWR_HF.SchDoc

U_CONTROL
CONTROL.SchDoc

U_LNA
LNA.SchDoc

SWR_VHF
SWR_VHF.SchDoc

HF_AMP
HF_AMP.SchDoc

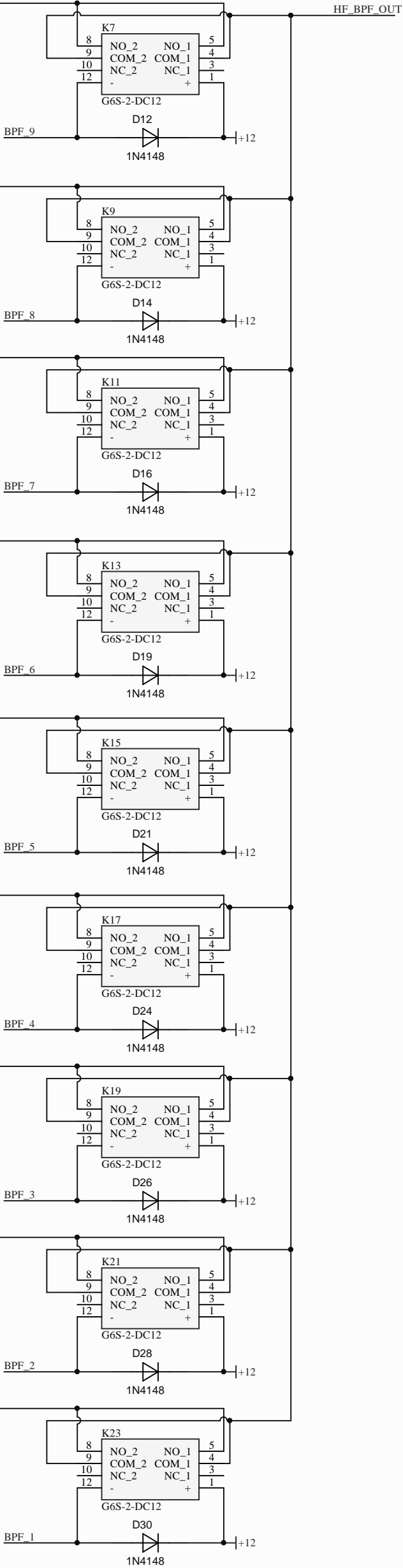
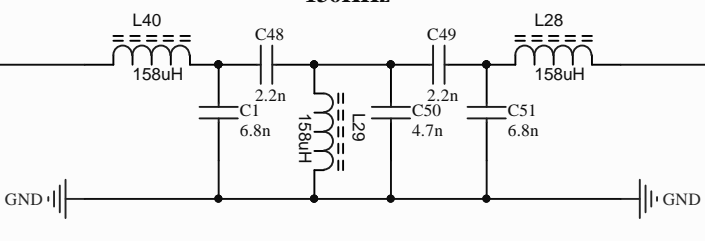
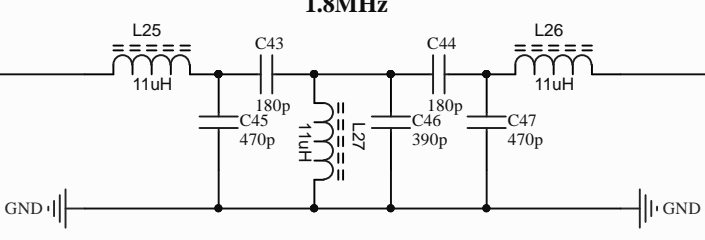
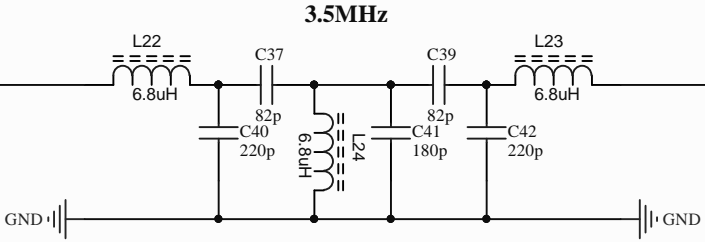
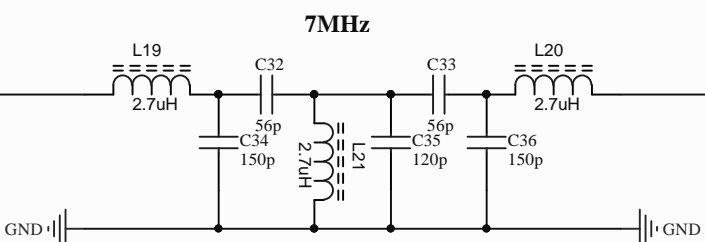
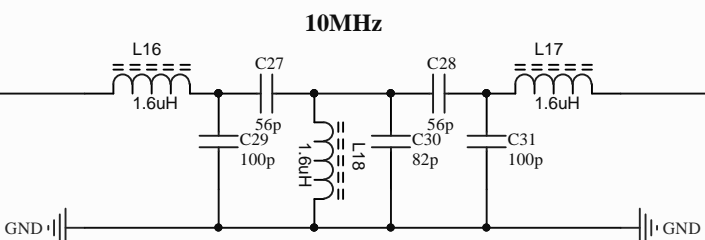
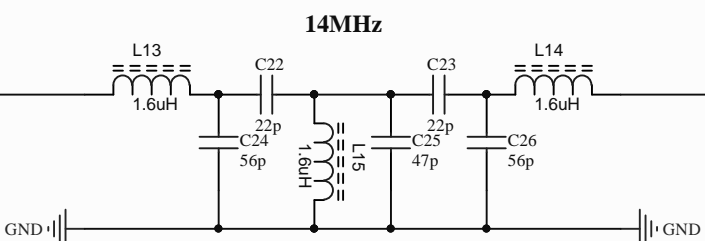
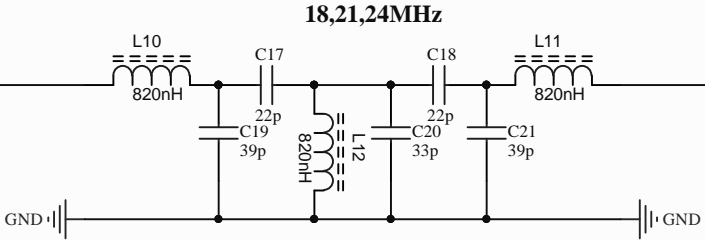
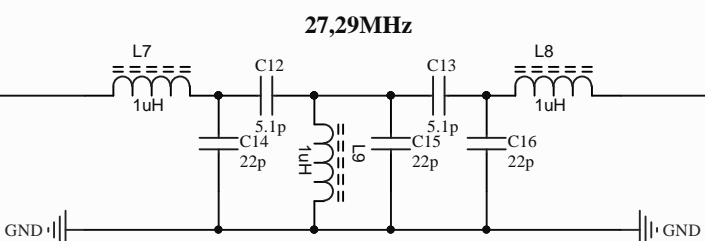
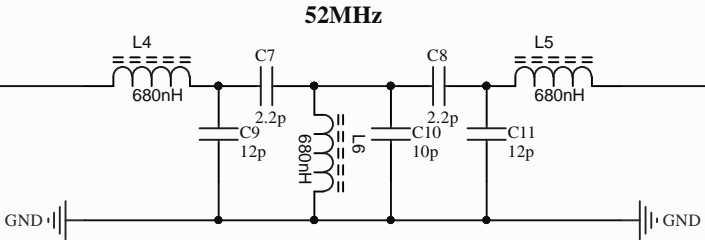
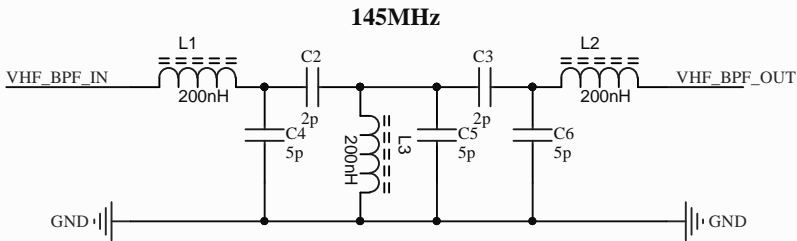
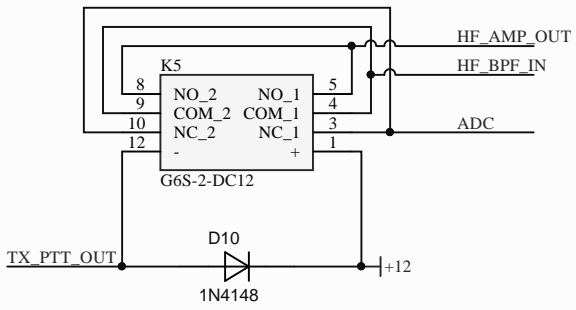
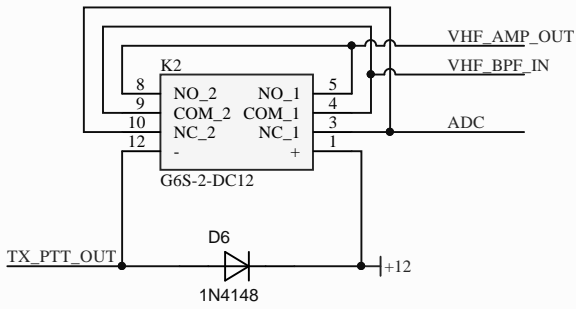
HF_TUNER
HF_TUNER.SchDoc

U_BPF
BPF.SchDoc

HF_AMP_DRIVER
HF_AMP_DRIVER.SchDoc

VHF_AMP
VHF_AMP.SchDoc

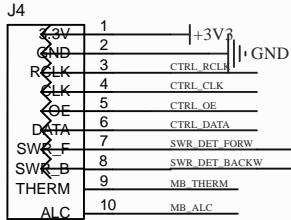
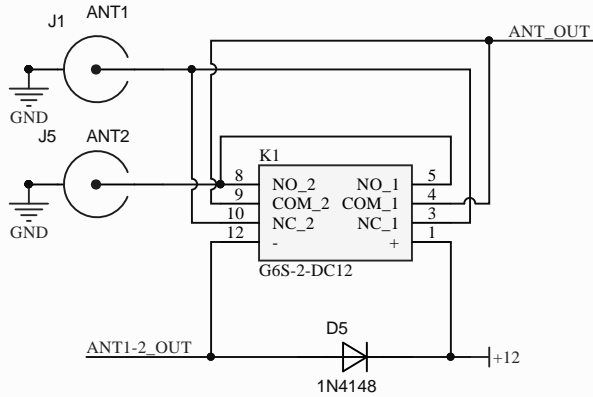
BPF



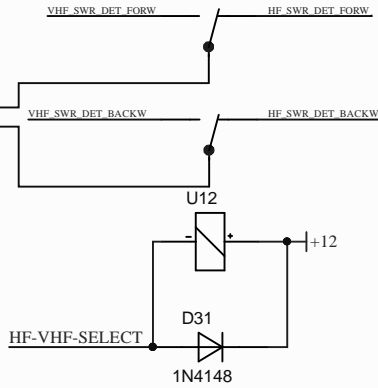
0.5mm cord
2200m - 158uH - M1000HM3-5 K16*10*4,5 - 19.5 turns
160m - 11uH - T68-2 - 44 turns
80m - 6.8uH - T68-2 - 35 turns
40m - 2.7uH - T68-2 - 22 turns
30m - 1.6uH - T68-2 - 17 turns
20m - 1.6uH - T68-2 - 17 turns
17,15,12m - 820nH - T68-2 - 12 turns
CB,10m - 1uH - T68-2 - 13 turns
6m - 680nH - T50-6 - 12 turns
2m - 200nH - air - 6 turns, 7mm diam



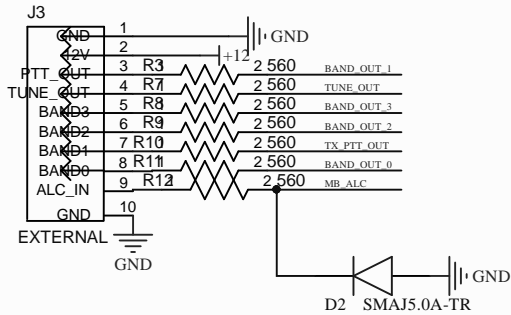
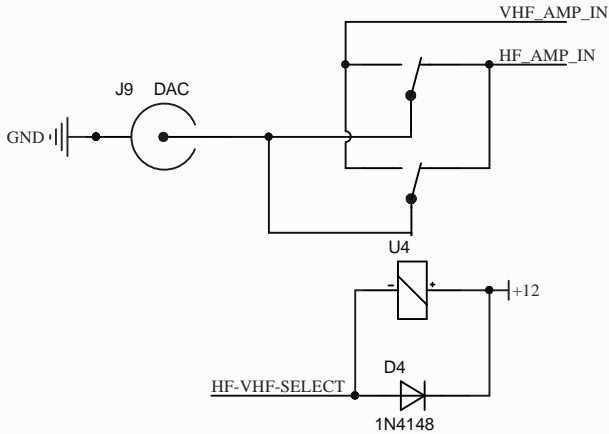
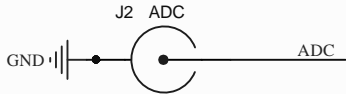
TXRX_COMUTATOR

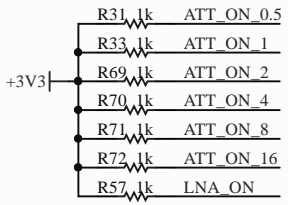
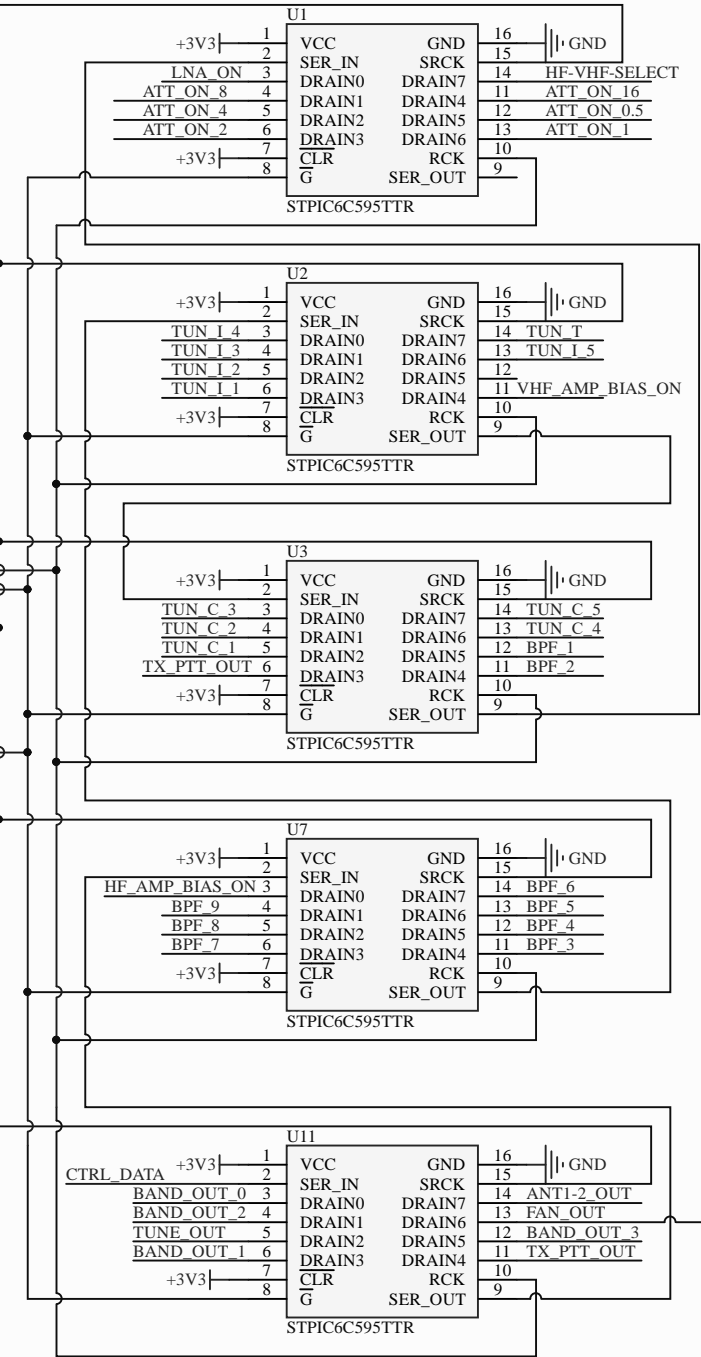


MOTHERBOARD

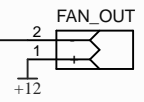
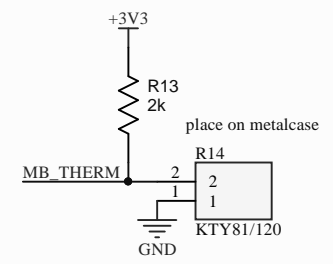


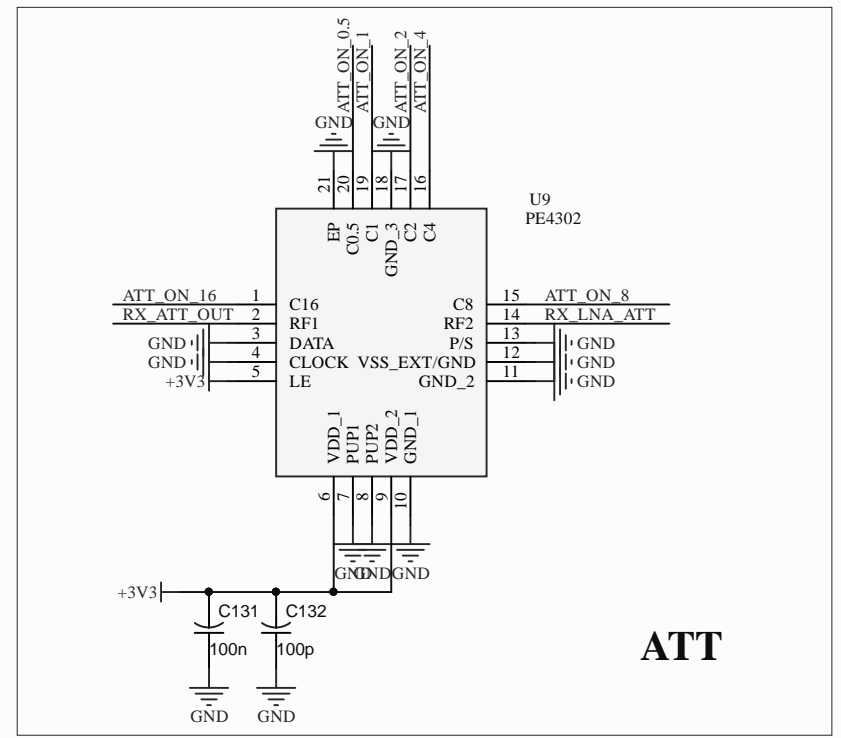
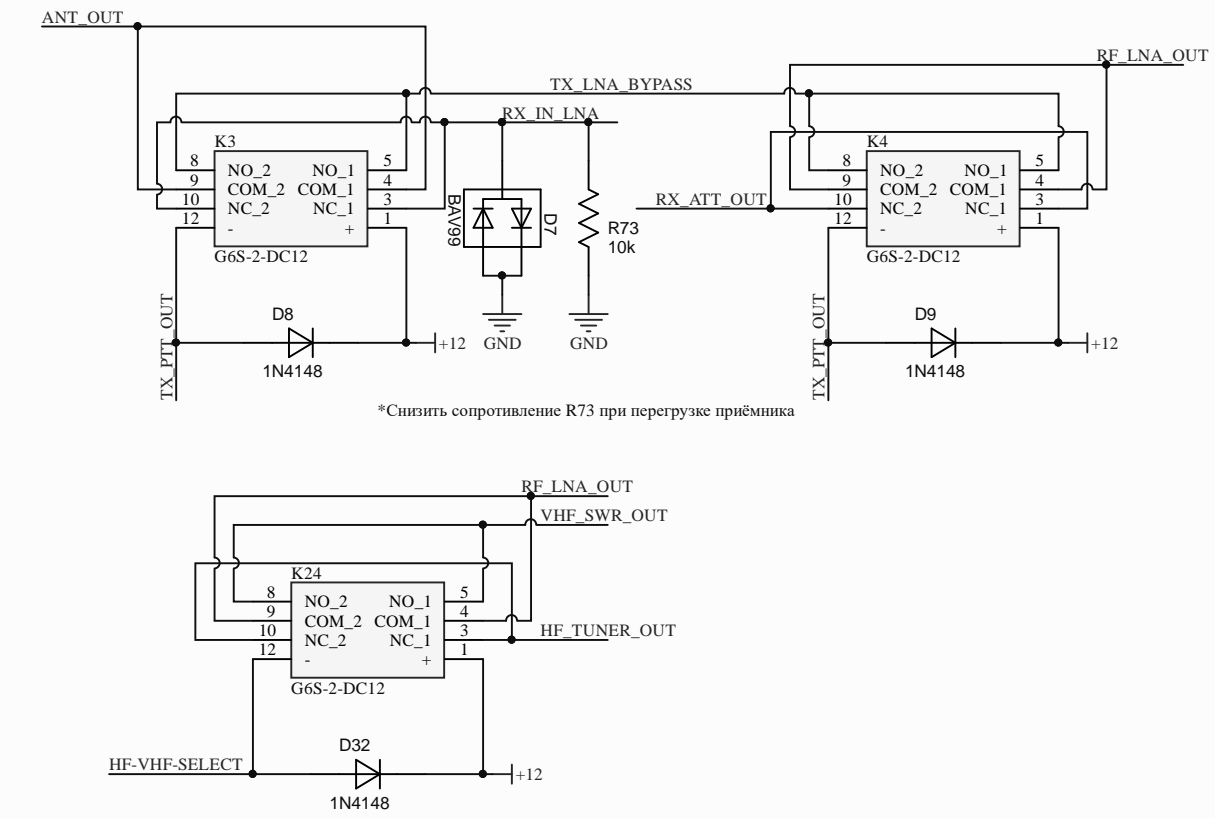
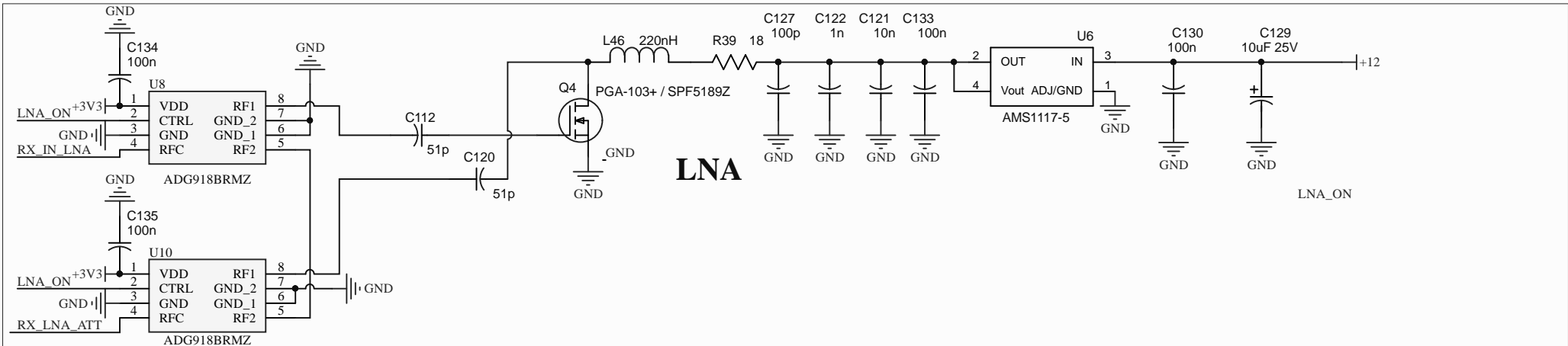
CONN





CTRL_RCLK
CTRL_OE
CTRL_CLK

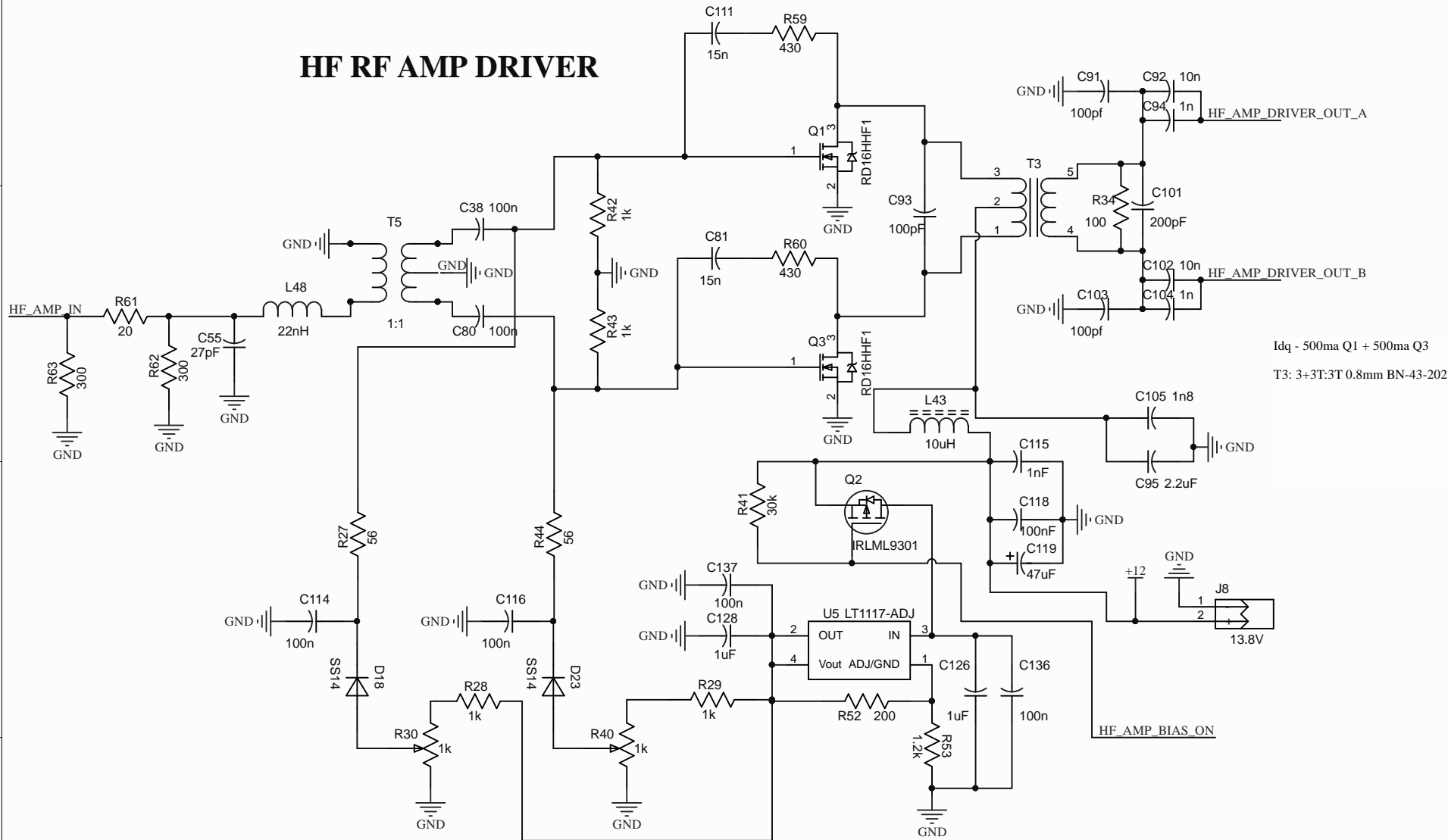




A

C

HF RF AMP DRIVER



Idq - 500ma Q1 + 500ma Q3
T3: 3+3T:3T 0.8mm BN-43-202

Title **HF RF AMP DRIVER**

Size: A4

Number:17

Revision:2.0

Date: 17.05.2021

Time: 22:56:49

Sheet 17 of 18

File: D:\Dropbox\Develop\Projects\WOLF\Scheme\Experimental\RF-UNIT-BIG\HF AMP DRIVER.SchDoc

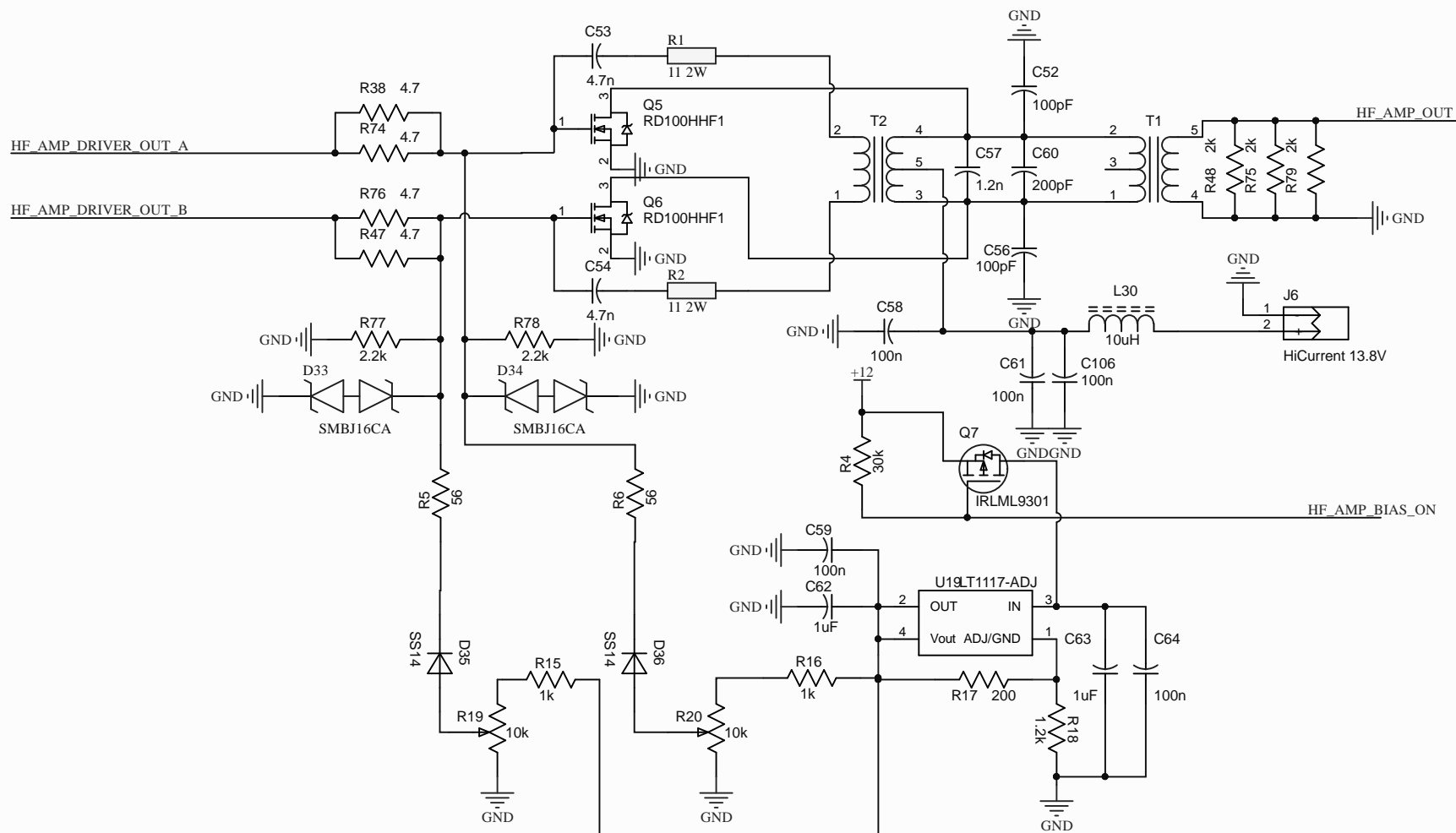


HF RF AMP

Idq - 500ma Q5 + 500ma Q6

T1: 1T:4T 25ohms coaxial BN-61-002

T2: 13+13T:1T 0.8mm FT-82-43-TR



Title **HF RF AMP**

Size: A4

Number:17

Revision:2.0

Date: 17.05.2021

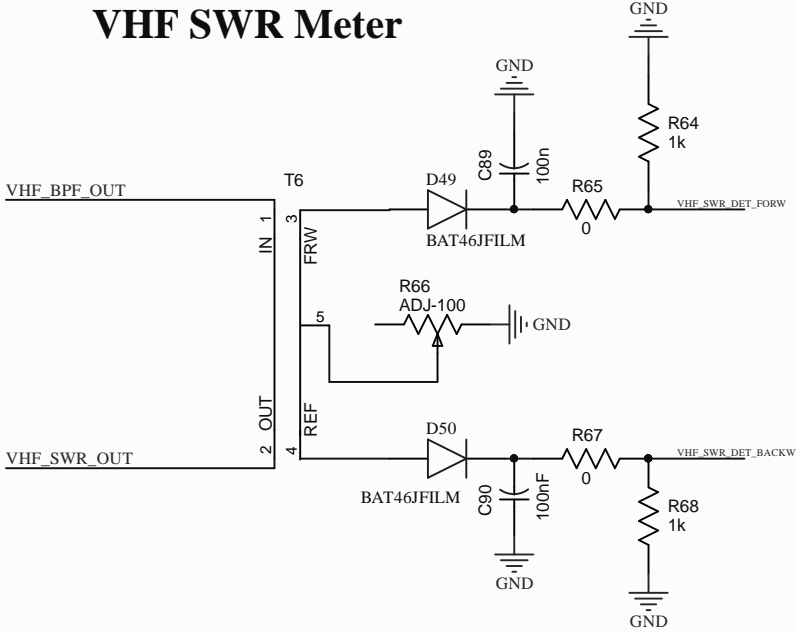
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Sheet 17 of 18

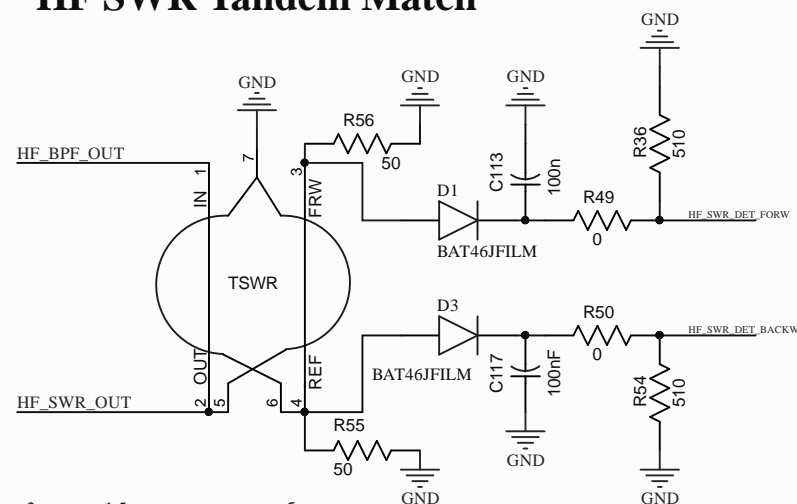
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VHF SWR Meter



HF SWR Tandem Match




2 провода 1.5мм пропущено через бинокль
по диагонали пропущено и намотано по 20 витков 0.5мм

4



2.2uH - T68-2 - 20 turns
1uH - T68-2 - 13 turns
450nH - T68-2 - 9 turns
220nH - T68-2 - 6 turns
100nH - T68-2 - 4 turns

Title <i>HF Tuner</i>			<div style="display: flex; align-items: center; justify-content: center;"> <div style="margin-right: 10px;"> * * * * * </div>  </div>
Size: A4	Number:18	Revision:2.0	
Date: 17.05.2021	Time: 22:56:49	Sheet 18 of 18	
File: D:\Dropbox\Develop\Projects\WOLF\Scheme\Experimental\RF-UNIT-BIG\HF_TUNER.SchDoc			

Comment	Description	Designator	Footprint	LibRef	Quantity
8.8n	Capacitor NPO HiVol	C2, C3	CAP_1206	B3262.0A0682.X0B	2
2p	Capacitor NPO HiVol	C4, C5, C6	CAP_1206	B3262.0A0682.X0B	2
2.2p	Capacitor NPO HiVol	C7, C8	CAP_1206	B3262.0A0682.X0B	3
12p	Capacitor NPO HiVol	C9, C11	CAP_1206	B3262.0A0682.X0B	2
15p	Capacitor NPO HiVol	C10	CAP_1206	B3262.0A0682.X0B	1
5.1p	Capacitor NPO HiVol	C12, C13	CAP_1206	B3262.0A0682.X0B	2
22p	Capacitor NPO HiVol	C14, C15, C16, C17	CAP_1206	B3262.0A0682.X0B	7
39p	Capacitor NPO HiVol	C19, C21	CAP_1206	B3262.0A0682.X0B	2
13p	Capacitor NPO HiVol	C20	CAP_1206	B3262.0A0682.X0B	1
56p	Capacitor NPO HiVol	C24, C26, C27, C28	CAP_1206	B3262.0A0682.X0B	6
47p	Capacitor NPO HiVol	C25	CAP_1206	B3262.0A0682.X0B	1
100p	Capacitor NPO HiVol	C29, C31	CAP_1206	B3262.0A0682.X0B	2
82p	Capacitor NPO HiVol	C30, C37, C39	CAP_1206	B3262.0A0682.X0B	3
15p	Capacitor NPO HiVol	C34, C36	CAP_1206	B3262.0A0682.X0B	2
120n	Capacitor NPO HiVol	C35	CAP_1206	B3262.0A0682.X0B	1
100n	CAP_0805	C38, C39, C64, C78	CAP_0805	CAP_0805	16
22n	Capacitor NPO HiVol	C40, C42	CAP_1206	B3262.0A0682.X0B	2
18p	Capacitor NPO HiVol	C41, C43, C44	CAP_1206	B3262.0A0682.X0B	3
47n	Capacitor NPO HiVol	C45, C47	CAP_1206	B3262.0A0682.X0B	2
19n	Capacitor NPO HiVol	C46	CAP_1206	B3262.0A0682.X0B	1
2.2n	Capacitor NPO HiVol	C48, C49	CAP_1206	B3262.0A0682.X0B	2
4.7n	Capacitor NPO HiVol	C50, C53, C54	CAP_1206	B3262.0A0682.X0B	3
100pF	CAP_1206	C52, C56, C91, C93	CAP_1206	CAP_1206	5
27p	CAP_0805	C55	CAP_0805	CAP_0805	1
1.2n	CAP_1206	C57	CAP_1206	CAP_1206	1
100n	CAP_1206	C58, C61, C106	CAP_1206	CAP_1206	3
200pF	CAP_1206	C60, C101	CAP_1206	CAP_1206	2
1uF	CAP_0805	C62, C63, C79, C85	CAP_0805	CAP_0805	6
6.5-30pF	1253P100A10	C65, C66	S025P1018	CAP_0805	2
100pF	CAP_0805	C67, C71, C76, C96	CAP_0805	CAP_0805	6
120pF	CAP_0805	C68, C73	CAP_0805	CAP_0805	2
10n	CAP_1206	C69, C92, C102	CAP_1206	CAP_1206	3
4.7n	CAP_0805	C70, C75	CAP_0805	CAP_0805	2
100pF	CAP_0805	C72	CAP_0805	CAP_0805	1
22n	CAPAE 6.5w 6h5.4	C74, C77	CAPAE 6.5w 6h5.4	CAPAE 6.5w 6h5.4	2
15n	CAP_1206	C81, C111	CAP_1206	CAP_1206	2
10p	Capacitor	C84	B3262.0A0682.X0B	B3262.0A0682.X0B	1
22p	Capacitor	C85	B3262.0A0682.X0B	B3262.0A0682.X0B	1
47p	Capacitor	C86	B3262.0A0682.X0B	B3262.0A0682.X0B	1
100p	Capacitor	C87	B3262.0A0682.X0B	B3262.0A0682.X0B	1
22pF	Capacitor	C88	B3262.0A0682.X0B	B3262.0A0682.X0B	1
1n	CAP_1206	C94, C104	CAP_1206	CAP_1206	2
2.2uF	CAP_1206	C95	CAP_1206	CAP_1206	1
100n	Capacitor NPO HiVol	C96, C97, C98, C99	CAP_1206	B3262.0A0682.X0B	5
1nH	CAP_1206	C105	CAP_1206	CAP_1206	1
51p	CAP_0805	C112, C120	CAP_0805	CAP_0805	2
1nF	CAP_0805	C115	CAP_0805	CAP_0805	1
47uF	CAPAE 6.5w 6h5.4	C121	CAPAE 6.5w 6h5.4	CAPAE 6.5w 6h5.4	1
10n	CAP_0805	C122	6-0805_M	CAP_0805	1
1n	CAP_0805	C122	6-0805_M	CAP_0805	1
100pF	CAP_0805	C127, C132	6-0805_M	CAP_0805	2
10uF 25V	CAPAE 5.36 3h6.1	C129	CAPAE 5.36 3h6.1	CAPAE 5.36 3h6.1	1
100n	CAP_0805	C131	6-0805_M	CAP_0805	1
BAT46F,ILM	Diode	DI, D3, D49, D50	S002513X117N	BAT46F,ILM	4
5MA6.0A-IR	Diode	D2	5MB26CAT8	5MAY3V3	1
1N4148	1N4148	D4, D5, D6, D8, D9	SSM	1N4148	37
8AVV9	8AVV9	D7	50T23	8AVV9	1
55M	55M	D18, D23, D25, D36	SSM	SSM	5
5MEJ6CA	YVS Diode (Bi-directed)	D33, D34	D30N643AX261N	5MEJ6CA	2
FERRITE BEAD	IND. FERRITE BEAD	F1, F2	RES	IND. FERRITE BEAD	2
51022-0200	51022-0200	FAN_OUT	51022-0200	51022-0200	1
ANT1	ANT1	J1	31-543	31-543	1
ADC	ADC	J2	31-543	31-543	1
EXTERNAL	2*5 PIN	J3	90131-0126	90131-0126	1
MODIFIERBOARD	2*5 PIN	J4	90131-0126	90131-0126	1
ANT2	ANT2	J5	31-543	31-543	1
Microcent 13.8V	BZ	B, B	1986T172	1986T172	2
13.8V	BZ	B	1986T172	1986T172	1
UAC	SMA	J9	31-543	31-543	1
6G52-DC12	Relay ar>Contact	K1, K2, K3, K4, K5, K6	6G52DC12	6G52-DC12	35
200nH	Inductor	L1, L2, L3	IND. FERRITE_CORE	IND. FERRITE_CORE	3
600nH	Inductor	L4, L5, L6	IND. FERRITE_CORE	IND. FERRITE_CORE	3
1uH	Inductor	L7, L8, L9, L41	IND. FERRITE_CORE	IND. FERRITE_CORE	4
820nH	Inductor	L10, L11, L9	IND. FERRITE_CORE	IND. FERRITE_CORE	3
1.6uH	Inductor	L13, L14, L15, L16	IND. FERRITE_CORE	IND. FERRITE_CORE	6
2.7uH	Inductor	L19, L20, L28	IND. FERRITE_CORE	IND. FERRITE_CORE	3
8.2uH	Inductor	L22, L23, L29	IND. FERRITE_CORE	IND. FERRITE_CORE	3
11uH	Inductor	L25, L26, L30	IND. FERRITE_CORE	IND. FERRITE_CORE	3
15uH	Inductor	L28, L29, L40	IND. FERRITE_CORE	IND. FERRITE_CORE	3
10uH	Inductor	L30, L46	IND. FERRITE_CORE	IND. FERRITE_CORE	2
10uH	IND. 1206	L38	IND. 1206	IND. 1206	1
0.2nH	IND. 0805	L32, L33, L38	IND. 0805	IND. 0805	3
0.1uH	Inductor	L36	IND. FERRITE_CORE	IND. FERRITE_CORE	1
0.22uH	Inductor	L36	IND. FERRITE_CORE	IND. FERRITE_CORE	1
0.45uH	Inductor	L39	IND. FERRITE_CORE	IND. FERRITE_CORE	1
1.2uH	Inductor	L40	IND. FERRITE_CORE	IND. FERRITE_CORE	1
220nH	IND. 1206	L46	IND. 1206	IND. 1206	1
22nH	IND. 0805	L40	IND. 0805	IND. 0805	1
RD16HHF1	RD16HHF1	Q1	RD16_V2	RD16HHF1	2
RD16H301	MS2FET	Q2, Q7, Q10	50T23	MS2FET_ENH_PD	3
PGA103+/SPF518	PGA103+/SPF518	Q5, Q6	S0T89	PGA103+	2
RD100HHF1	RD100HHF1	Q5, Q6	RD100_V2	RD100HHF1	3
RAB0H1415M	RAB0H1415M	Q8	RAB0H1415M	RAB0H1415M	1
RD01M51	RD01M51	Q9	S0T89	RD01M51	1
11.2W	CFR200J00R	R1, R2	RES-2W	CFR200J00R	2
160	RES_0805	R3, R7, R8, R9, R10	RES_0805	RES_0805	7
15k	RES_0805	R4, R41, R45	RES_0805	RES_0805	3
5k	RES_0805	R5, R6, R26, R27, R4	RES_0805	RES_0805	5
2k	RES_0805	R13	RES_0805	RES_0805	1
KTY81/720	Integrated Circuit	R14	T054P40X460X	KTY81-T	1
1k	RES_0805	R15, R16, R28, R29	RES_0805	RES_0805	9
200	RES_0805	R17, R52	RES_0805	RES_0805	2
1.2k	RES_0805	R18, R53	RES_0805	RES_0805	2
ADJ10k	306J	R19, R20	306J	306J	2
820-120	RES_1206	R21	RES_1206	RES_1206	1
470	RES_1206	R22	RES_1206	RES_1206	1
20	RES_1206	R23, R61	RES_1206	RES_1206	2
300	RES_1206	R24, R25, R62, R63	RES_1206	RES_1206	4
ADJ1k	306J	R30, R40, R46	306J	306J	3
1k	RES_0805	R31, R33, R57, R66	RES-0013XA0X40R	CMP-001-00626-1	7
6.8k	RES_0805	R32	RES_0805	RES_0805	1
100	RES_1206	R34	RES_1206	RES_1206	1
510	RES_0805	R36, R54	RES_0805	RES_0805	2
2.2k	RES_0805	R37	RES_0805	RES_0805	1
4.7k	RES_1206	R38, R47, R74, R76	RES_1206	RES_1206	4
18	RES_1206	R39	RES_1206	RES_1206	1
2k	RES_1206	R48, R75, R79	RES_1206	RES_1206	3
0	RES_0805	R49, R50, R65, R67	RES_0805	RES_0805	4
100	RES_0805	R51	RES_0805	RES_0805	1
50	RES_1206	R55, R56	RES_1206	RES_1206	2
420	RES_0805	R58	RES_0805	RES_0805	1
430	RES_1206	R59, R60	RES_1206	RES_1206	2
ADJ100	306J	R66	306J	306J	1
15k	RES_1206	R73	RES_1206	RES_1206	1
2.2k	RES_0805	R77, R78	RES_0805	RES_0805	2
TRANSF_HF2	TRANSF_HF2	T1	TRANSF_HF2-2	TRANSF_HF2	1
TRANSF_HF1	TRANSF_HF1	T2	TRANSF_HF1	TRANSF_HF1	1
TRANSF_HF3	TRANSF_HF3	T5	TRANSF_HF3	TRANSF_HF3	1
1:1	TRANSF_ACORE2	T6	TRANSF_ACORE2	TRANSF_ACORE2	1
SWR_VHF	SWR_VHF	T6	SWR_VHF	SWR_VHF	1
SWR_TANDEM_MATC	SWR_TANDEM_MATC	TSWR	SWR_TANDEM_MATC	SWR_TANDEM_MATC	1
STP1K6C95TTR	Integrated Circuit	U1, U2, U3, U7, U11	S0P65P44X120-1	STP1K6C95TTR	5
4Aem_R80	4Aem_R80	U4, U19, U20	80A8R	4Aem_R80	2
L1T117F5T-ADJ	L1T117F5T-ADJ	U5, U7, U19, U20	L1T117F5T-ADJ	L1T117F5T-ADJ	3
AM61177.5	AM61177.5	U6	AM61177.5	AM61177.5	1
ADG9188RM	Integrated Circuit	U9, U10	S0P65P49X110-3	ADG9188RM	2
PE432C2	Integrated Circuit	U9	QF50P40X400X9	PE4312C2	1