

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

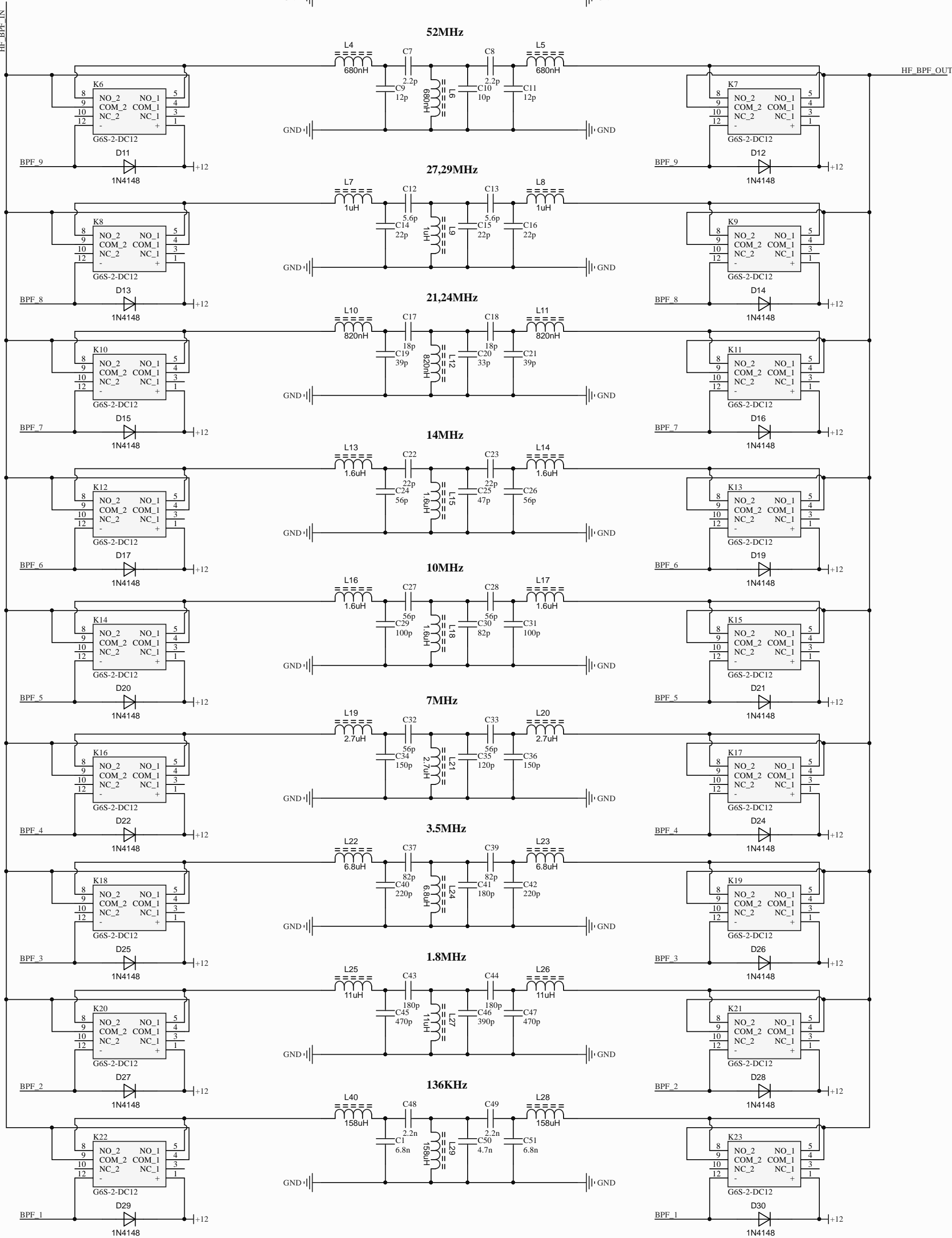
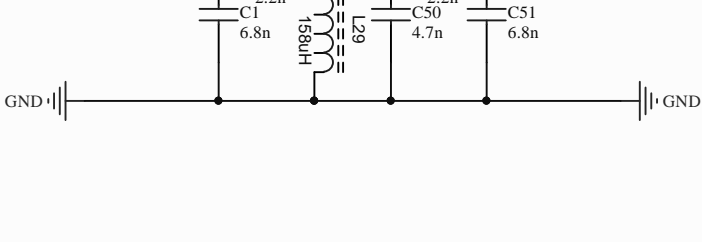
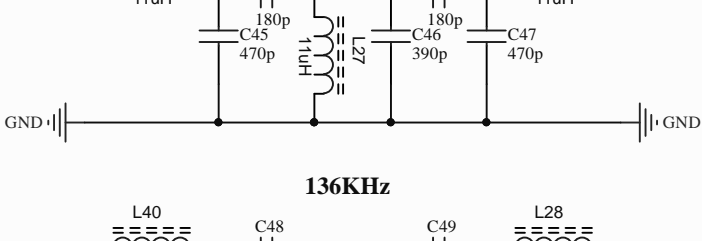
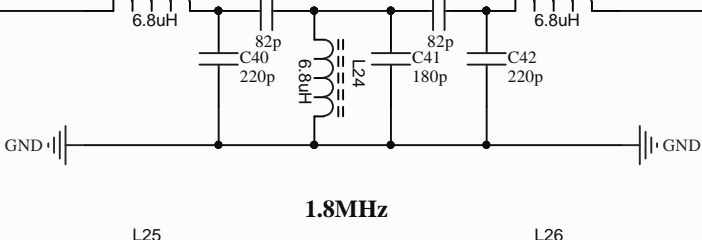
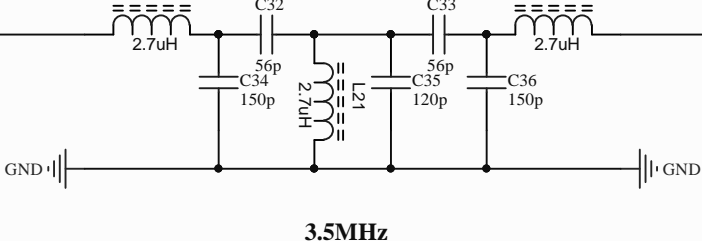
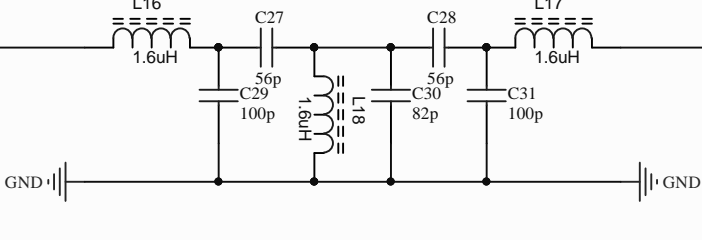
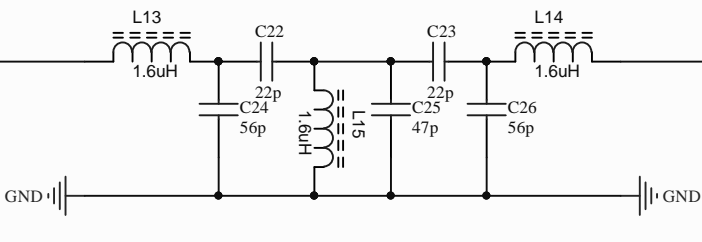
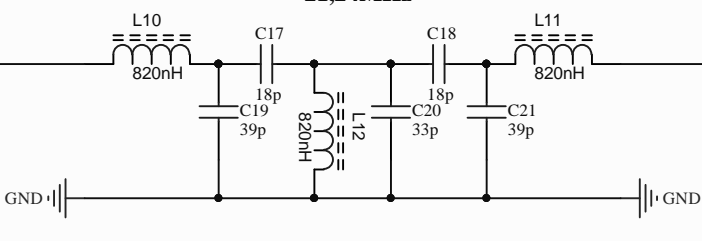
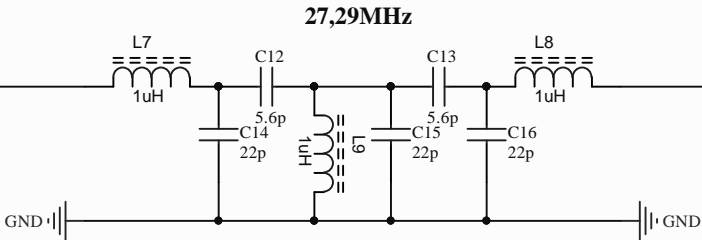
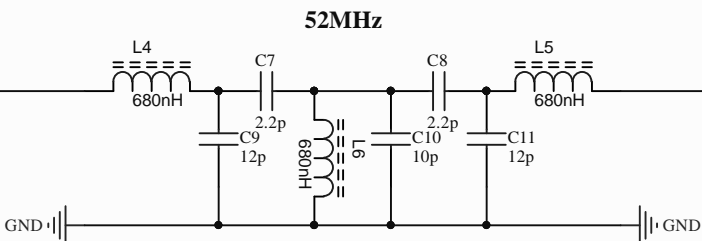
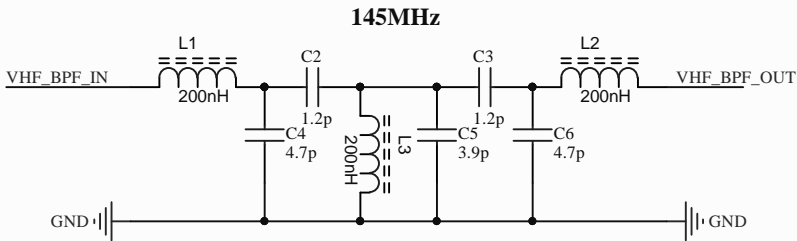
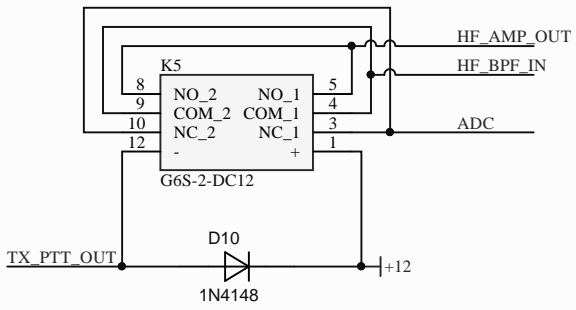
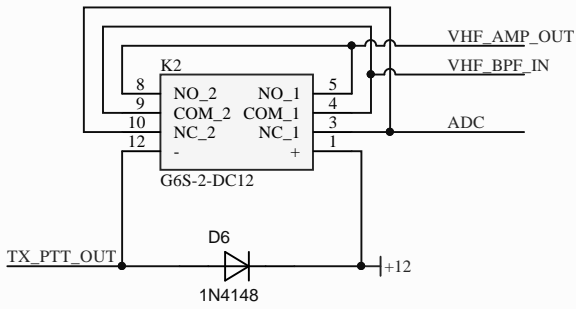
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HF\_TUNER.SchDoc

U\_BPF  
BPF.SchDoc

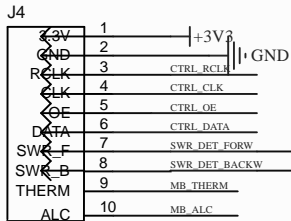
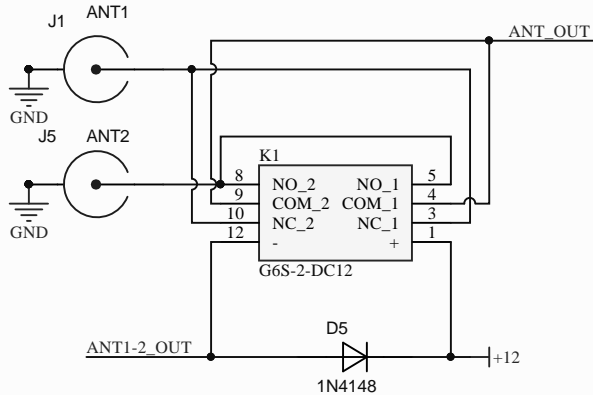
HF\_AMP\_DRIVER  
HF\_AMP\_DRIVER.SchDoc

VHF\_AMP  
VHF\_AMP.SchDoc

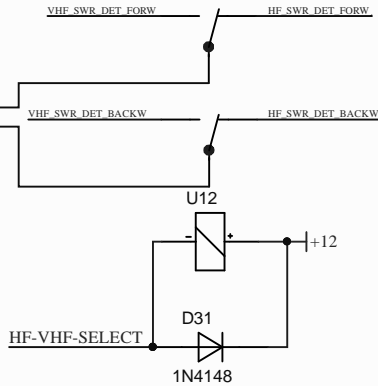
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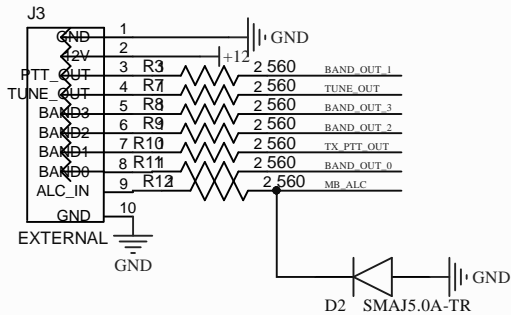
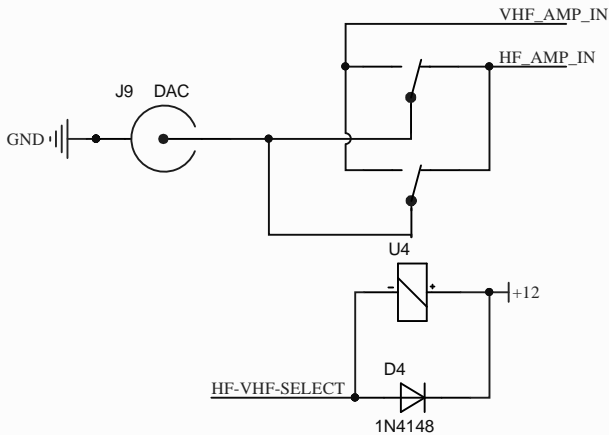
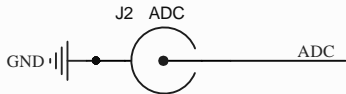
TXRX\_COMUTATOR



MOTHERBOARD



CONN



A

B

C

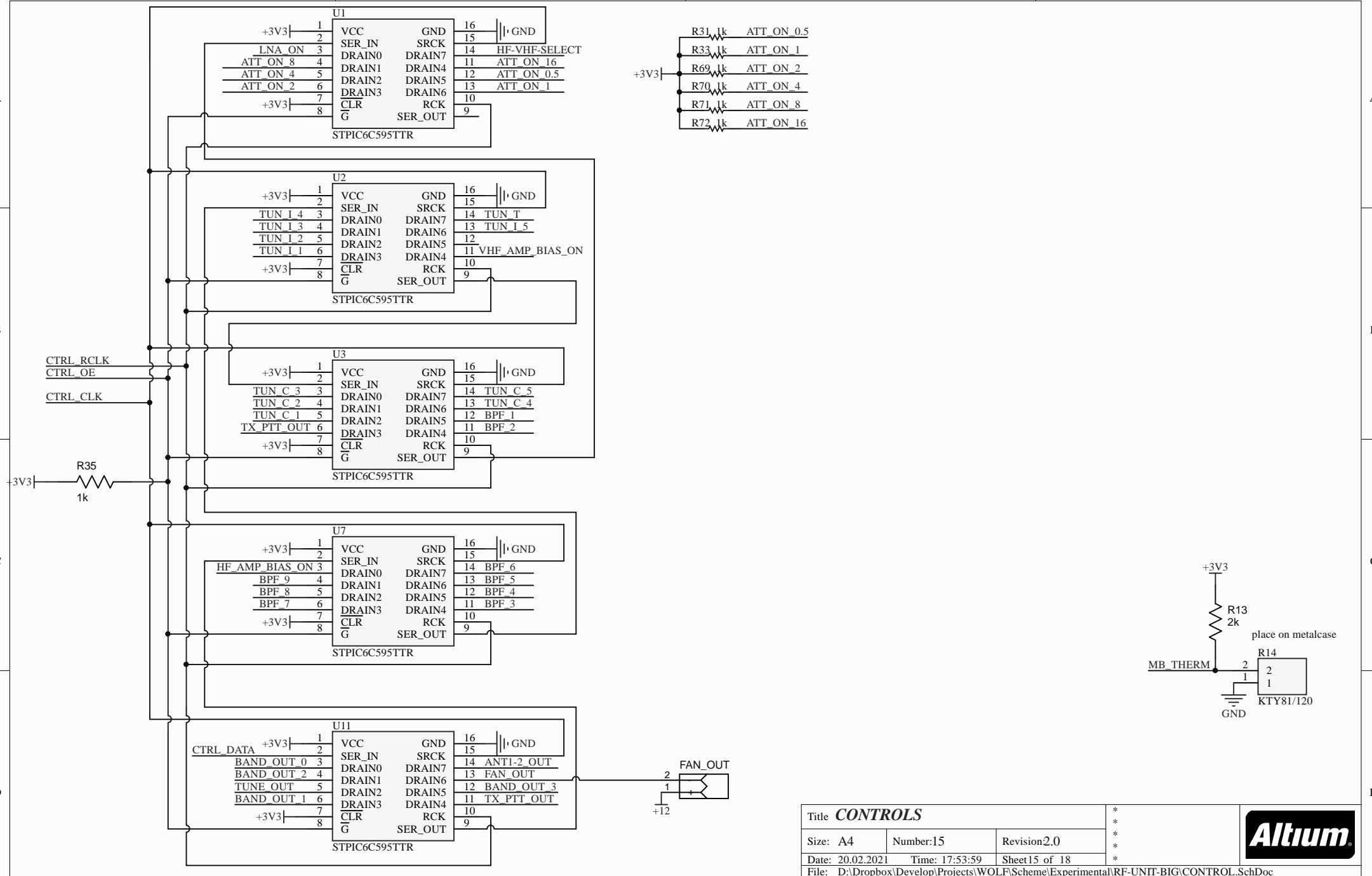
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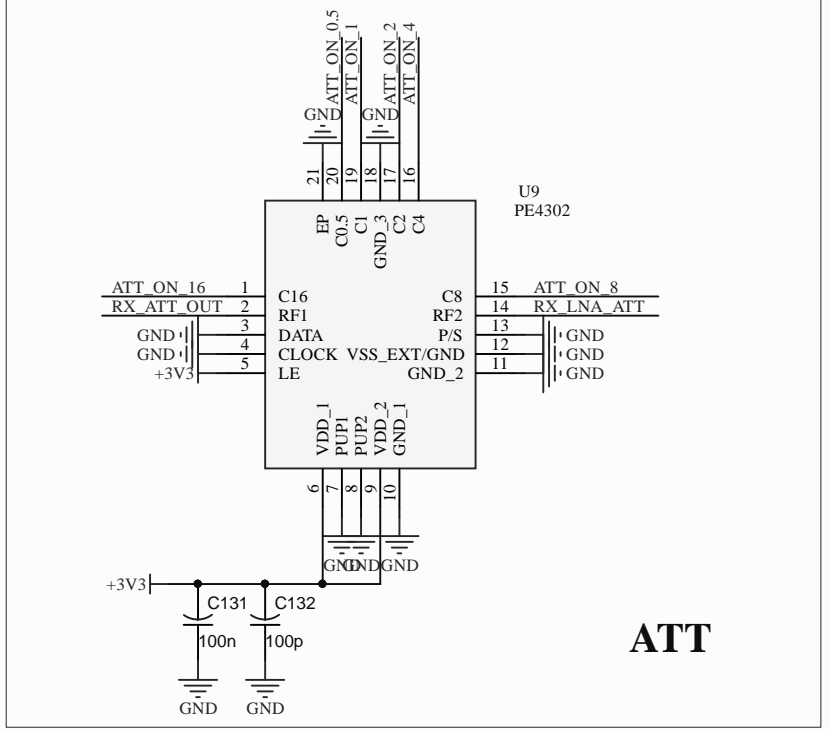
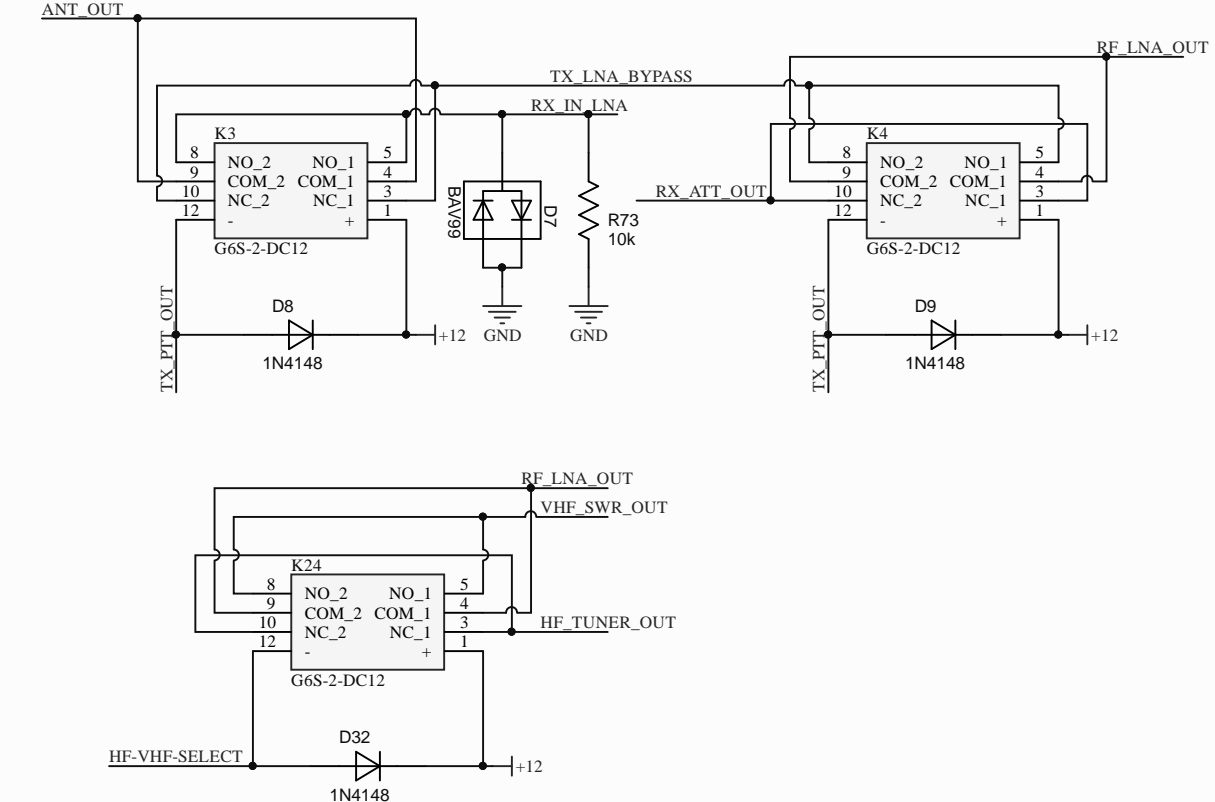
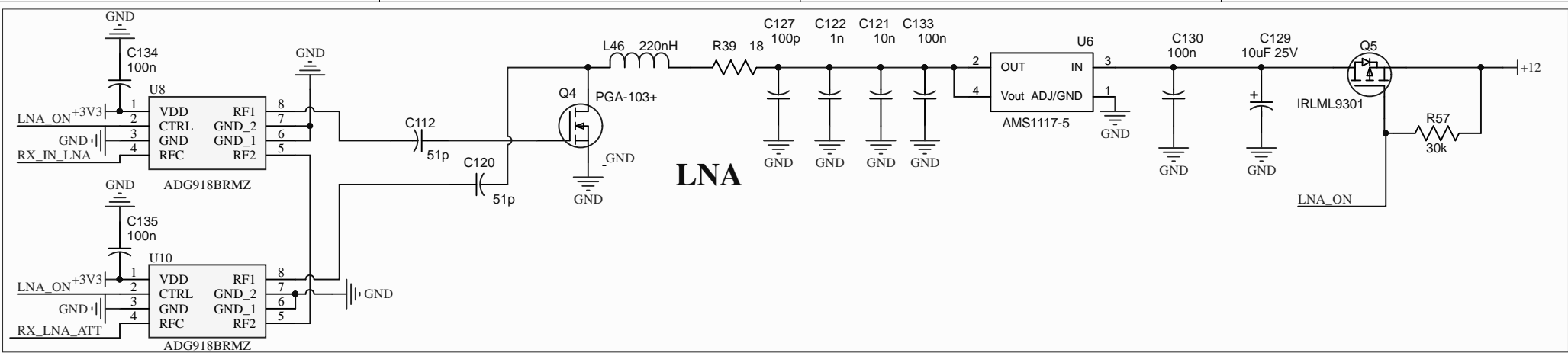
A

B

C

D

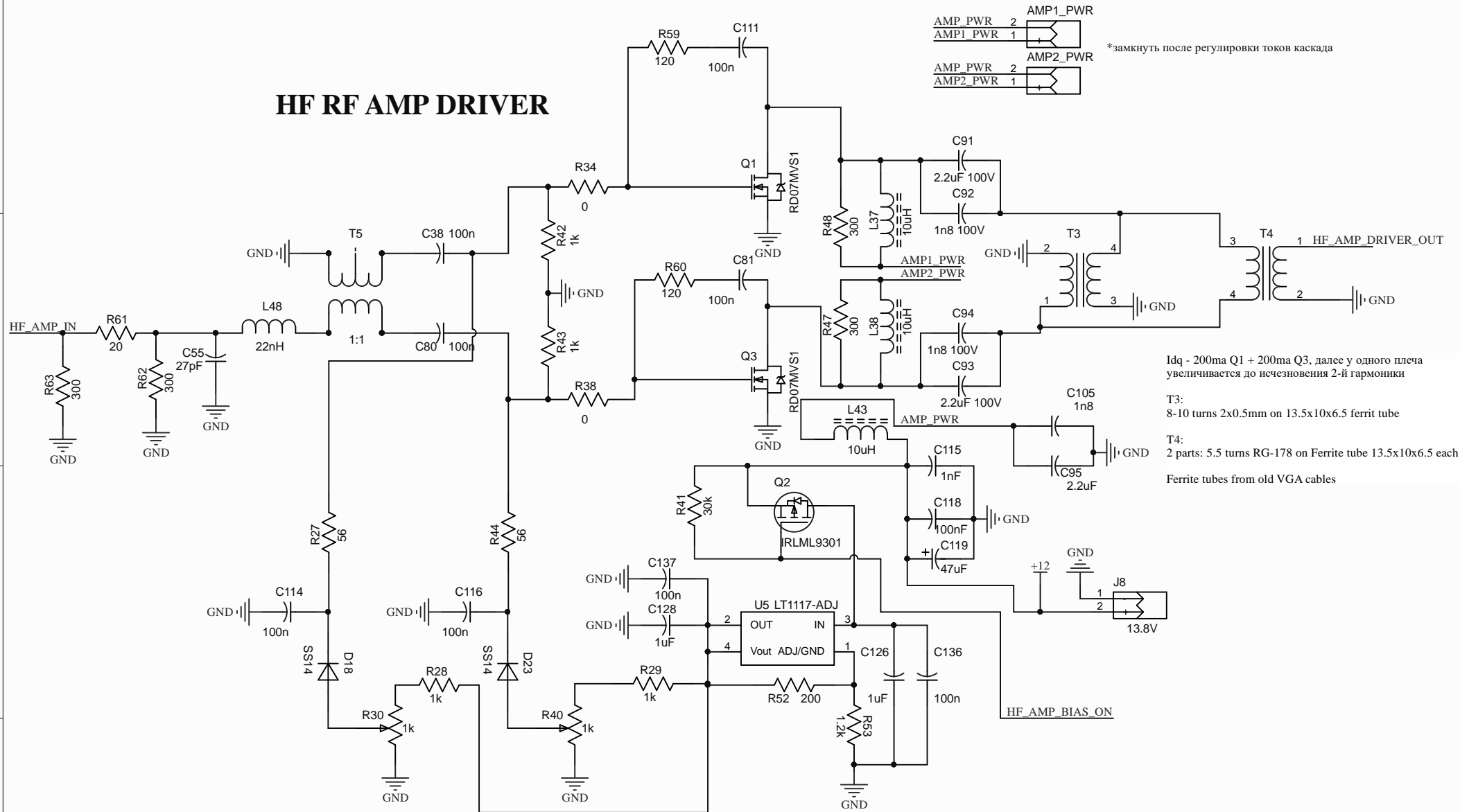




## A

C

# HF RF AMP DRIVER



Title **HF RF AMP DRIVER**

Size: A4

Number:17

Revision:2.0

Date: 20.02.2021

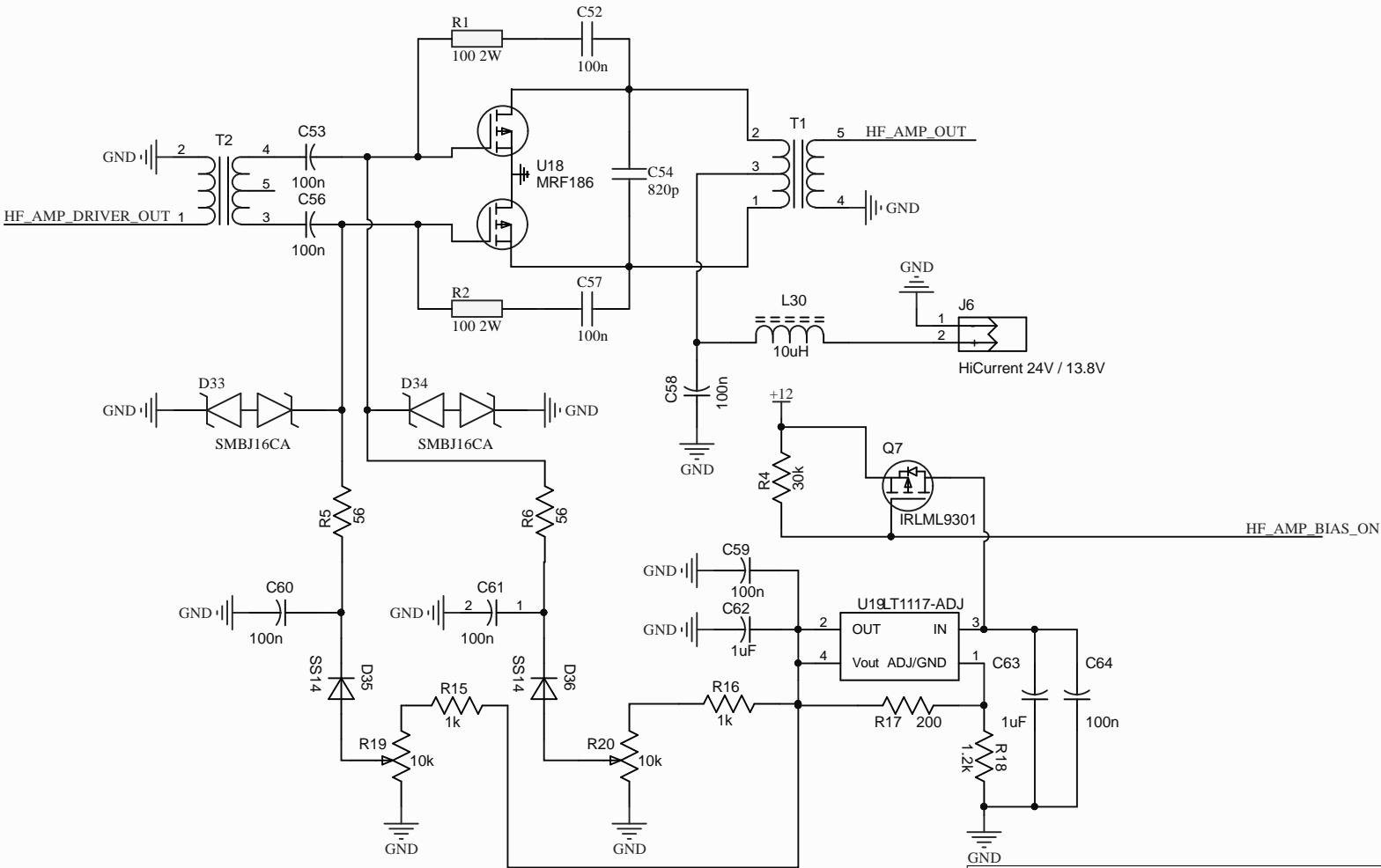
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Sheet 17 of 18

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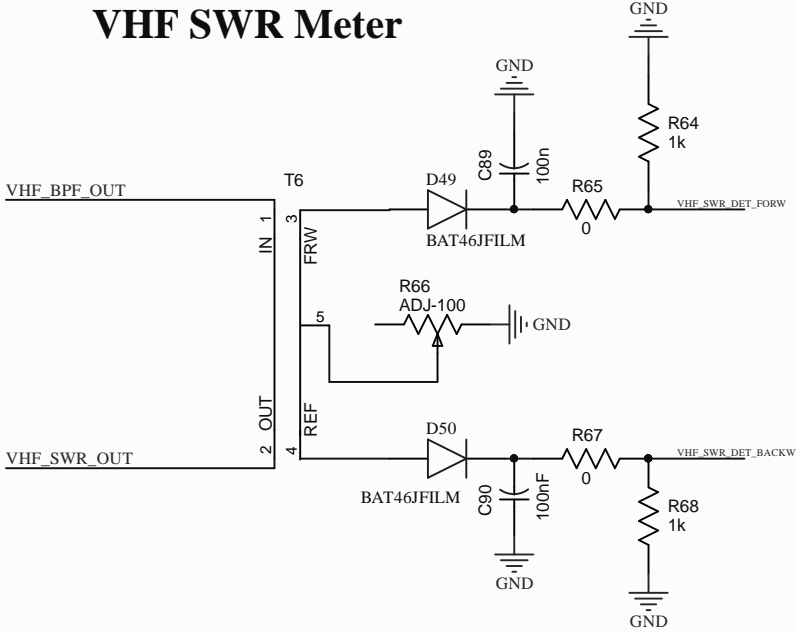


HF RF AMP

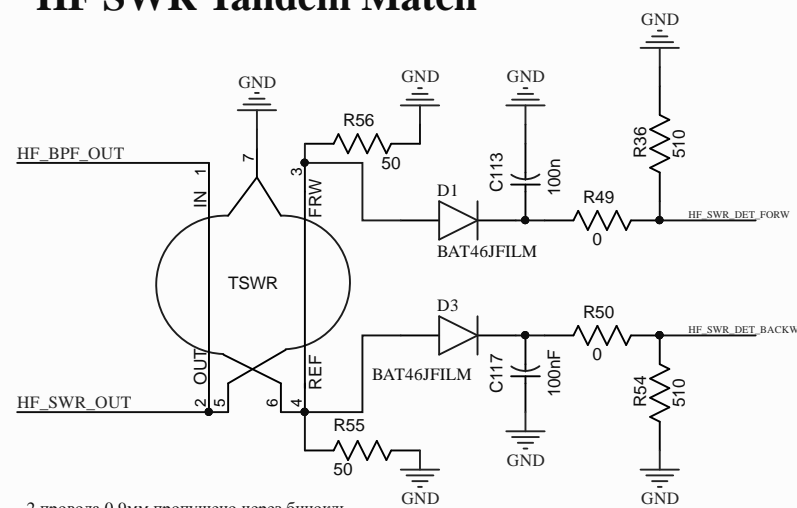




VHF SWR Meter



HF SWR Tandem Match



2 провода 0.9мм пропущено через бинокль  
по диагонали пропущено и намотано по 10 витков 0.5мм

## 4

4

Comment	Description	Designator	Footprint	LibRef	Quantity
51022-02B	51022-02B	AMP1_PWR_AMP2_	51022-02B	51022-02B	3
6.8n	Capacitor NPO HVOI	C1, C51	CAP_1206	B32620A0682.EIO	2
1.2p	Capacitor NPO HVOI	C2, C3	CAP_1206	B32620A0682.EIO	2
4.7p	Capacitor NPO HVOI	C4, C6	CAP_1206	B32620A0682.EIO	2
3.9p	Capacitor NPO HVOI	C5	CAP_1206	B32620A0682.EIO	1
2.2p	Capacitor NPO HVOI	C7, C8	CAP_1206	B32620A0682.EIO	2
12p	Capacitor NPO HVOI	C9, C11	CAP_1206	B32620A0682.EIO	2
10p	Capacitor NPO HVOI	C16	CAP_1206	B32620A0682.EIO	1
5.6p	Capacitor NPO HVOI	C12, C13	CAP_1206	B32620A0682.EIO	2
22p	Capacitor NPO HVOI	C14, C15, C16, C22	CAP_1206	B32620A0682.EIO	5
18p	Capacitor NPO HVOI	C17, C18	CAP_1206	B32620A0682.EIO	2
39p	Capacitor NPO HVOI	C19, C21	CAP_1206	B32620A0682.EIO	2
33p	Capacitor NPO HVOI	C20	CAP_1206	B32620A0682.EIO	1
56p	Capacitor NPO HVOI	C24, C26, C27, C28	CAP_1206	B32620A0682.EIO	6
47p	Capacitor NPO HVOI	C25	CAP_1206	B32620A0682.EIO	1
100p	Capacitor NPO HVOI	C29, C31	CAP_1206	B32620A0682.EIO	2
82p	Capacitor NPO HVOI	C30, C37, C39	CAP_1206	B32620A0682.EIO	3
150p	Capacitor NPO HVOI	C34, C36	CAP_1206	B32620A0682.EIO	2
120p	Capacitor NPO HVOI	C35	CAP_1206	B32620A0682.EIO	1
100p	CAP_0805	C38, C59, C60, C61	CAP_0805	CAP_0805	18
22p	Capacitor NPO HVOI	C40, C42	CAP_1206	B32620A0682.EIO	2
180p	Capacitor NPO HVOI	C43, C43, C44	CAP_1206	B32620A0682.EIO	2
470p	Capacitor NPO HVOI	C45, C47	CAP_1206	B32620A0682.EIO	2
390p	Capacitor NPO HVOI	C46	CAP_1206	B32620A0682.EIO	1
2.2n	Capacitor NPO HVOI	C48, C49	CAP_1206	B32620A0682.EIO	2
4.7n	Capacitor NPO HVOI	C50	CAP_1206	B32620A0682.EIO	1
100p	CAP_0805	C52, C57	B32620A0682.EIO	B32620A0682.EIO	5
100p	CAP_1206	C53, C56, C58, C61	CAP_1206	CAP_1206	5
820p	Capacitor	C54	B32620A0682.EIO	B32620A0682.EIO	1
27p	CAP_0805	C55	CAP_0805	CAP_0805	1
1uF	CAP_0805	C62, C63, C79, C83	CAP_0805	CAP_0805	6
0.5-30pF	TZCP300A10	C65, C66	502520101	CAP_0805	2
100uF	CAP_0805	C67, C71, C76, C90	CAP_0805	CAP_0805	6
120pF	CAP_0805	C68, C73	CAP_0805	CAP_0805	2
10n	CAP_1206	C69	CAP_1206	CAP_1206	1
4.7n	CAP_0805	C70, C75	CAP_0805	CAP_0805	2
100pF	CAP_0805	C72	CAP_0805	CAP_0805	1
22pF	CAPAE, 0.6w, 6H54	C74, C77	CAPAE, 0.6w, 6H54	CAPAE, 0.6w, 6H54	2
10p	Capacitor	C84	B32620A0682.EIO	B32620A0682.EIO	1
22p	Capacitor	C85	B32620A0682.EIO	B32620A0682.EIO	1
47p	Capacitor	C86	B32620A0682.EIO	B32620A0682.EIO	1
100p	Capacitor	C87	B32620A0682.EIO	B32620A0682.EIO	1
220p	Capacitor	C88	B32620A0682.EIO	B32620A0682.EIO	1
2.2uF 100V	CAP_1206	C91, C93	CAP_1206	CAP_1206	2
1n8 100V	CAP_1206	C92, C94	CAP_1206	CAP_1206	2
2.2F	CAP_1206	C95	CAP_1206	CAP_1206	1
100pF	Capacitor NPO HVOI	C96, C97, C98, C99	CAP_1206	B32620A0682.EIO	5
1n8	CAP_1206	C105	CAP_1206	CAP_1206	1
51p	CAP_0805	C112, C120	CAP_0805	CAP_0805	2
1uF	CAP_0805	C115	CAP_0805	CAP_0805	1
1uF	CAP_0805	C119	CAPAE, 0.6w, 6H54	CAPAE, 0.6w, 6H54	1
10n	CAP_0805	C121	0-0805, M	CAP_0805	1
1n	CAP_0805	C122	0-0805, M	CAP_0805	1
100p	CAP_0805	C127, C132	0-0805, M	CAP_0805	2
10uF 25V	CAPAE, 5.36, 3H61	C129	CAPAE, 5.36, 3H61	CAPAE, 5.36, 3H61	1
100p	Diode	C131	0-0805, M	CAP_0805	1
BAT44,F,LM	Diode	D1, D2, D49, D50	5002513X117N	BAT44,F,LM	4
5MM6,0A,TR	Diode	D2	5MM6,0A,TR	5MM7V3Y	1
1N4148	1N4148	D4, D5, D6, D9, D31	1N4148	1N4148	17
1N4148	1N4148	D6, D10, D11, D12, D	1N4148	1N4148	20
BAV99	SSW	D102, D13, D35, D36	SSW	BAV99	5
55W	SSW	D102, D13, D35, D36	SSW	SSW	5
SMBJ76CA	TVS Diode (Bi-directed)	D33, D34	DI00M643x261N	SMBJ76CA	2
FERRITE BEAD	IND, FERRITE, BEAD	F1, F2	RES	IND, FERRITE, BEAD	2
ANT1	SMA	J1	31-543	31-543	1
ADC	275 PIN	J2	31-543	31-543	1
EXTERNAL	275 PIN	J2	90T31-01A	90T31-01A	1
MOTHERBOARD	275 PIN	J2	90T31-01A	90T31-01A	1
ANT2	SMA	J5	31-543	31-543	1
RCURRENT 24V / 13	R2	J6	19867172	19867172	1
RCURRENT 13.5V	R2	J7	19867172	19867172	1
13.5V	R2	J8	19867172	19867172	1
DAC	SMA	J9	31-543	31-543	1
G65-2-DC12	Relay or Contactor	K1, K2, K3, K4, K5,	G65-2-DC12	G65-2-DC12	35
200nH	Inductor	L1, L2, L3	IND, FERRITE, CORE	IND, FERRITE, CORE	3
880nH	Inductor	L4, L5, L6	IND, FERRITE, CORE	IND, FERRITE, CORE	2
1uH	Inductor	L7, L8, L9, L4	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, L20	IND, FERRITE, CORE	IND, FERRITE, CORE	3
6.8uH	Inductor	L22, L23, L20	IND, FERRITE, CORE	IND, FERRITE, CORE	3
11uH	Inductor	L25, L26, L20	IND, FERRITE, CORE	IND, FERRITE, CORE	3
150uH	Inductor	L28, L29, L40	IND, FERRITE, CORE	IND, FERRITE, CORE	3
10uH	Inductor	L30, L37, L38, L46	IND, FERRITE, CORE	IND, FERRITE, CORE	4
10uH	IND, 1206	L39	IND, 1206	IND, 1206	1
0.2uH	Inductor	L32, L33, L30	IND, 0805	IND, 0805	1
0.1uH	Inductor	L36	IND, FERRITE, CORE	IND, FERRITE, CORE	1
0.22uH	Inductor	L38	IND, FERRITE, CORE	IND, FERRITE, CORE	1
0.45uH	Inductor	L39	IND, FERRITE, CORE	IND, FERRITE, CORE	1
2.2uH	Inductor	L40	IND, FERRITE, CORE	IND, FERRITE, CORE	1
220nH	IND, 1206	L41	IND, 1206	IND, 1206	1
220H	IND, 0805	L48	IND, 0805	IND, 0805	1
RD07M/MS1	RD07M/MS1	Q1, Q2	RD07M/MS1	RD07M/MS1	2
RLM 9301	MOSFET	Q2, Q2, Q7, Q10	50T23	MOSFET, ENH, PD	4
PGA103	MOSFET	Q4	50T69	PGA103	1
BA0DH1415MR	BA0DH1415MR	Q9	BA0DH1415MR	BA0DH1415MR	1
RD01M/MS1	RD01M/MS1	Q9	50T89	RD01M/MS1	1
100.2W	CFR200J100R	R1, R2	RES-2W	CFR200J100R	2
560	RES, 0805	R3, R7, R8, R9, R10	RES, 0805	RES, 0805	7
20k	RES, 0805	R4, R41, R45, R57	RES, 0805	RES, 0805	2
5k	RES, 0805	R5, R6, R26, R27, R6	RES, 0805	RES, 0805	4
2k	RES, 0805	R13	RES, 0805	RES, 0805	1
KTY81/120	Integrated Circuit	R14	TQ254P420X460X	KTY81-120	1
1k	RES, 0805	R15, R16, R28, R29	RES, 0805	RES, 0805	9
20k	RES, 0805	R17, R52, L20	RES, 0805	RES, 0805	2
1.2k	RES, 0805	R18, R53	RES, 0805	RES, 0805	2
ADJ10k	306J	R19, R20	306J	306J	2
R20	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, R47, R48	RES, 1206	RES, 1206	6
ADJ1k	306J	R30, R40, R46	306J	306J	3
1k	RES, 0805	R31, R33, R69, R70	RES, 2013X60X40N	LCMP-2001-00626-1	6
6.8k	RES, 0805	R32	RES, 0805	RES, 0805	1
0	RES, 1206	R34, R38	RES, 1206	RES, 1206	2
510	RES, 0805	R36, R54	RES, 0805	RES, 0805	2
2.2k	RES, 0805	R37	RES, 0805	RES, 0805	1
18	RES, 1206	R39	RES, 1206	RES, 1206	1
0	RES, 0805	R49, R50, R65, R67	RES, 0805	RES, 0805	4
100	RES, 1206	R51	RES, 0805	RES, 0805	1
50	RES, 1206	R55, R56	RES, 1206	RES, 1206	2
620	RES, 0805	R58	RES, 0805	RES, 0805	1
120	RES, 1206	R59, R60	RES, 1206	RES, 1206	2
ADJ100	306J	R66	306J	306J	1
1k	RES, 1206	R73	RES, 1206	RES, 1206	1
TRANSF_HF2	TRANSF_HF2	T1	TRANSF_HF2	TRANSF_HF2	1
TRANSF_ICORE	TRANSF_ICORE	T2	TRANSF_HF1	TRANSF_HF1	1
BT M2000HM10*6*5	Transformer	T3	Ruist	TRANSF_ICORE	1
TRANSF_ICORE	TRANSF_ICORE	T4	TRANSF_ICORE	TRANSF_ICORE	1
1.1	TRANSF_ICORE2	T5	TRANSF_ICORE2	TRANSF_ICORE2	1
SWR_VHF	SWR_VHF	T6	SWR_VHF	SWR_VHF	1
SWR_TANGUM,MT0	SWR_TANGUM,MT0	TSWR	SWR_TANGUM,MT0	SWR_TANGUM,MT0	1
STP6C65951TR	Integrated Circuit	U1, U2, U3, U7, U11	SOP65P40X120-14	STP6C65951TR	5
Assem IM66	Assem IM66	U12	IM66GR	Assem IM66	2
L11111JST1-ADJ	L11111JST1-ADJ	U5, U9, U20	L11111JST1-ADJ	L11111JST1-ADJ	3
AM61117-5	AM61117-5	U6	AM61117-5	AM61117-5	1
AUGV18BRM2	Integrated Circuit	U8, U10	SOP65P40X110-8	AUGV18BRM2	2
PE43P2	Integrated Circuit	U9	QFN50P40X40X0.8	PE4312C2	1
MBT186	MBT186	U18	MBT186	MBT186	1