


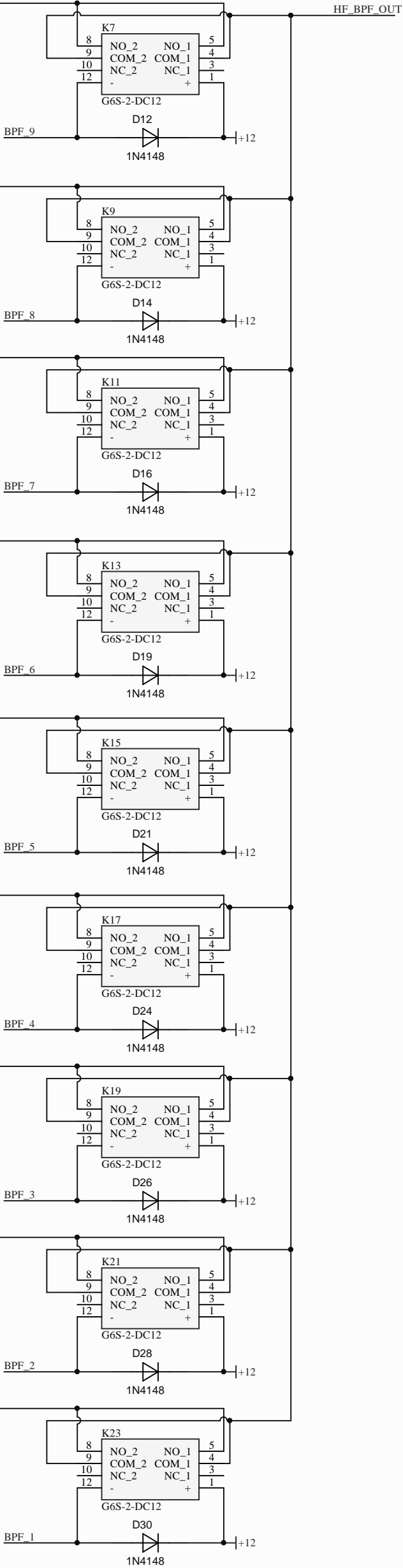
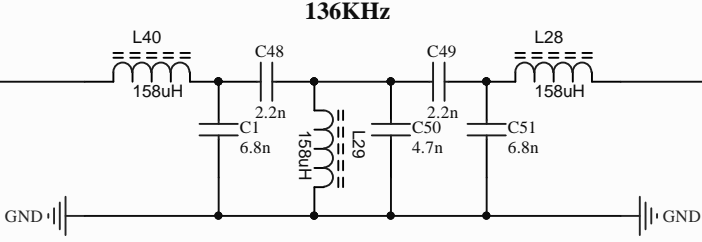
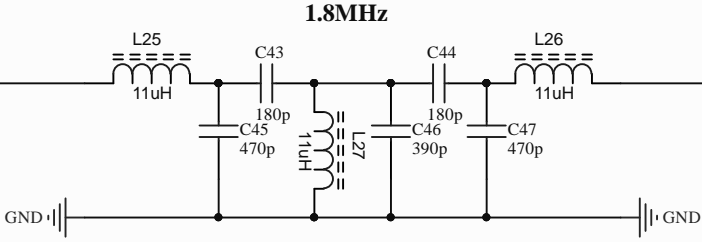
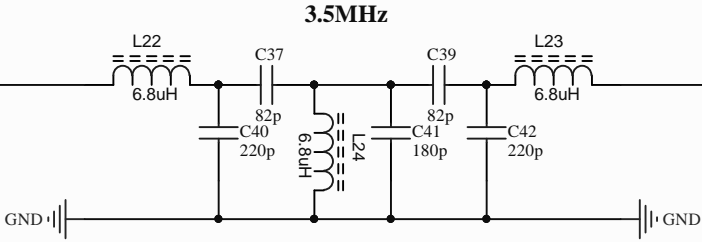
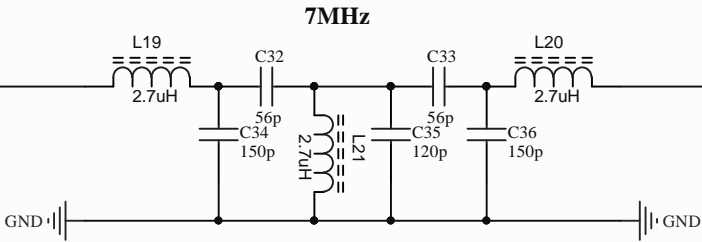
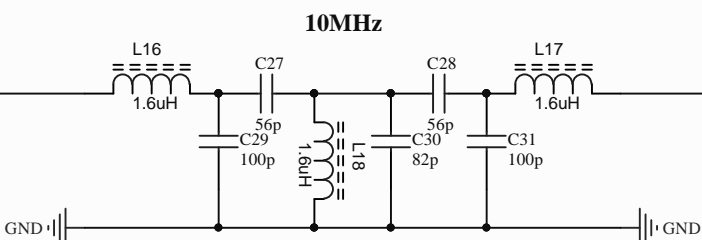
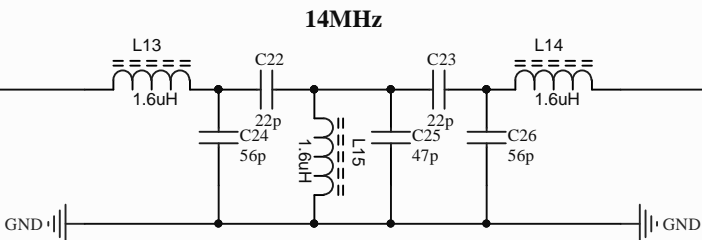
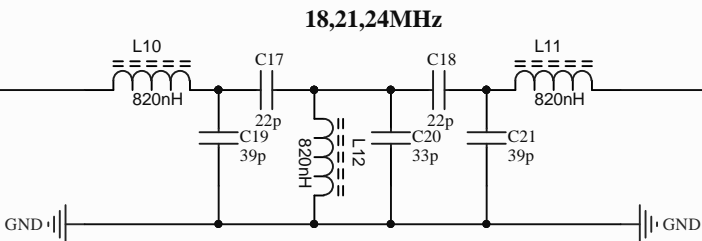
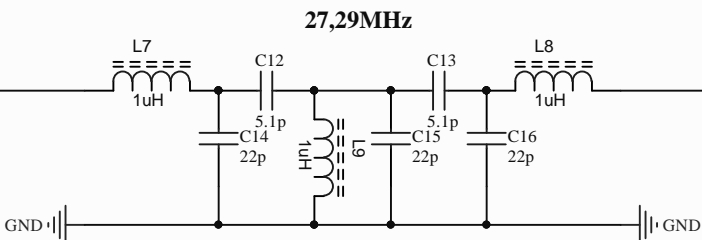
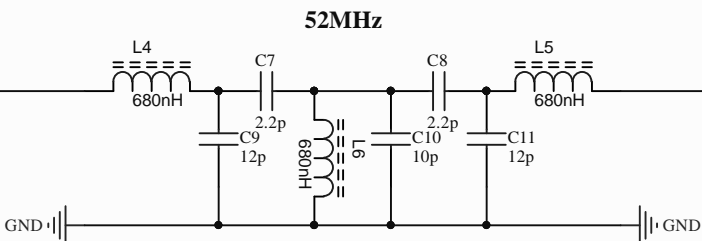
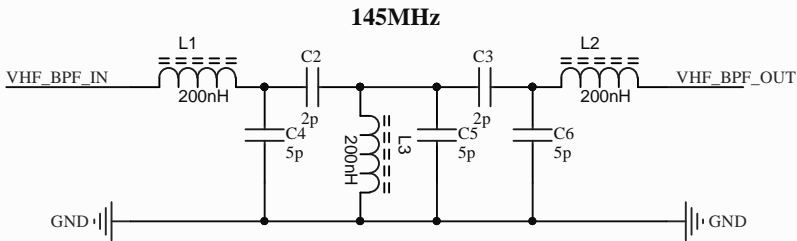
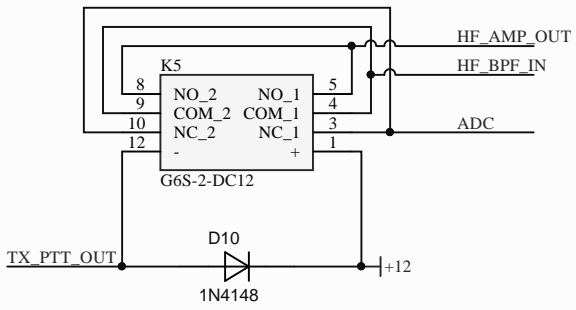
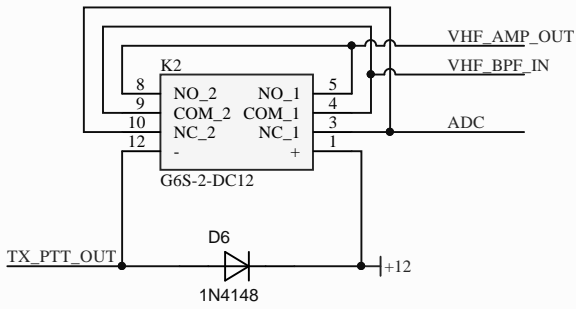
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LNA.SchDocU_BPF
BPF.SchDocSWR_HF
SWR_HF.SchDocSWR_VHF
SWR_VHF.SchDoc

HF_AMP_DRIVER
HF_AMP_DRIVER.SchDoc

U_CONTROL
CONTROL.SchDocHF_AMP
HF_AMP.SchDocVHF_AMP
VHF_AMP.SchDocHF_TUNER
HF_TUNER.SchDoc

Title RF-UNIT BIG			
Size: A4	Number:12	Revision2,0	
Date: 04.04.2021	Time: 21:45:59	Sheet12 of 18	
File: D:\Dropbox\Develop\Projects\WOLF\Scheme\Experimental\RF-UNIT-BIG\RF-UNIT-BIG.SCHDOC			

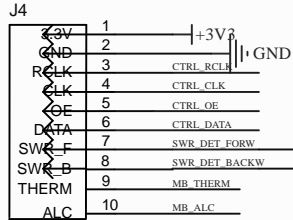
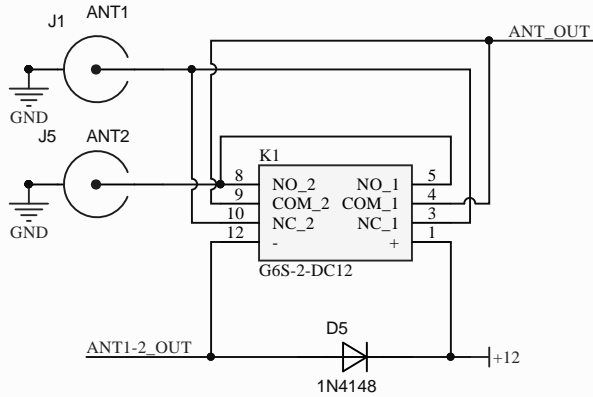
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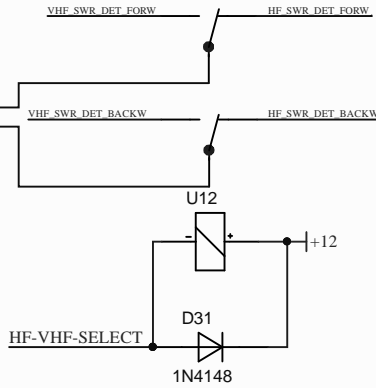
0.5mm cord
2200m - 158uH - M1000HM3-5 K16*10*4,5 - 19.5 turns
160m - 11uH - T68-2 - 44 turns
80m - 6.8uH - T68-2 - 35 turns
40m - 2.7uH - T68-2 - 22 turns
30m - 1.6uH - T68-2 - 17 turns
20m - 1.6uH - T68-2 - 17 turns
17,15,12m - 820nH - T68-2 - 12 turns
CB,10m - 1uH - T68-2 - 13 turns
6m - 680nH - T50-6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



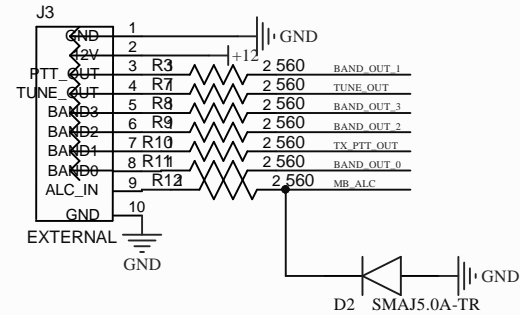
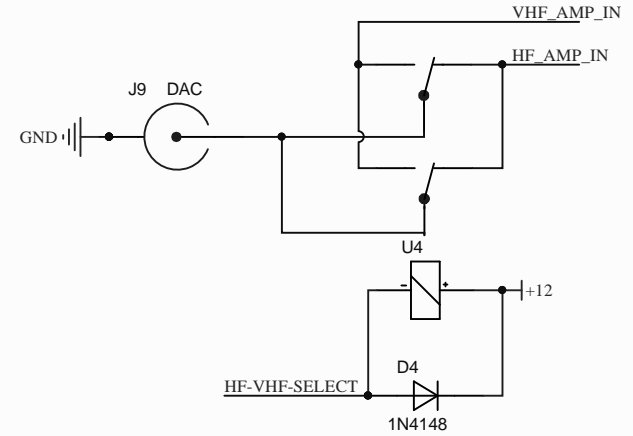
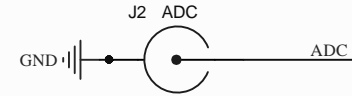
TXRX_COMUTATOR

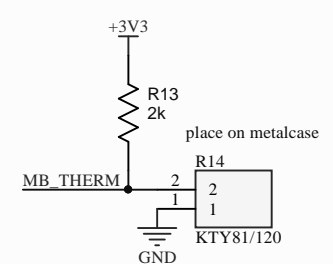
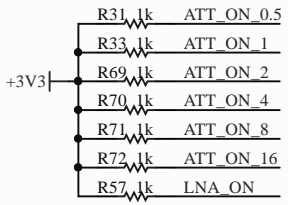
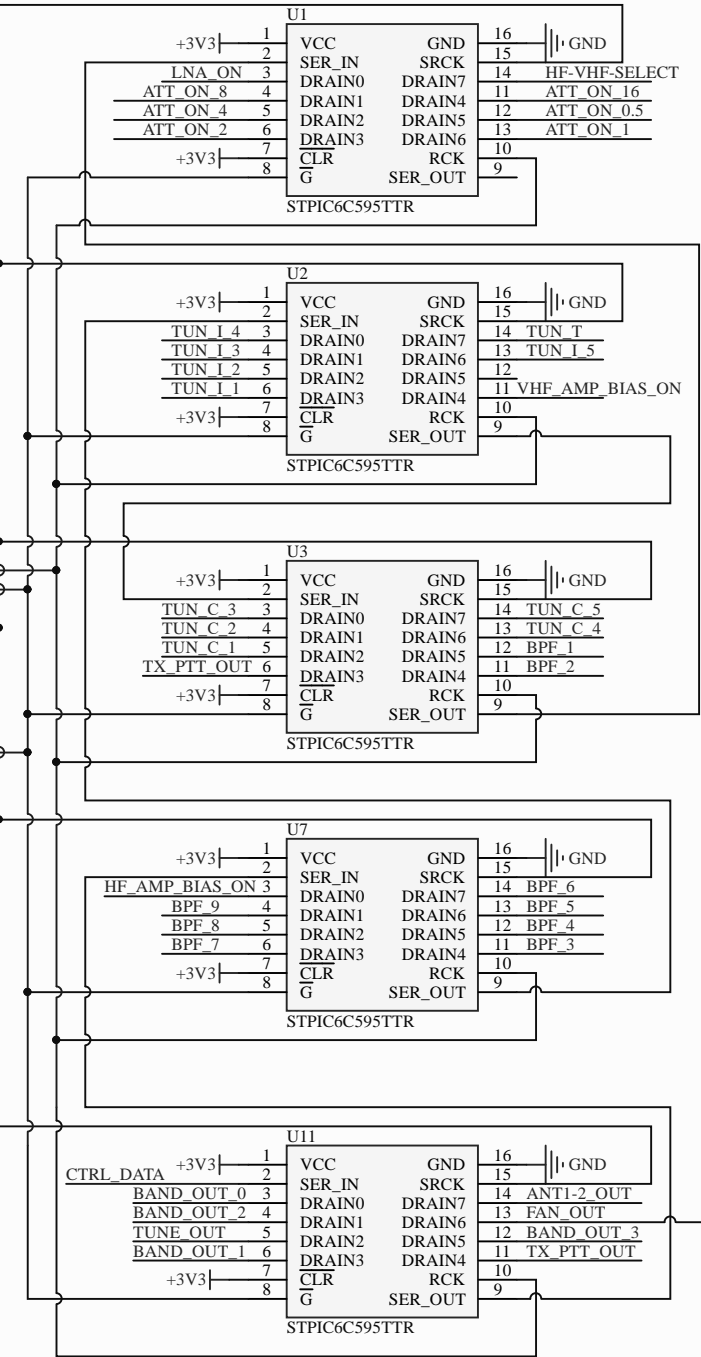


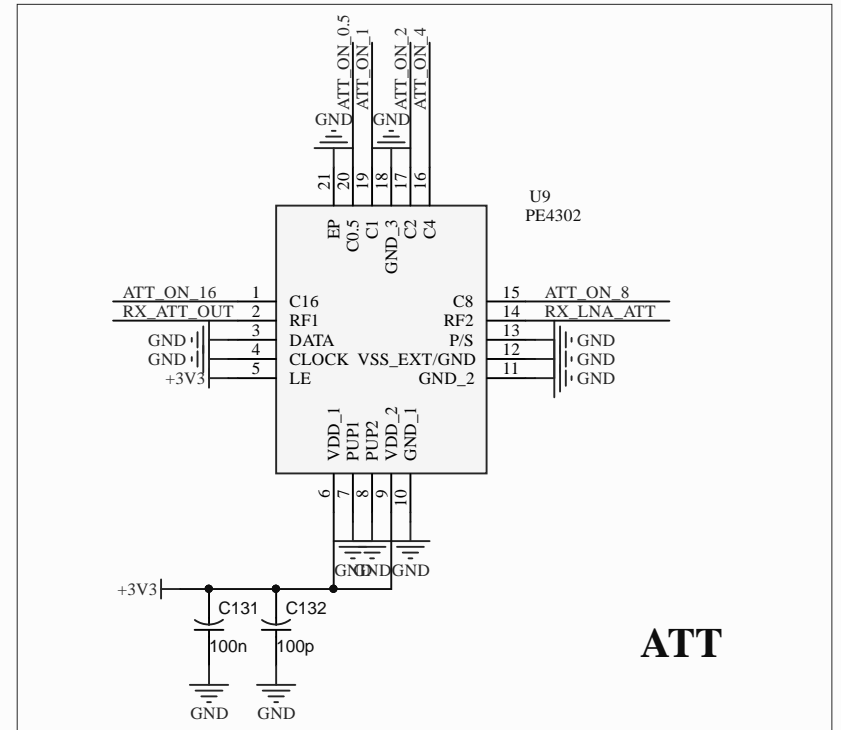
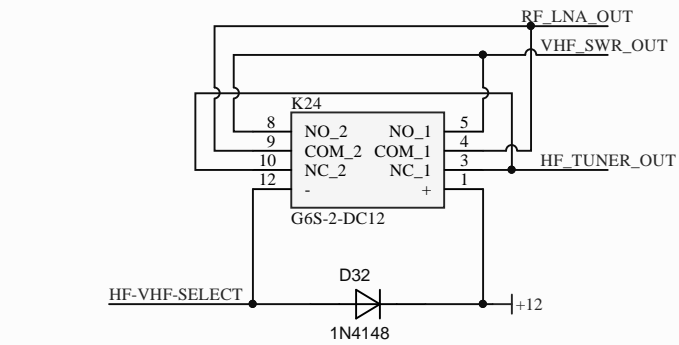
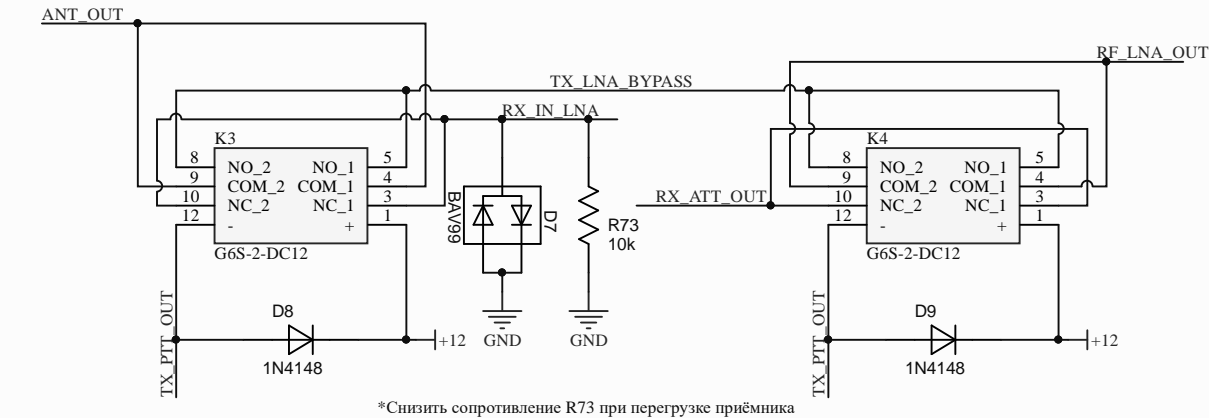
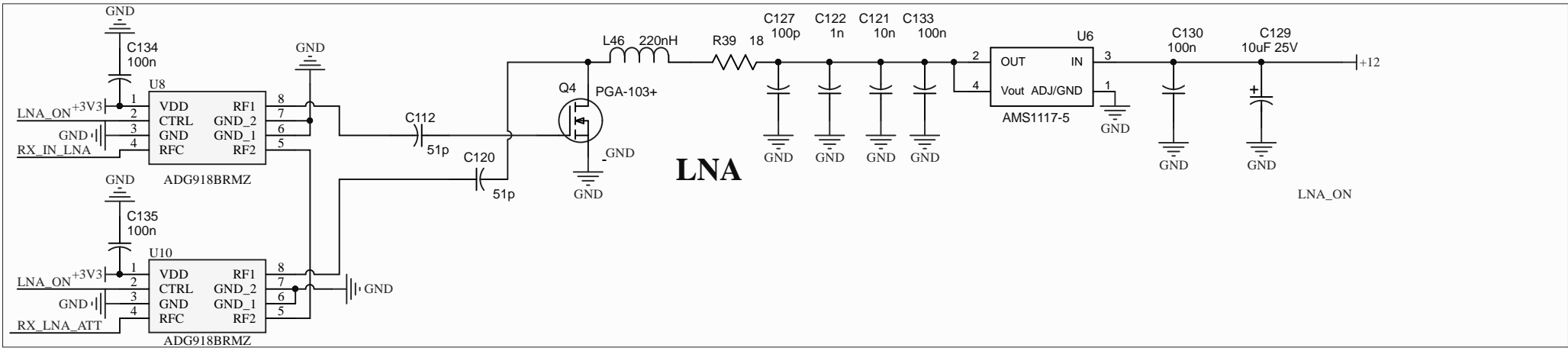
MOTHERBOARD



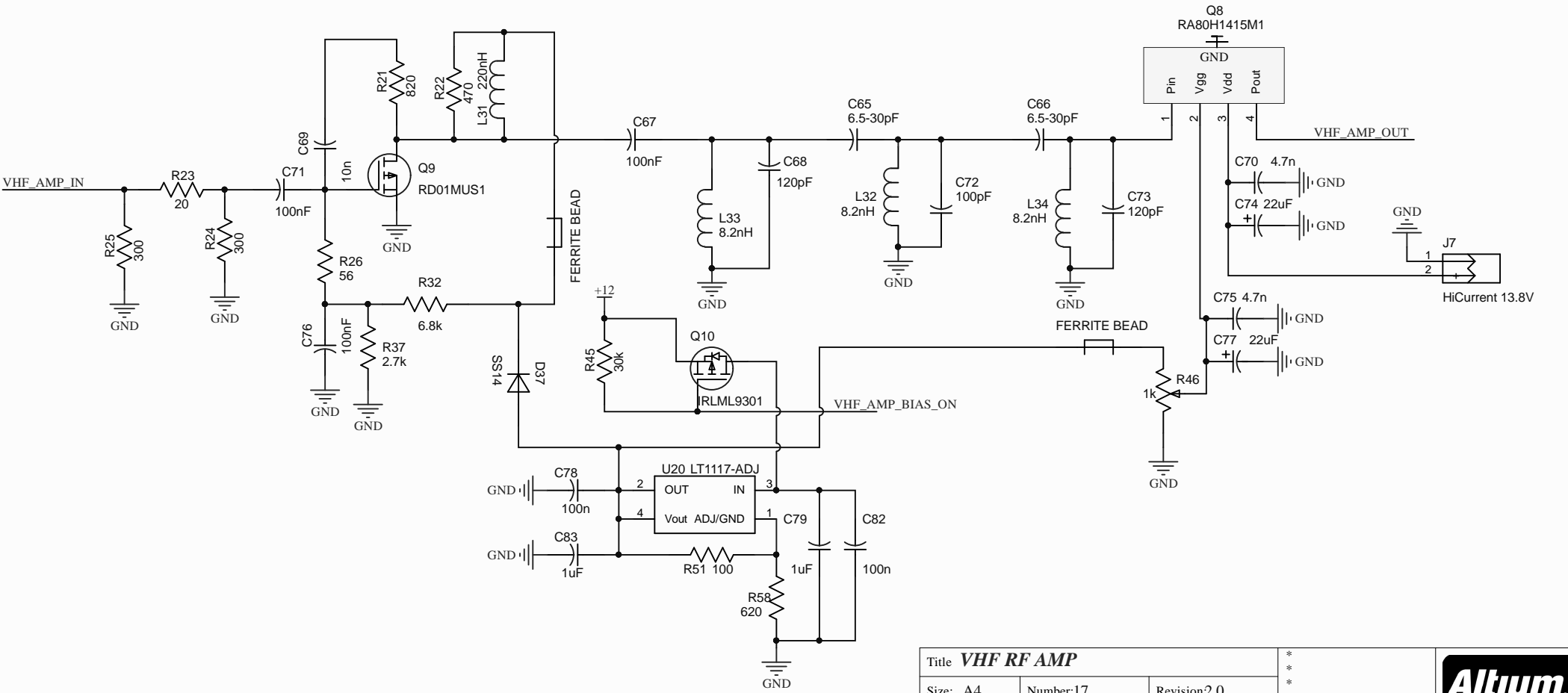
CONN



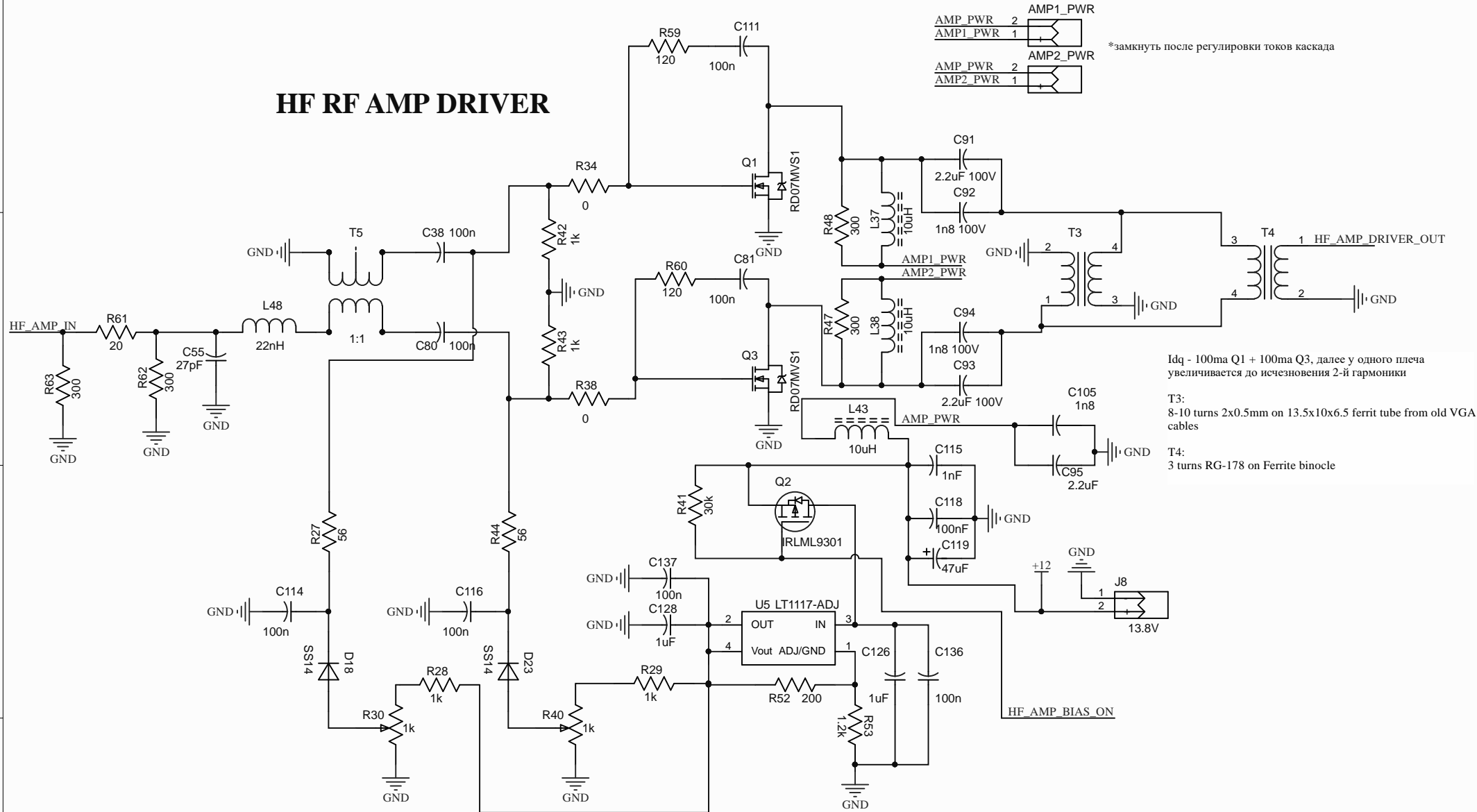




VHF RF AMP



HF RF AMP DRIVER



Title **HF RF AMP DRIVER**

Size: A4

Number:17

Revision:2.0

Date: 04.04.2021

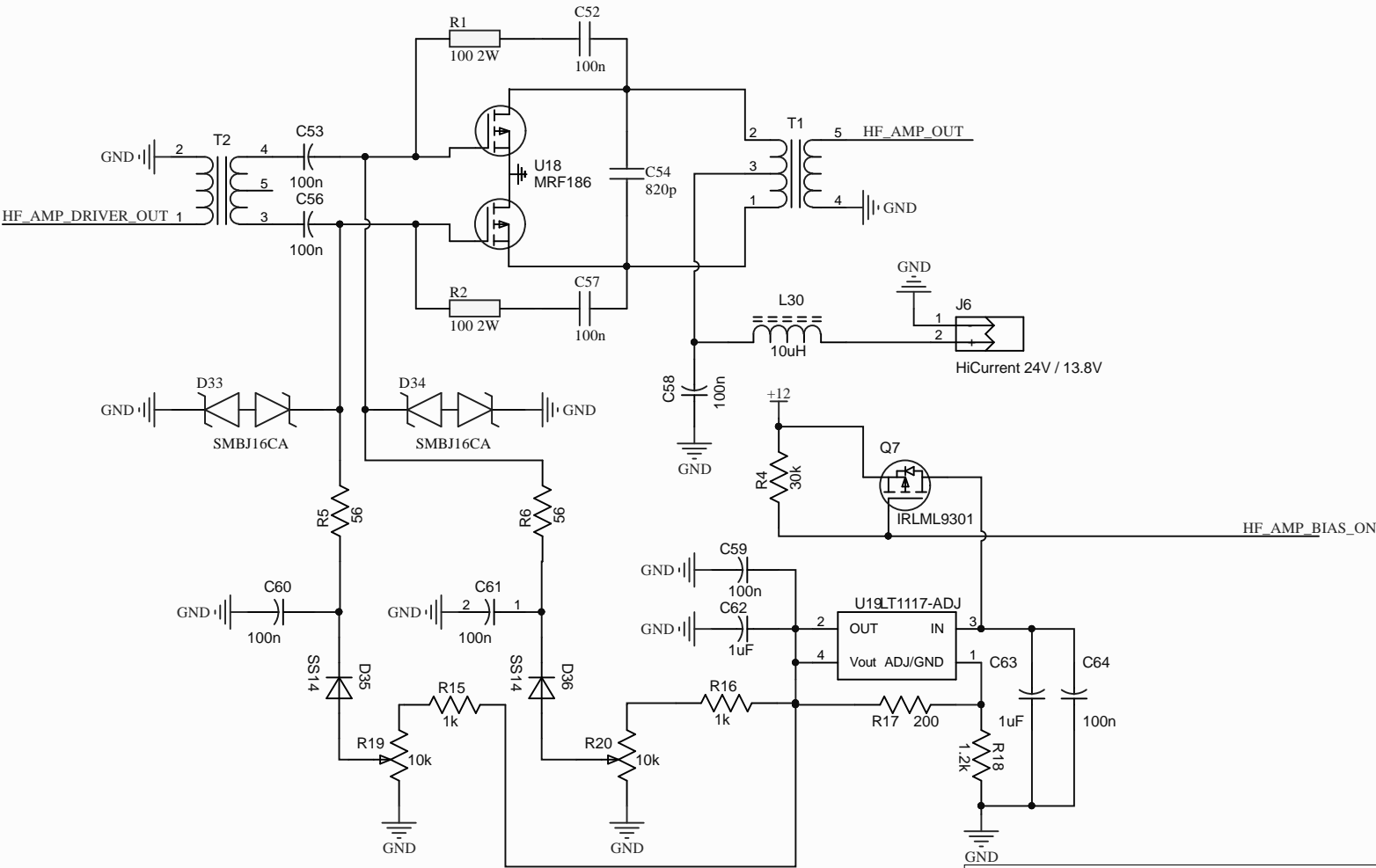
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Sheet 17 of 18

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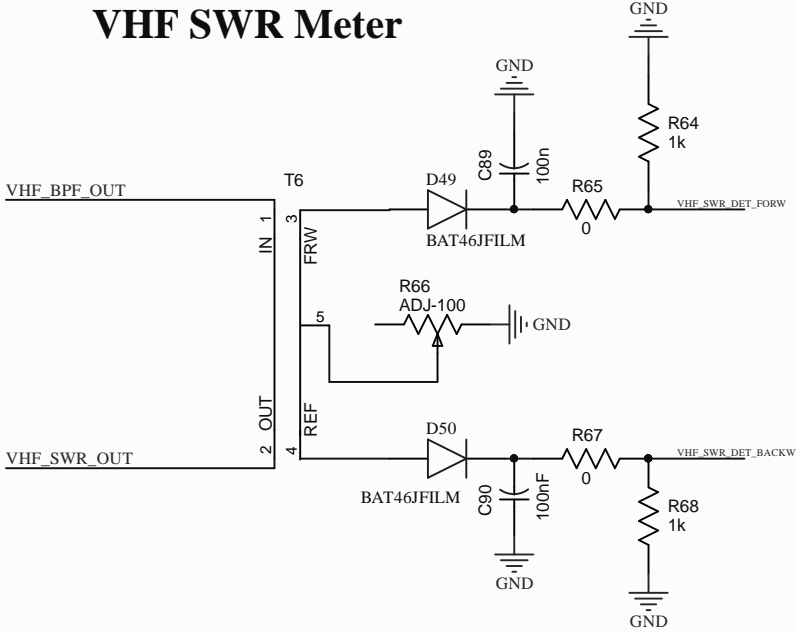


HF RF AMP

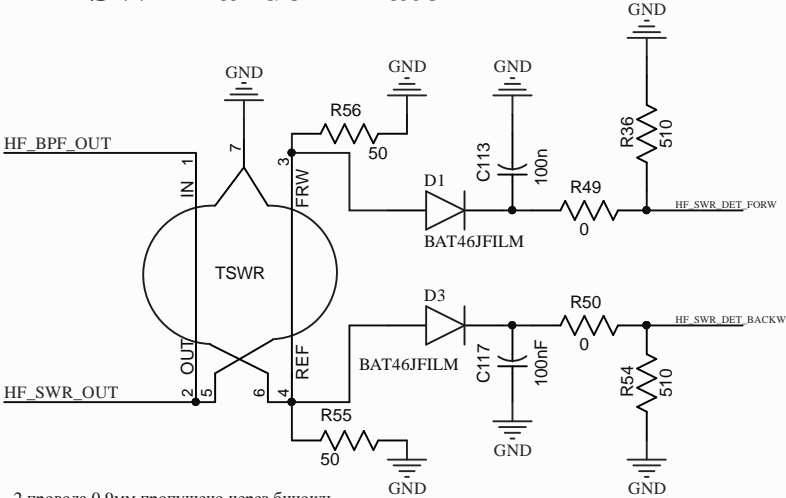


Title HF RF AMP			
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Date: 04.04.2021	Time: 21:46:01	Sheet17 of 18	
File: D:\Dropbox\Develop\Projects\WOLF\Scheme\Experimental\RF-UNIT-BIG\HF_AMP.SchDoc			

VHF SWR Meter

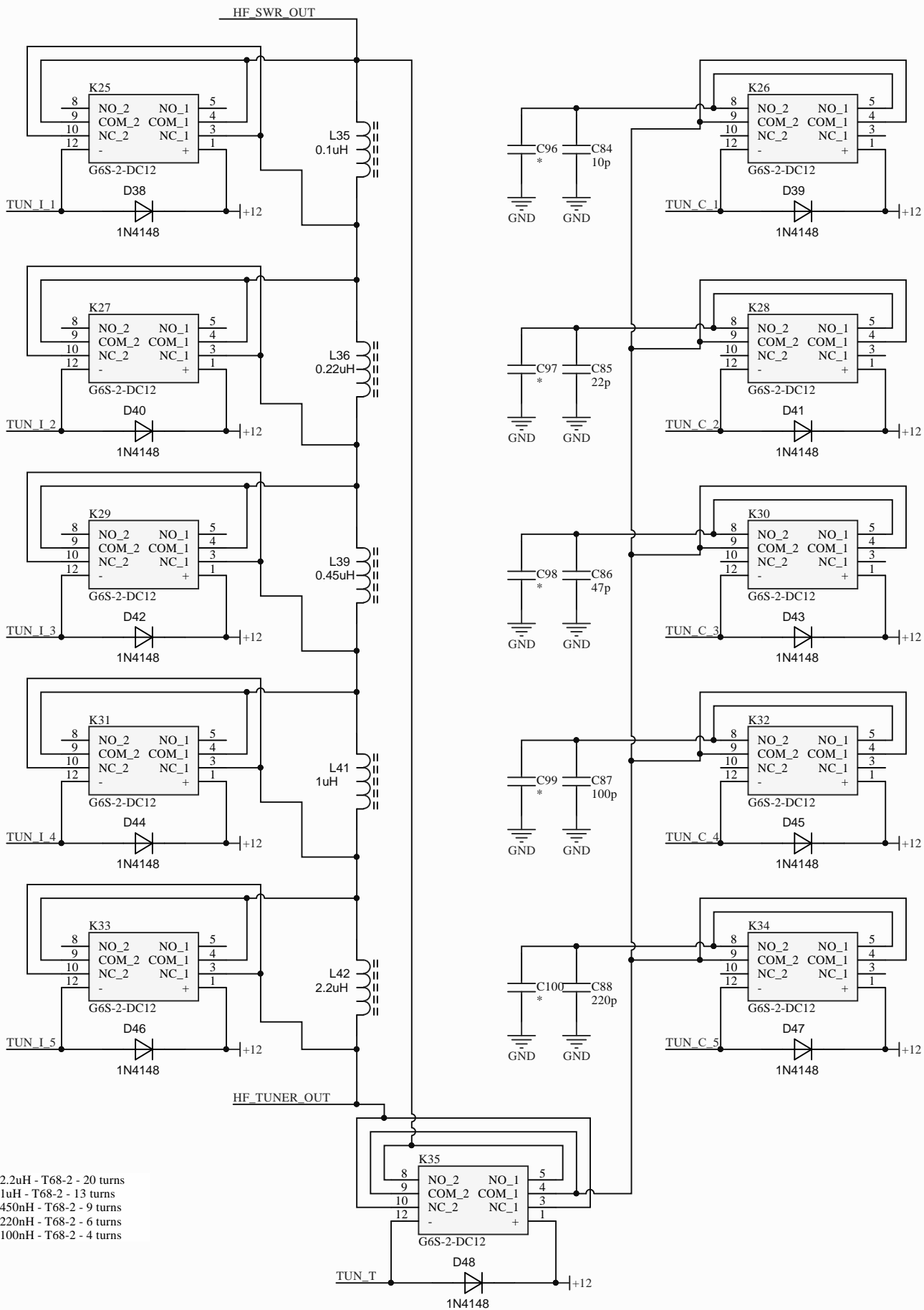


HF SWR Tandem Match



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

HF Antenna Tuner



Title **HF Tuner**

Size: A4

Number:18

Revision:2.0

Date: 04.04.2021

Time: 21:46:01

Sheet 18 of 18

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

Altium

Comment	Description	Designator	Footprint	LibRef	Quantity
51022-02WB	51022-02WB	AMP1_PWR_AMP2	MS1022-02WB	51022-02WB	3
4.8n	Capacitor NPO HiVol	C1, C51	CAP_1206	B32620A0682J00	2
2p	Capacitor NPO HiVol	C2, C3	CAP_1206	B32620A0682J00	2
5p	Capacitor NPO HiVol	C4, C5, C6	CAP_1206	B32620A0682J00	3
2.2p	Capacitor NPO HiVol	C7, C8	CAP_1206	B32620A0682J00	2
12p	Capacitor NPO HiVol	C9, C11	CAP_1206	B32620A0682J00	2
10p	Capacitor NPO HiVol	C10	CAP_1206	B32620A0682J00	1
5.1p	Capacitor NPO HiVol	C12, C13	CAP_1206	B32620A0682J00	2
22p	Capacitor NPO HiVol	C14, C15, C16, C17	CAP_1206	B32620A0682J00	7
39p	Capacitor NPO HiVol	C19, C21	CAP_1206	B32620A0682J00	2
33p	Capacitor NPO HiVol	C20	CAP_1206	B32620A0682J00	1
55p	Capacitor NPO HiVol	C24, C26, C27, C28	CAP_1206	B32620A0682J00	6
47p	Capacitor NPO HiVol	C25	CAP_1206	B32620A0682J00	1
100p	Capacitor NPO HiVol	C29, C31	CAP_1206	B32620A0682J00	2
82p	Capacitor NPO HiVol	C30, C37, C39	CAP_1206	B32620A0682J00	3
150p	Capacitor NPO HiVol	C34, C36	CAP_1206	B32620A0682J00	2
120p	Capacitor NPO HiVol	C35	CAP_1206	B32620A0682J00	1
100n	CAP_0805	C38, C59, C60, C61	CAP_0805	CAP_0805	18
220p	Capacitor NPO HiVol	C40, C42	CAP_1206	B32620A0682J00	2
180p	Capacitor NPO HiVol	C41, C43, C44	CAP_1206	B32620A0682J00	3
470p	Capacitor NPO HiVol	C45, C47	CAP_1206	B32620A0682J00	2
390p	Capacitor NPO HiVol	C46	CAP_1206	B32620A0682J00	1
2.2n	Capacitor NPO HiVol	C48, C49	CAP_1206	B32620A0682J00	2
4.7n	Capacitor NPO HiVol	C50	CAP_1206	B32620A0682J00	1
100n	Capacitor	C52, C57	B32620A0682J00	B32620A0682J00	2
100n	CAP_1206	C53, C56, C58, C61	CAP_1206	CAP_1206	5
820p	Capacitor	C54	B32620A0682J00	B32620A0682J00	1
27pF	CAP_0805	C55	CAP_0805	CAP_0805	1
1uF	CAP_0805	C62, C63, C79, C83	CAP_0805	CAP_0805	6
6.5-30pF	TZ3P100A10	C65, C66	S025J2010J	CAP_0805	2
100pF	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
22uF	CAPAE_6.5w 6h5.4	C74, C77	CAPAE_6.5w 6h5.4	CAPAE_6.5w 6h5.4	2
10p	Capacitor	C84	B32620A0682J00	B32620A0682J00	1
22p	Capacitor	C85	B32620A0682J00	B32620A0682J00	1
47p	Capacitor	C86	B32620A0682J00	B32620A0682J00	1
100p	Capacitor	C87	B32620A0682J00	B32620A0682J00	1
220p	Capacitor	C88	B32620A0682J00	B32620A0682J00	1
2.2uF 100V	CAP_1206	C91, C93	CAP_1206	CAP_1206	2
1uF 100V	CAP_1206	C92, C94	CAP_1206	CAP_1206	2
2.2uF	CAP_1206	C95	CAP_1206	CAP_1206	1
	Capacitor NPO HiVol	C96, C97, C98, C99	CAP_1206	B32620A0682J00	5
1n8	CAP_1206	C105	CAP_1206	CAP_1206	1
33p	CAP_0805	C112, C120	CAP_0805	CAP_0805	2
1uF	CAP_0805	C115	CAP_0805	CAP_0805	1
47uF	CAPAE_6.5w 6h5.4	C119	CAPAE_6.5w 6h5.4	CAPAE_6.5w 6h5.4	1
10n	CAP_0805	C121	6-0805_M	CAP_0805	1
1n	CAP_0805	C122	6-0805_M	CAP_0805	1
100p	CAP_0805	C123, C132	6-0805_M	CAP_0805	2
10uF 25V	CAPAE_5.3w 3h6.1	C129	CAPAE_5.3w 3h6.1	CAPAE_5.3w 3h6.1	1
100n	CAP_0805	C131	6-0805_M	CAP_0805	1
BAT46FRLM	Diode	D1, D3, D49, D50	SMD0513K117N	BAT46FRLM	4
5W6S OA-TR	Diode	D2	5W6S5CATR	SMB13V33	1
1N4148	1N4148	D4, D5, D6, D9, D51	SS14	1N4148	31
BAV99	BAV99	D7	50T23	BAV99	1
SS14	SS14	D18, D23, D35, D36	SS14	SS14	5
5MB16CA	TVS Diode (Bidirect)	D33, D34	DIC0M6436X261N	5MB16CA	2
FERRITE BEAD	IND_FERRITE_BEAD	F1, F2	RES	IND_FERRITE_BEAD	2
ANT1	UML	J1	31-5431	31-5431	1
ADC	SMA	J2	31-5431	31-5431	1
EXTERNAL	2*5 PIN	J3	90131-012	90131-012	1
MOTHERBOARD	2*5 PIN	J4	90131-012	90131-012	1
ANT2	SMA	J5	31-5431	31-5431	1
IRICurrent124V /33.8u	X2	J6	19867172	19867172	1
IRICurrent13.8V	X2	J7	19867172	19867172	1
13.8V	X2	J8	19867172	19867172	1
DAC	SMA	J9	31-5431	31-5431	1
06S-2 DC12	Relay or Contactor	K1, K2, K3, K4, K5	G6S2DC12	G6S-2 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, L2	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, L21	IND_FERRITE_CORE	IND_FERRITE_CORE	3
1.2uH	Inductor	L22, L23, L24	IND_FERRITE_CORE	IND_FERRITE_CORE	3
11uH	Inductor	L25, L26, L27	IND_FERRITE_CORE	IND_FERRITE_CORE	3
158uH	Inductor	L28, L29, L40	IND_FERRITE_CORE	IND_FERRITE_CORE	3
10uH	Inductor	L30, L37, L38, L48	IND_FERRITE_CORE	IND_FERRITE_CORE	4
10uH	IND_1206	L3	IND_1206	IND_1206	1
6.2nH	IND_0805	L12, L33, L36	IND_0805	IND_0805	3
6.1uH	Inductor	L35	IND_FERRITE_CORE	IND_FERRITE_CORE	1
6.22uH	Inductor	L36	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	Inductor	L46	IND_1206	IND_1206	1
22nH	IND_0805	L48	IND_0805	IND_0805	1
8007MVS1	8007MVS1	Q1, Q3	8007MVS1	8007MVS1	2
RLM.9301	MOSF ET	Q2, Q7, Q10	SOT23	MOSF ET_ENH_PD	3
PGA103+	SOT89	Q4	SOT89	PGA103+	1
BA080H1415MM	BA080H1415MM	Q8	BA080H1415MM	BA080H1415MM	1
RD01MUS1	RD01MUS1	Q9	SOT89	RD01MUS1	1
100 2W	CFR200J0R0R	R1, R2	RES_2W	CFR200J0R0R	2
560	RES_0805	R3, R7, R8, R9, R10	RES_0805	RES_0805	7
30k	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
KTBY1J20	Integrated Circuit	R14	TQ254P420X460X7	KTBY1_10	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	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
330	RES_1206	R24, R25, R47, R48	RES_1206	RES_1206	6
ADJ1k	306J	R30, R40, R46	306J	306J	3
1k	RES_0805	R31, R33, R57, R69	RES_C2013X60X40N	CMP-2001-0R626.1	7
6.8k	RES_0805	R32	RES_0805	RES_0805	1
0.5	RES_1206	R34, R38	RES_1206	RES_1206	2
510	RES_0805	R36, R54	RES_0805	RES_0805	2
2.7k	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_0805	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
10k	RES_1206	R73	RES_1206	RES_1206	1
TRANSF_HF2	TRANSF_HF2	T1	TRANSF_HF2	TRANSF_HF2	1
TRANSF_HF1	TRANSF_HF1	T2	TRANSF_HF1	TRANSF_HF1	1
8T M000HM10*6*6	Transformer	T3	Butrof	TRANSF_ICORE	1
TRANSF_ICORE	TRANSF_ICORE	T4	TRANSF_ICORE	TRANSF_ICORE	1
1.1	1.1	T5	TRANSF_ACORE2	TRANSF_ACORE2	1
SWR_VHF	SWR_VHF	TS6	SWR_VHF	SWR_VHF	1
SWR_TANDEM MATO	SWR_TANDEM MATO	TS9W	SWR_TANDEM MATO	SWR_TANDEM MATO	1
STPFC6C595YTR	Integrated Circuit	U1, U2, U3, U7, U11	SOP65P440X120-16	STPFC6C595YTR	5
Acrom RM5	Acrom RM5	U4, U12	IMAGR	Acrom RM5	2
LT1117BST-ADJ	LT1117BST-ADJ	U5, U19, U20	LT1117BST-ADJ	LT1117BST-ADJ	3
AMS1117.5	AMS1117.5	U6	AMS1117.5	AMS1117.5	1
AD0918BRM2	Integrated Circuit	U8, U10	SOP65P490X115-8N	AD0918BRM2	2
PE4390	Integrated Circuit	U9	QFN50P440X4050X9	PE4312C-2	1
MRF186	MRF186	U18	MRF186	MRF186	1