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U_LNA
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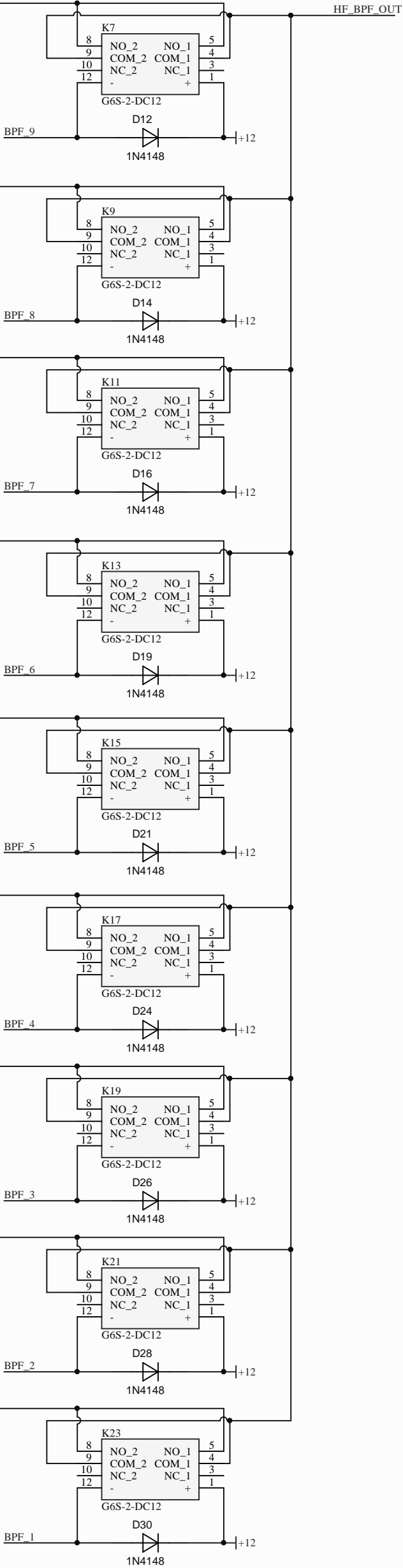
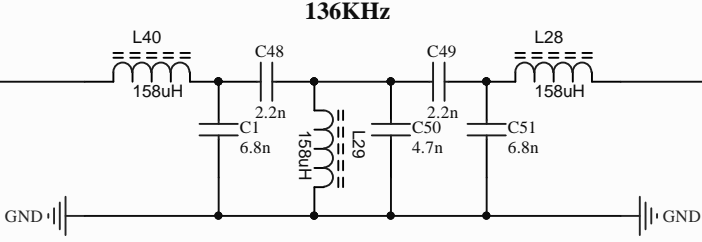
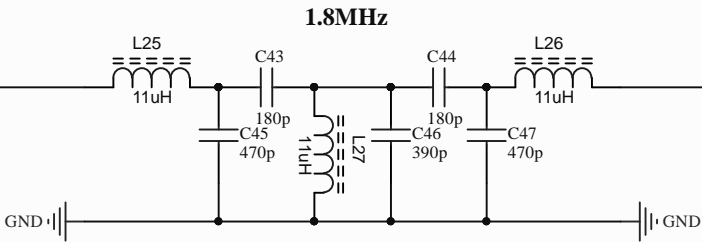
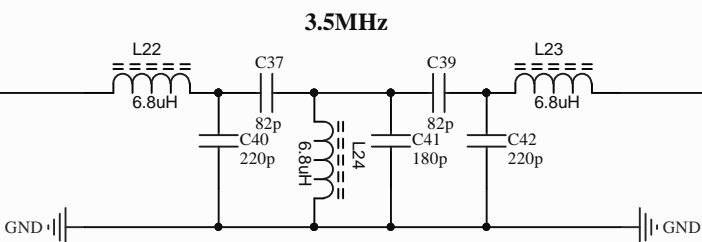
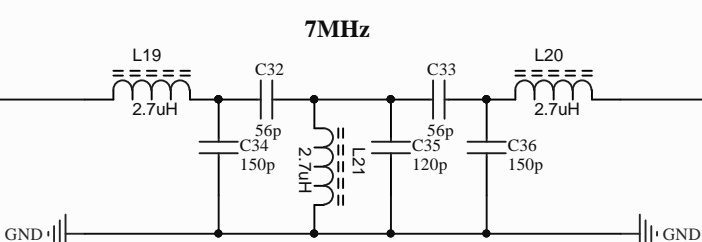
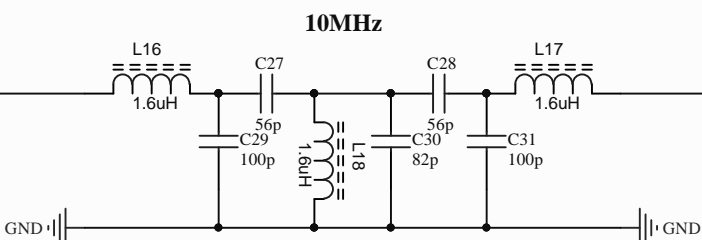
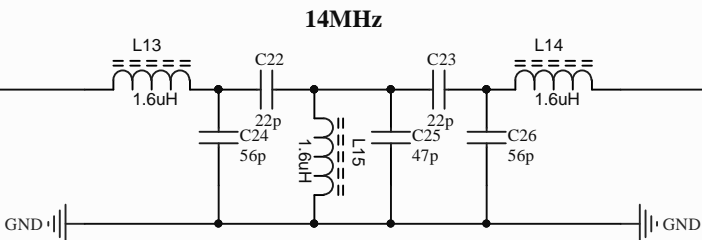
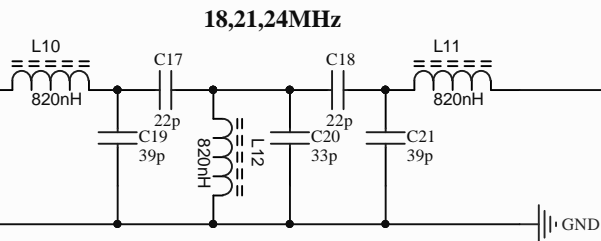
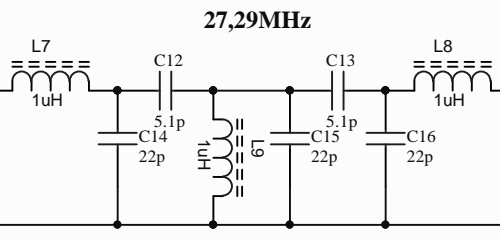
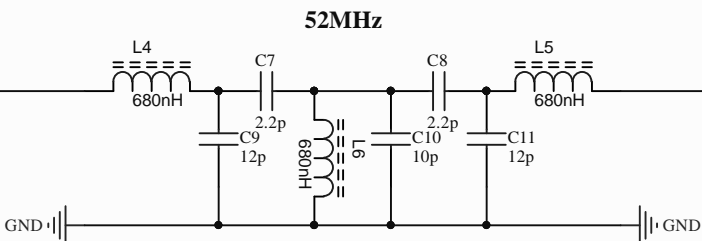
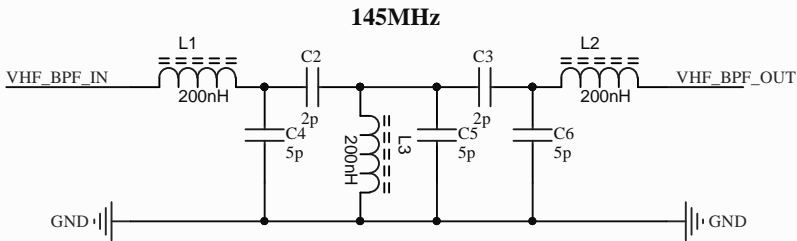
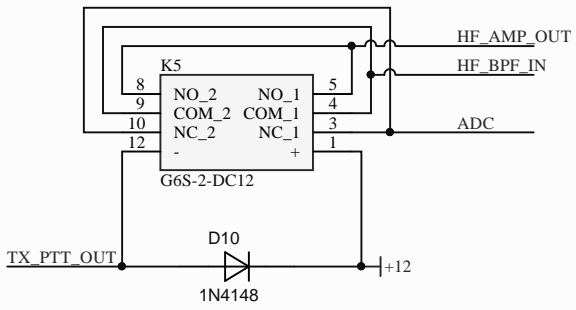
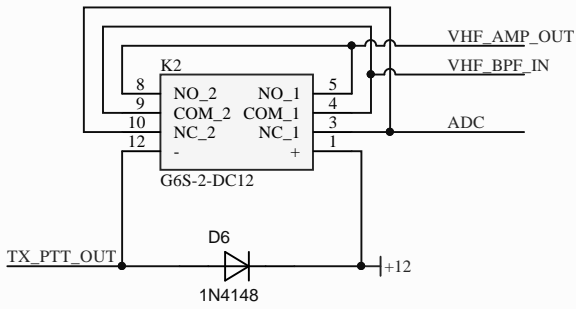
SWR_HF
SWR_HF.SchDocSWR_VHF
SWR_VHF.SchDocHF_AMP_DRIVER
HF_AMP_DRIVER.SchDocU_CONTROL
CONTROL.SchDocHF_AMP
HF_AMP.SchDoc

VHF_AMP
VHF_AMP.SchDoc

HF_TUNER
HF_TUNER.SchDoc

Title <i>RF-UNIT BIG</i>			* * * * *	
Size: A4	Number:12	Revision2.0		
Date: 15.04.2021	Time:22:55:51	Sheet12 of 18		
File: D:\Dropbox\Develop\Projects\WOLF\Scheme\Experimental\RF-UNIT-BIG\RF-UNIT-BIG.SCHDOC				

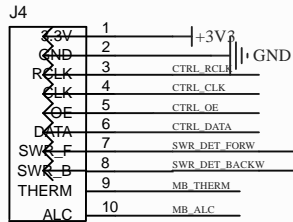
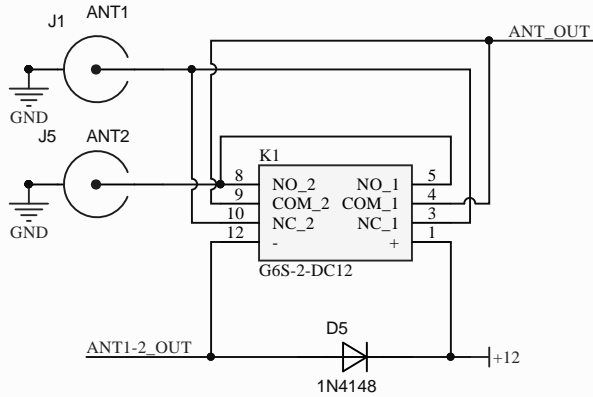
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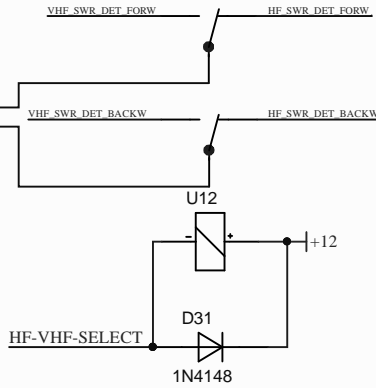
- 0.5mm cord
- 2200m - 158uH - M1000HM3-5 K16*10*4,5 - 19.5 turns
 - 160m - 11uH - T68-2 - 44 turns
 - 80m - 6.8uH - T68-2 - 35 turns
 - 40m - 2.7uH - T68-2 - 22 turns
 - 30m - 1.6uH - T68-2 - 17 turns
 - 20m - 1.6uH - T68-2 - 17 turns
 - 17,15,12m - 820nH - T68-2 - 12 turns
 - CB,10m - 1uH - T68-2 -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



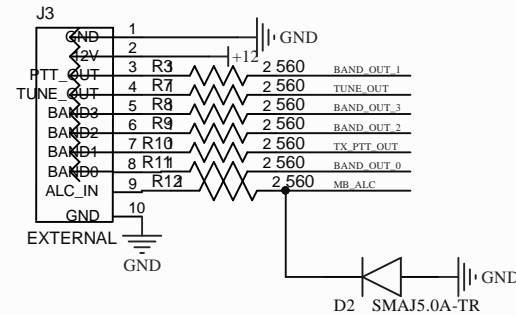
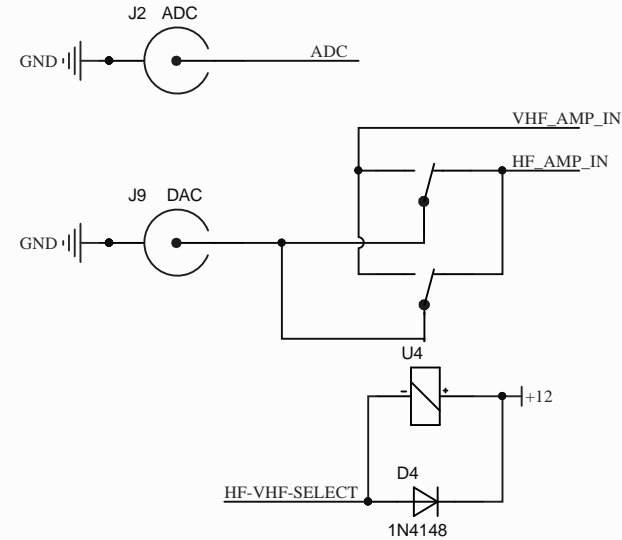
TXRX_COMUTATOR

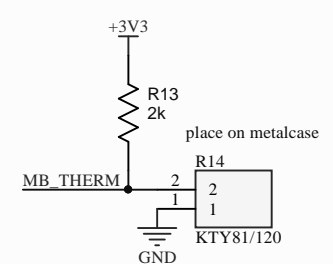
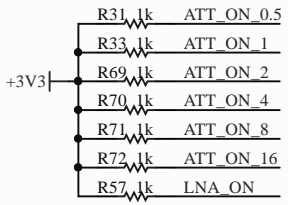
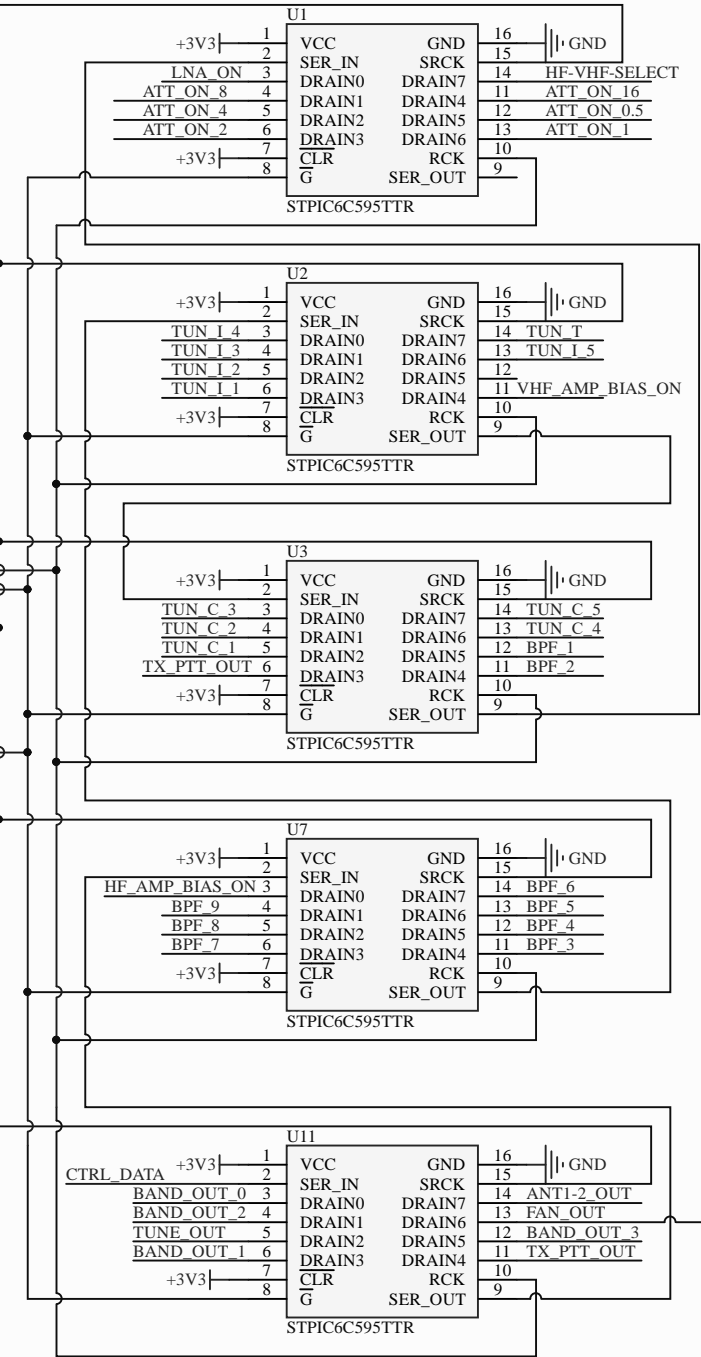


MOTHERBOARD

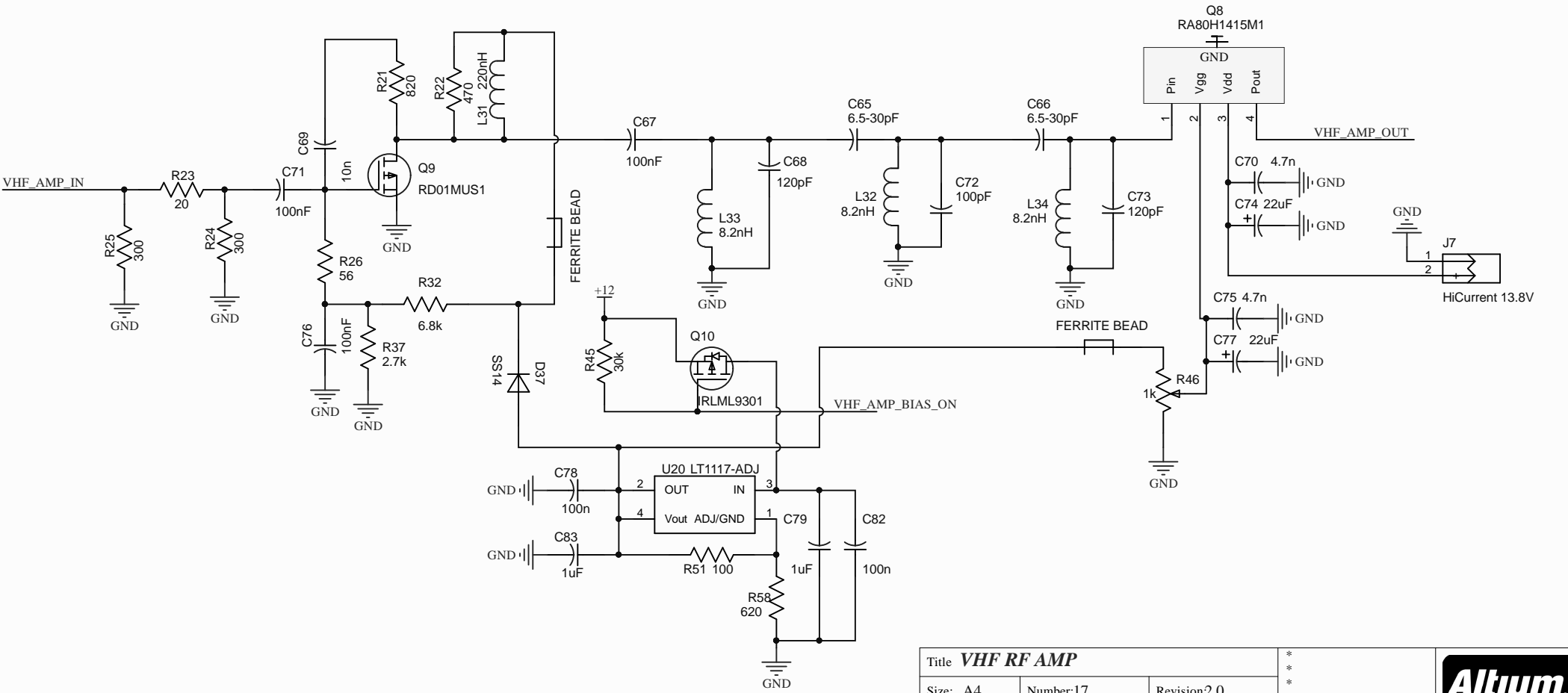


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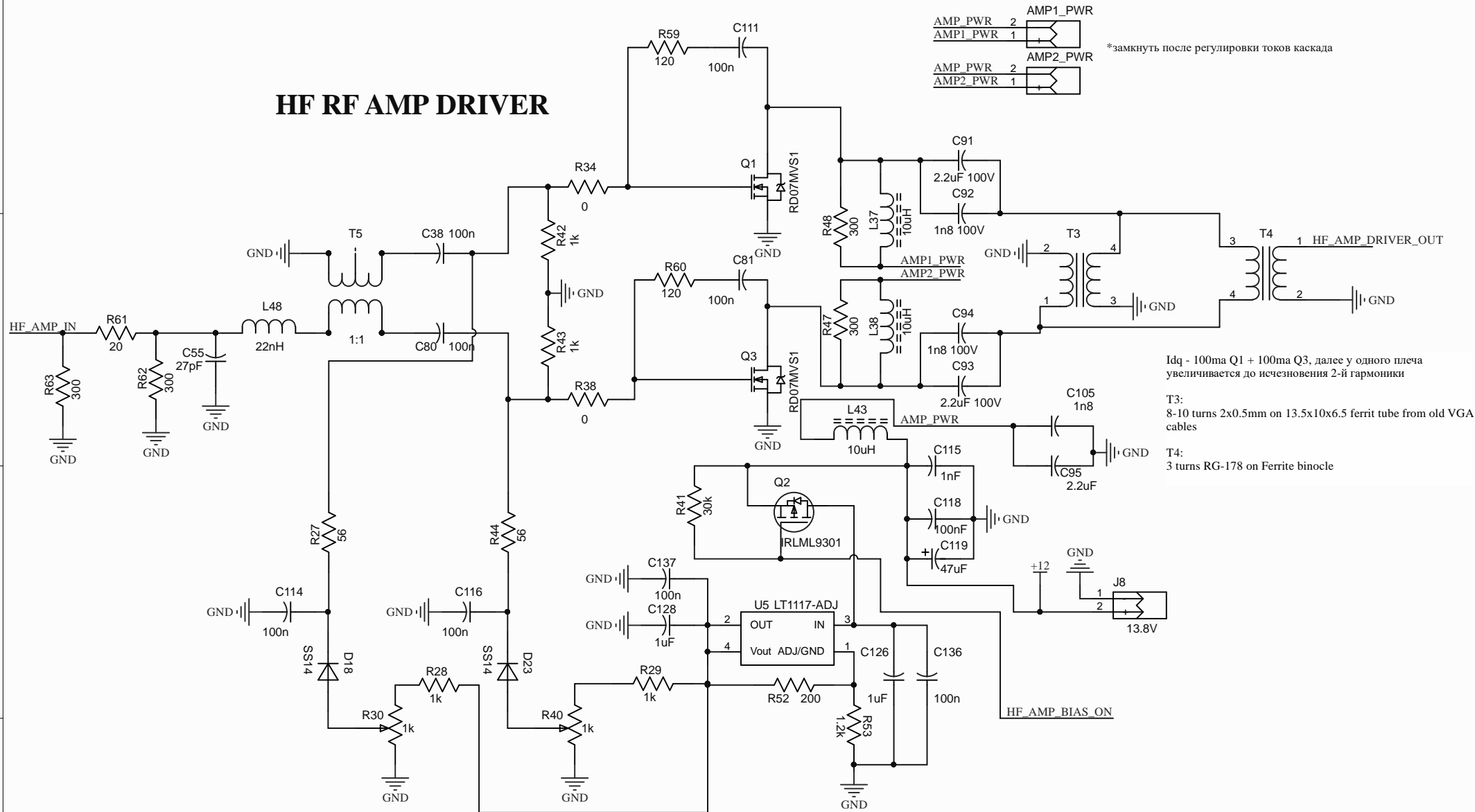




VHF RF AMP



HF RF AMP DRIVER



Title **HF RF AMP DRIVER**

Size: A4

Number:17

Revision:2.0

Date: 15.04.2021

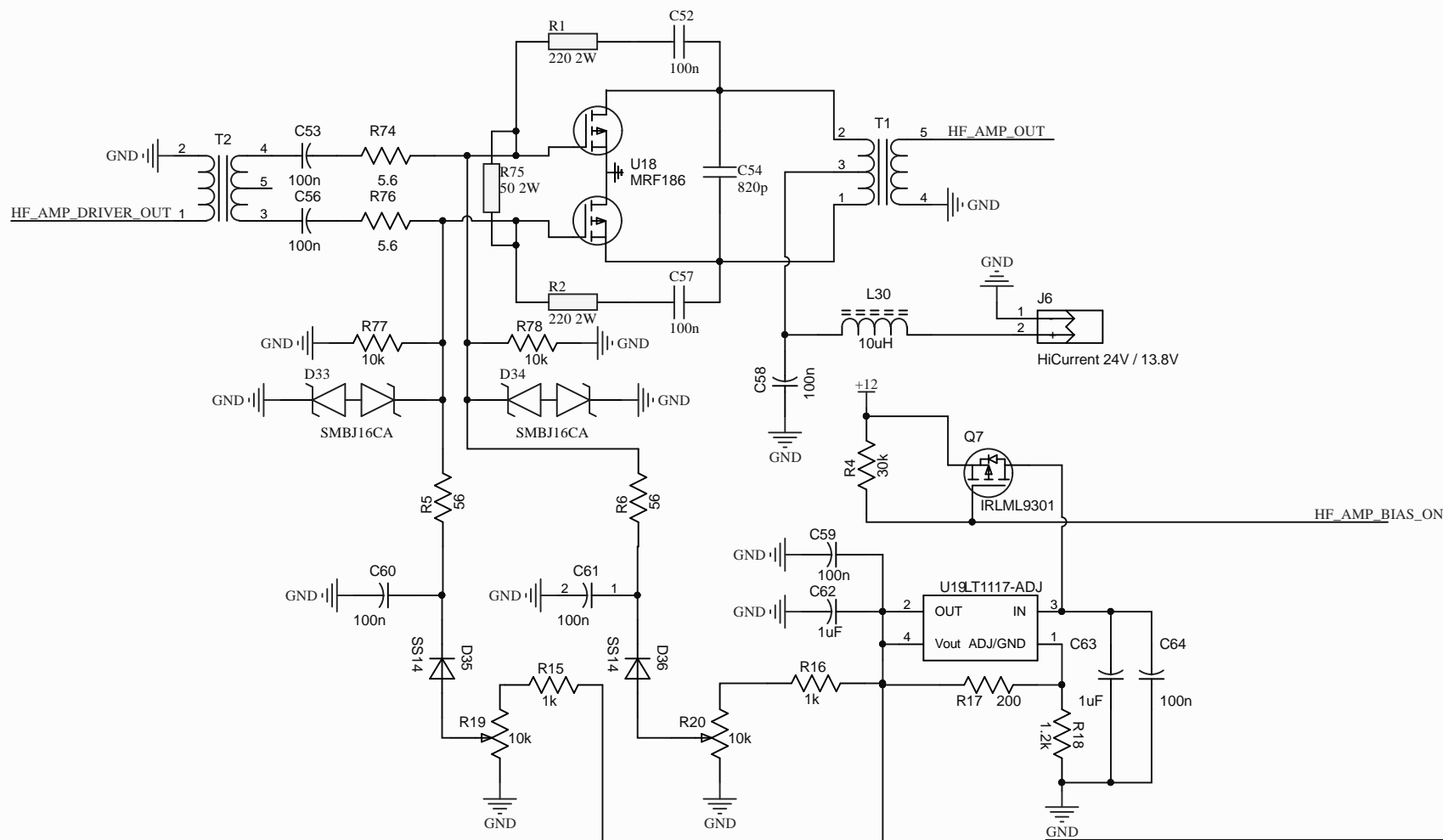
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Sheet 17 of 18

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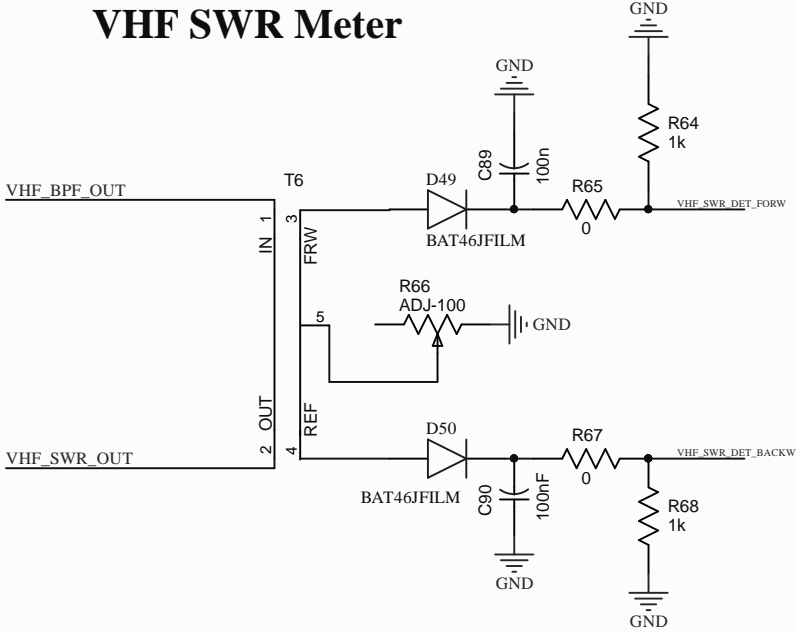


HF RF AMP

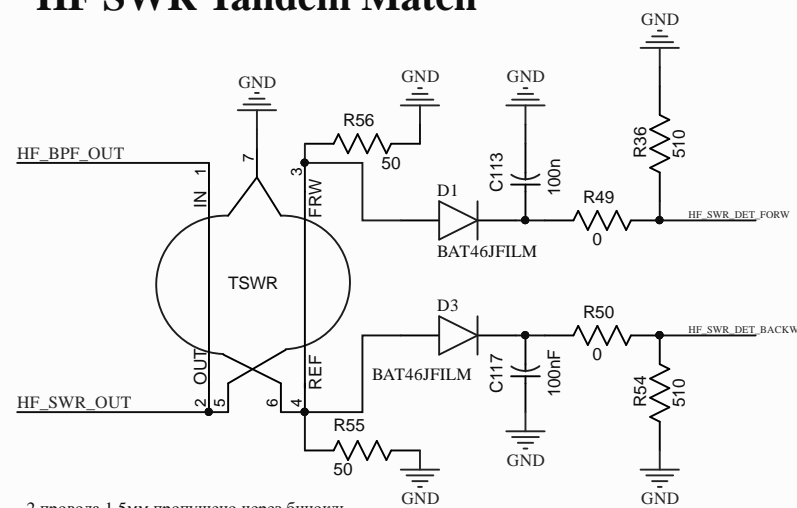


Title HF RF AMP			<div><div></div><div>Altium®</div></div>
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Date: 15.04.2021	Time: 22:55:52	Sheet 17 of 18	
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VHF SWR Meter

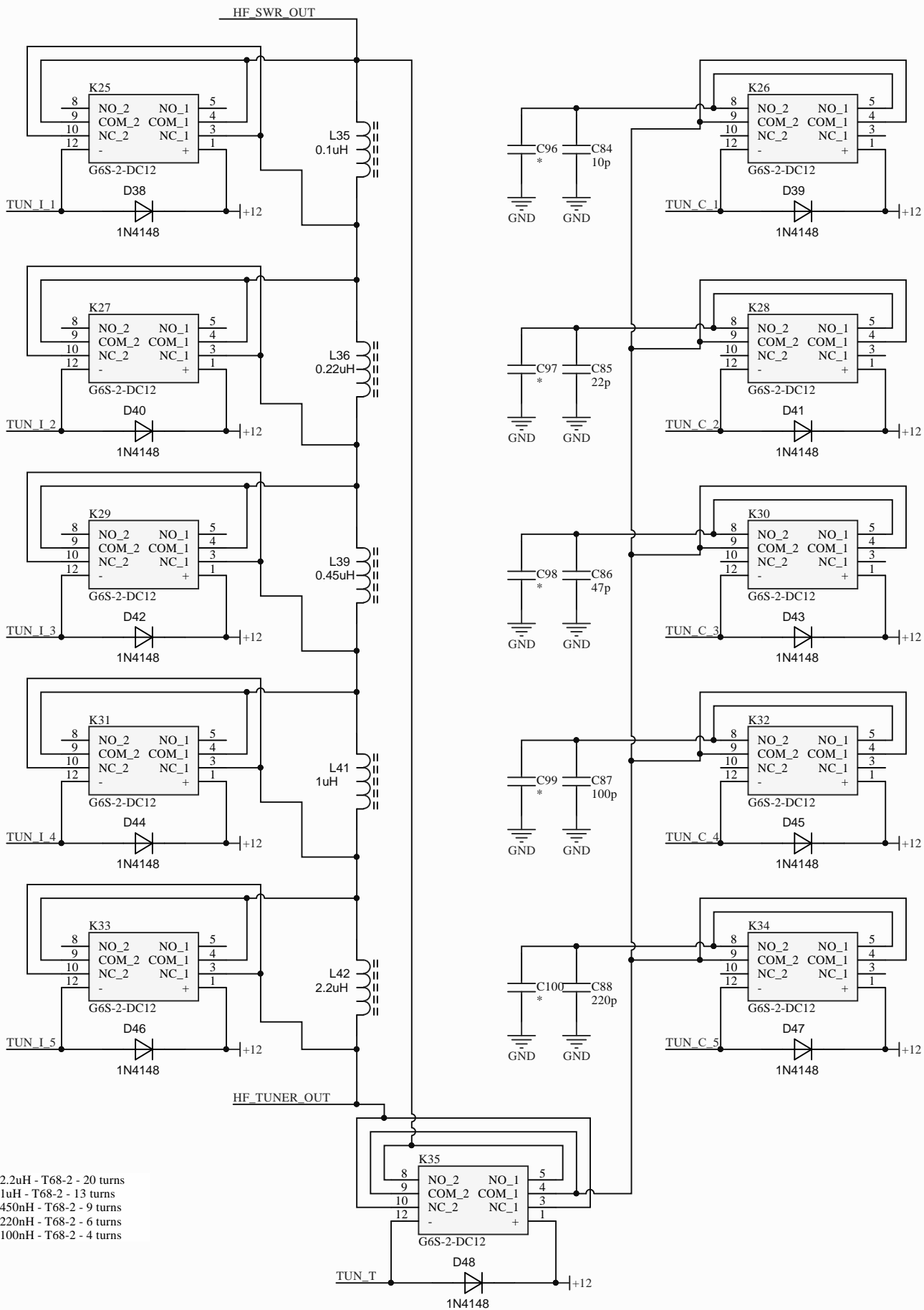


HF SWR Tandem Match



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

HF Antenna Tuner



Title **HF Tuner**

Size: A4

Number:18

Revision:2.0

Date: 15.04.2021

Time: 22:55:53

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
51022-02B	51022-02B	AMP1_PWR_AMP2_	51022-02B	51022-02B	3
6.8n	Capacitor NPO HVOI	C1, C51	CAP_1206	B32620A0682.E0B	2
2p	Capacitor NPO HVOI	C2, C3	CAP_1206	B32620A0682.E0B	2
5p	Capacitor NPO HVOI	C4, C5, C6	CAP_1206	B32620A0682.E0B	3
2.2p	Capacitor NPO HVOI	C7, C8	CAP_1206	B32620A0682.E0B	2
12p	Capacitor NPO HVOI	C9, C11	CAP_1206	B32620A0682.E0B	2
10p	Capacitor NPO HVOI	C10	CAP_1206	B32620A0682.E0B	1
5.1k	Capacitor NPO HVOI	C12, C13	CAP_1206	B32620A0682.E0B	2
22p	Capacitor NPO HVOI	C14, C15, C16, C17	CAP_1206	B32620A0682.E0B	7
39p	Capacitor NPO HVOI	C19, C21	CAP_1206	B32620A0682.E0B	2
33p	Capacitor NPO HVOI	C20	CAP_1206	B32620A0682.E0B	1
56p	Capacitor NPO HVOI	C24, C26, C27, C28	CAP_1206	B32620A0682.E0B	6
47k	Capacitor NPO HVOI	C25	CAP_1206	B32620A0682.E0B	1
100p	Capacitor NPO HVOI	C29, C31	CAP_1206	B32620A0682.E0B	2
82p	Capacitor NPO HVOI	C30, C37, C39	CAP_1206	B32620A0682.E0B	3
15p	Capacitor NPO HVOI	C34, C36	CAP_1206	B32620A0682.E0B	2
120p	Capacitor NPO HVOI	C33	CAP_1206	B32620A0682.E0B	1
100p	CAP_0805	C38, C59, C60, C61	CAP_0805	CAP_0805	18
220p	Capacitor NPO HVOI	C40, C42	CAP_1206	B32620A0682.E0B	2
180p	Capacitor NPO HVOI	C41, C43, C44	CAP_1206	B32620A0682.E0B	3
47p	Capacitor NPO HVOI	C45, C47	CAP_1206	B32620A0682.E0B	2
39p	Capacitor NPO HVOI	C48, C50	CAP_1206	B32620A0682.E0B	2
2.2n	Capacitor NPO HVOI	C49, C49	CAP_1206	B32620A0682.E0B	2
4.7n	Capacitor NPO HVOI	C50	CAP_1206	B32620A0682.E0B	1
100p	Capacitor	C52, C57	B32620A0682.E0B	B32620A0682.E0B	2
100p	CAP_1206	C53, C56, C58, C61	CAP_1206	CAP_1206	5
82p	CAP_0805	C54	B32620A0682.E0B	B32620A0682.E0B	1
27p	CAP_0805	C55	CAP_0805	CAP_0805	1
1uF	CAP_0805	C62, C63, C79, C83	CAP_0805	CAP_0805	6
6.5-30pF	TZCP300A10D	C65, C66	50252010	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
22pF	CAPAE 6.0e 6H54	C74, C77	CAPAE 6.0e 6H54	CAPAE 6.0e 6H54	2
10p	Capacitor	C84	B32620A0682.E0B	B32620A0682.E0B	1
22p	Capacitor	C85	B32620A0682.E0B	B32620A0682.E0B	1
47p	Capacitor	C86	B32620A0682.E0B	B32620A0682.E0B	1
10pF	Capacitor	C87	B32620A0682.E0B	B32620A0682.E0B	1
220p	Capacitor	C88	B32620A0682.E0B	B32620A0682.E0B	1
2.2uF 100V	CAP_1206	C91, C93	CAP_1206	CAP_1206	2
1nF 100V	CAP_1206	C92, C94	CAP_1206	CAP_1206	2
2.2k	CAP_1206	C95	CAP_1206	CAP_1206	1
	Capacitor NPO HVOI	C96, C97, C98, C99	CAP_1206	B32620A0682.E0B	5
1n8	CAP_1206	C105	CAP_1206	CAP_1206	1
51k	CAP_0805	C112, C120	CAP_0805	CAP_0805	2
11k	CAP_0805	C115	CAP_0805	CAP_0805	1
47uF	CAPAE 6.0e 6H54	C119	CAPAE 6.0e 6H54	CAPAE 6.0e 6H54	1
10n	CAP_0805	C121	6-0805_M	CAP_0805	1
10n	CAP_0805	C122	6-0805_M	CAP_0805	1
100p	CAP_0805	C123, C122	6-0805_M	CAP_0805	2
10uF 25V	CAPAE 5.3e 3H61	C129	CAPAE 5.3e 3H61	CAPAE 5.3e 3H61	1
10n	CAP_0805	C131	6-0805_M	CAP_0805	1
BAT46.F ILM	Diode	D1, D5, D49, D50	50G2513X117N	BAT46.F ILM	4
5M85 DA-TR			5M85CATK	5M85V15V3	1
1N4148	1N4148	D4, D6, D8, D9	SSN	1N4148	37
BAV99	BAV99	D7	50T23	BAV99	1
55N	55N	D18, D23, D35, D36	55N	55N	5
5M876CA	TVS Diode (Bi-dir)	D33, D34	DO9M643x261N	5M876CA	2
FERRITE BEAD	FERRITE BEAD	F1, F2	NS_FERRITE_BEAD	FERRITE_BEAD	2
ANT1	SMA	J1	31-54B	31-54B	1
ADC	SMA	J2	31-54B	31-54B	1
EXTERNAL	2*5 PIN	J3	90131-012B	90131-012B	1
MOTHERBOARD	2*5 PIN	J4	90131-012B	90131-012B	1
AN12	SMA	J5	31-54B	31-54B	1
Recurrent 24V / 13	XZ	J6	198A7172	198A7172	1
HCCurrent 13.8V	XZ	J7	198A7172	198A7172	1
13.8V	XZ	J8	198A7172	198A7172	1
DAC	SMA	J9	31-54B	31-54B	1
QAS-2-DC12	SWR or Connector	K1, K2, K3, K4, K5,	QAS5DC12	QAS-2-DC12	3
200nH	Inductor	L1, L2, L3	IND_FERRITE_CORE	IND_FERRITE_CORE	3
680nH	Inductor	L4, L5, L6	IND_FERRITE_CORE	IND_FERRITE_CORE	3
1uH	Inductor	L7, L8, L9, L4	IND_FERRITE_CORE	IND_FERRITE_CORE	4
820nH	Inductor	L10, L11, L2	IND_FERRITE_CORE	IND_FERRITE_CORE	3
1.4uH	Inductor	L13, L14, L15, L16	IND_FERRITE_CORE	IND_FERRITE_CORE	4
2.7uH	Inductor	L19, L20, L2	IND_FERRITE_CORE	IND_FERRITE_CORE	3
6.8uH	Inductor	L22, L23, L3	IND_FERRITE_CORE	IND_FERRITE_CORE	3
11uH	Inductor	L25, L26, L27	IND_FERRITE_CORE	IND_FERRITE_CORE	3
150uH	Inductor	L28, L29, L4	IND_FERRITE_CORE	IND_FERRITE_CORE	3
10uH	Inductor	L30, L37, L38, L46	IND_FERRITE_CORE	IND_FERRITE_CORE	4
10uH	IND_1206	L3	IND_1206	IND_1206	1
8.2nH	IND_0805	L32, L33, L3	IND_0805	IND_0805	3
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	L46	IND_1206	IND_1206	1
22nH	IND_0805	L48	IND_0805	IND_0805	1
R007MVS1	R007MVS1	Q1, Q2	R007MVS1	R007MVS1	2
BM-M301	MOSFET	Q6, Q7, Q10	50T23	MOSFET_ENH_PD	3
PGA-103+ / SPF518	PGA-103+ / SPF518	Q8	SOT89	PGA-103+	1
RA80H1415M	RA80H1415M	Q8	RA80H1415M	RA80H1415M	1
R001MVS1	R001MVS1	Q9	SOT89	R001MVS1	1
220 2W	CFR200J100K	R1, R2	RES_2W	CFR200J02W	2
540	RES_0805	R2, R7, R9, R10	RES_0805	RES_0805	2
30k	RES_0805	R4, R41, R45	RES_0805	RES_0805	3
5k	RES_0805	R5, R6, R26, R27, R6	RES_0805	RES_0805	5
2k	RES_0805	R13	RES_0805	RES_0805	1
RT181712	Integrated Circuit	R14	T0054P420X460X	RT181712	1
1k	RES_0805	R15, R16, R28, R29	RES_0805	RES_0805	8
200	RES_0805	R17, R52	RES_0805	RES_0805	2
1.2k	RES_0805	R18, R53	RES_0805	RES_0805	2
AD150K	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
AD11k	306J	R30, R40, R46	306J	306J	3
1k	RES_0805	R31, R33, R57, R69	RES_0805	RES_0805	7
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
2.1k	RES_0805	R37	RES_0805	RES_0805	1
18	RES_0805	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
AD1500	306J	R66	306J	306J	1
10k	RES_1206	R73	RES_1206	RES_1206	1
5.6	RES_1206	R74, R76	RES_1206	RES_1206	2
50 2W	CFR200J100K	R75	RES_2W	CFR200J02W	1
19k	RES_0805	R77, R78	RES_0805	RES_0805	2
TRANSF_HF2	TRANSF_HF2	T1	TRANSF_HF2	TRANSF_HF2	1
TRANSF_HF1	TRANSF_HF1	T2	TRANSF_HF1	TRANSF_HF1	1
BT M2000HM10*6	Transformer	T3	Ruist	TRANSF_ICORE	1
TRANSF_ICORE	TRANSF_ICORE	T4	TRANSF_ICORE	TRANSF_ICORE	1
1.1k	RES_0805	T5	TRANSF_ACORE2	TRANSF_ACORE2	1
SWR_VHF	SWR_VHF	T6	SWR_VHF	SWR_VHF	1
SWR_TANDEM_MKTO	SWR_TANDEM_MKTO	TSWR	SWR_TANDEM_MKTO	SWR_TANDEM_MKTO	1
STP6C5C951TR	Integrated Circuit	U1, U2, U3, U7, U11	SOP65P40X120-14	STP6C5C951TR	5
Axiom IM66	Axiom IM66	U12	IM66GR	Axiom IM66	2
LT1111JST-ADJ	LT1111JST-ADJ	U9, U10, U20	LT1111JST-ADJ	LT1111JST-ADJ	3
AMB1117-5	AMB1117-5	U6	AMB1117-5	AMB1117-5	1
AUGV188RMZ	Integrated Circuit	U8, U10	SOP65P40X110-8	AUGV188RMZ	2
PE4302	Integrated Circuit	U9	QFN50P400X400X0.8	PE4312C2	1
MBT186	MBT186	U18	MBT186	MBT186	1