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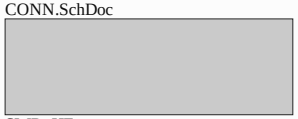
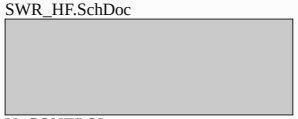
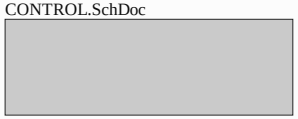


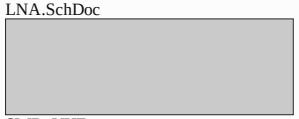
SWR_HF
SWR_HF.SchDoc



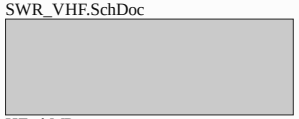
U_CONTROL
CONTROL.SchDoc



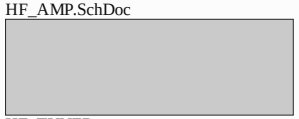
U_LNA
LNA.SchDoc



SWR_VHF
SWR_VHF.SchDoc



HF_AMP
HF_AMP.SchDoc



HF_TUNER
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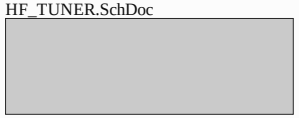
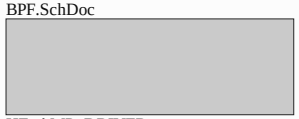
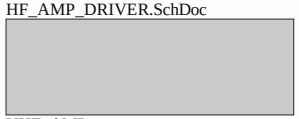


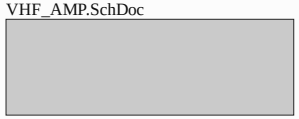
U_BPF
BPF.SchDoc



HF_AMP_DRIVER
HF_AMP_DRIVER.SchDoc

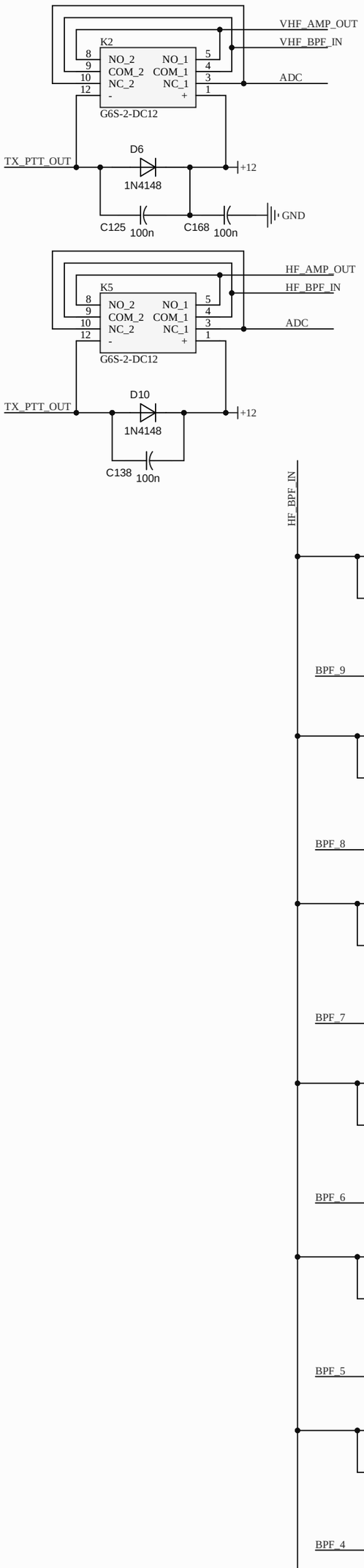


VHF_AMP
VHF_AMP.SchDoc



Title	***RF-UNIT BIG***		
Size: A4	Number:12	Revision:2.0	
Date: 02.07.2021	Time: 14:01:29	Sheet 12 of 18	
File:	D:\Dropbox\Develop\Projects\WOLF\Scheme\ALTIUM_DESIGNER\RF-UNIT-BIG\RF-UNIT-BIG.SCHDOC		

BPF

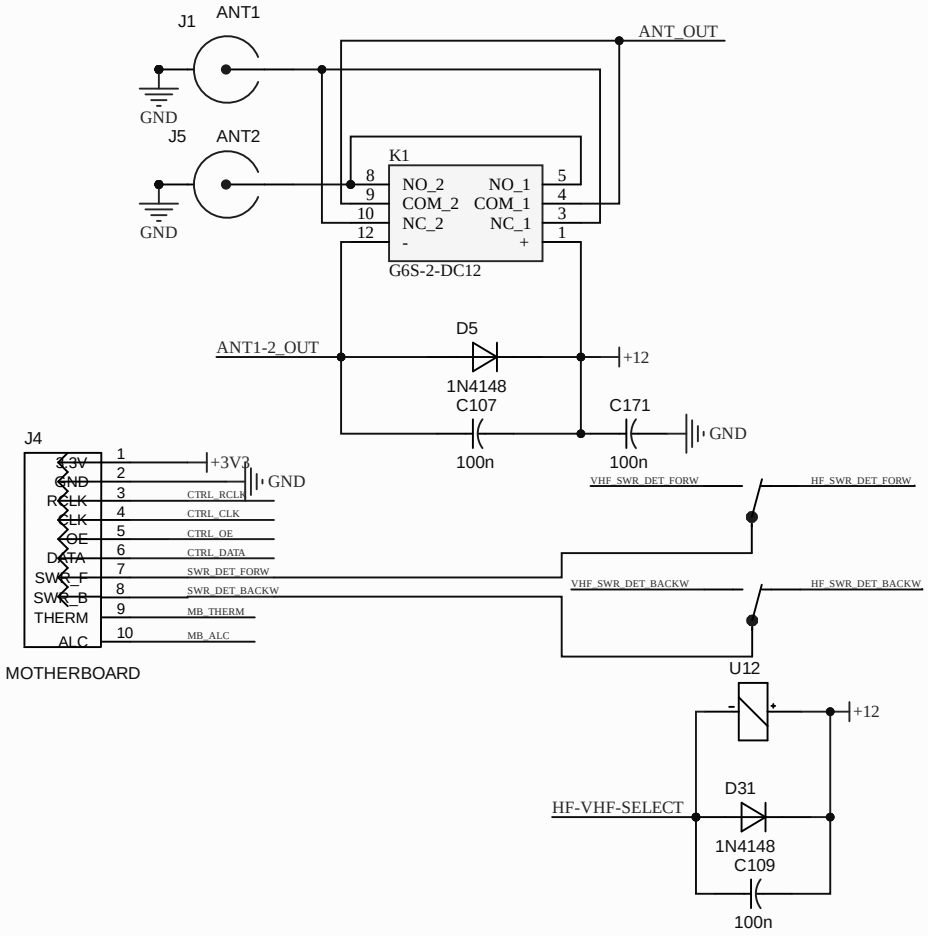


0.5mm cord

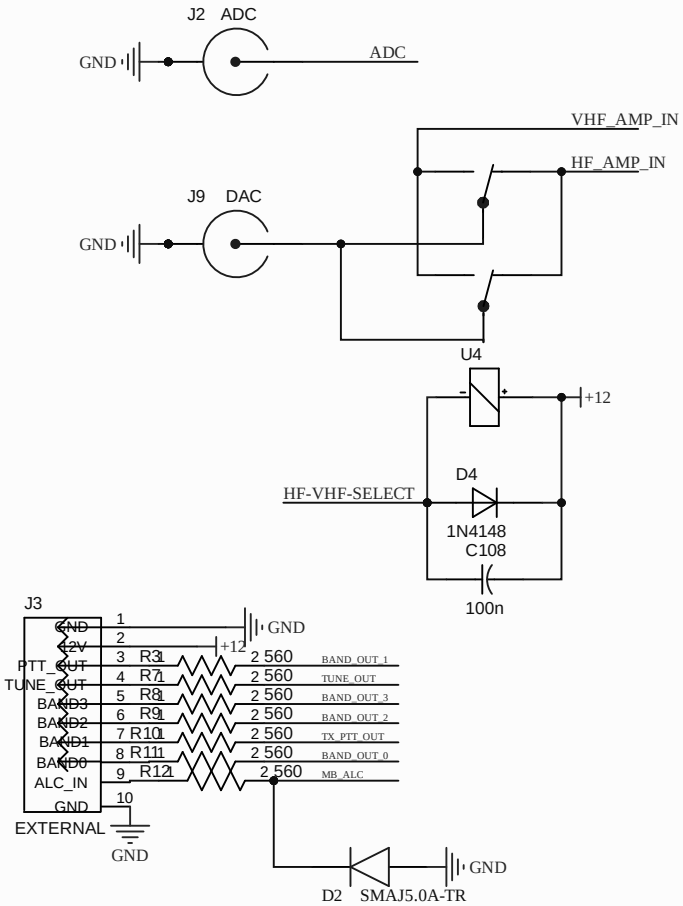
2200m - 158uH - M1000HM3-5 K16*10*4,5 - 19.5 turns
160m - 11uH - T68-2 - 44 turns
80m - 6.8uH - T68-2 - 35 turns
40m - 2.7uH - T68-2 - 22 turns
30m - 1.6uH - T68-2 - 17 turns
20m - 1.6uH - T68-2 - 17 turns
17,15,12m - 820nH - T68-2 - 12 turns
CB,10m - 1uH - T68-2 - 13 turns
6m - 680nH - T50-6 - 12 turns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

Title	*BPF*		
Size: A2	Number:13	Revision:2.0	
Date: 02.07.2021	Time: 14:01:29	Sheet 13 of 18	
File: D:\Dropbox\Develop\Projects\WOLF\Scheme\ALTIUM_DESIGNER\RF-UNIT-BIG\BPF.SchDoc			

TXRX_COMUTATOR



CONN



Title	***CONNECTIONS***		
Size: A4	Number:14	Revision:2.0	
Date: 02.07.2021	Time: 14:01:29	Sheet 14 of 18	
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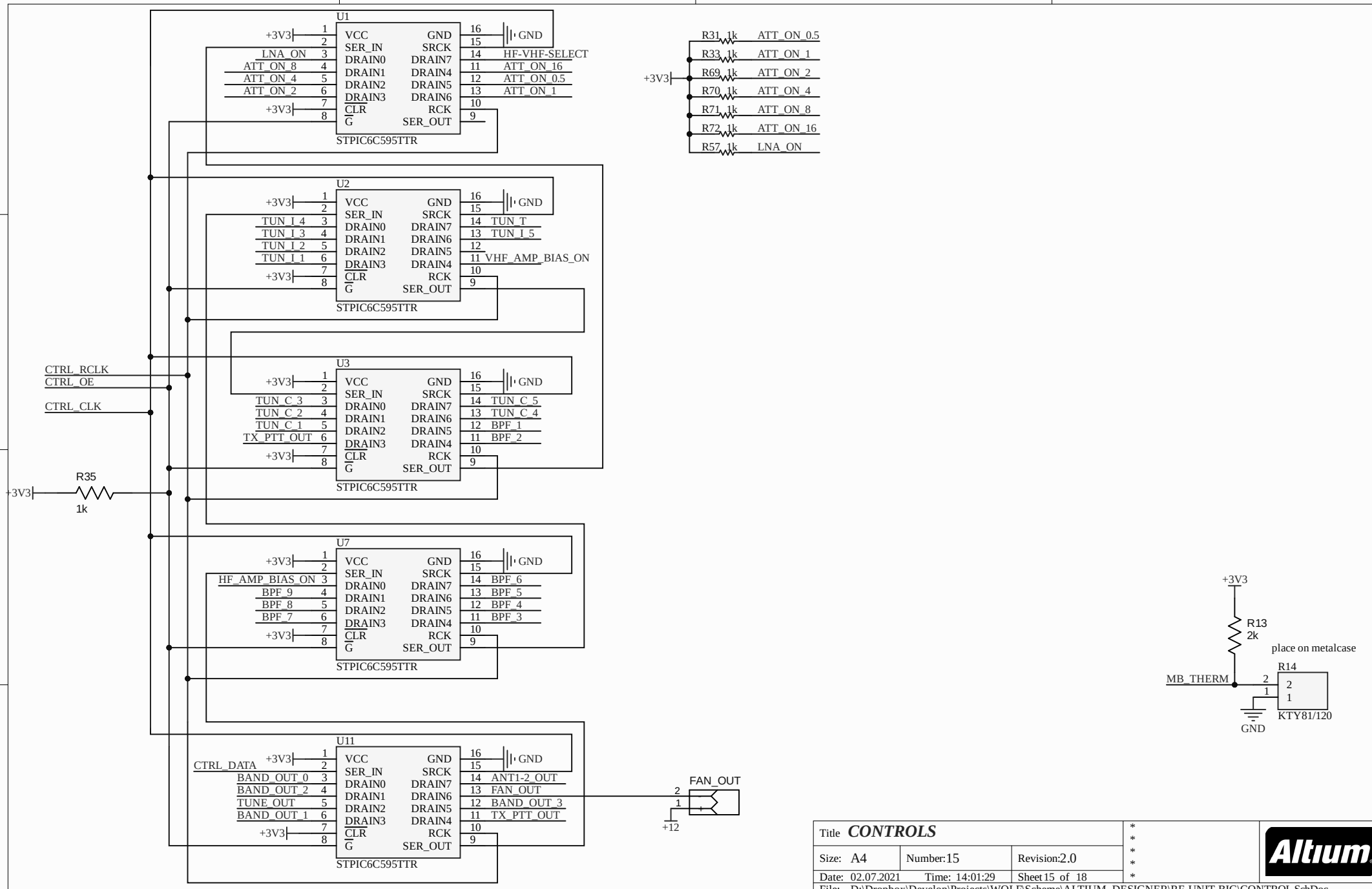

Title	***CONTROLS***		
Size: A4	Number:15	Revision:2.0	
Date: 02.07.2021	Time: 14:01:29	Sheet 15 of 18	
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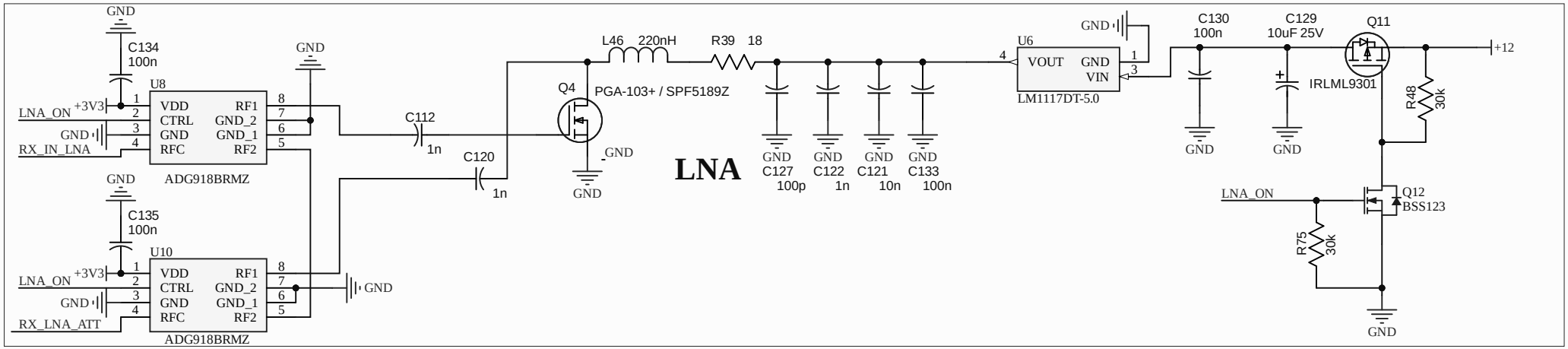
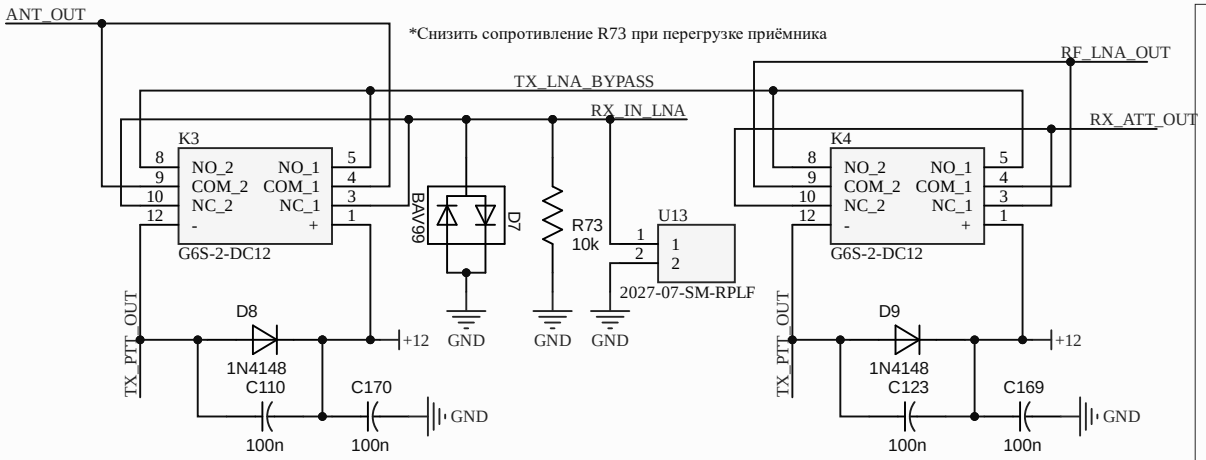
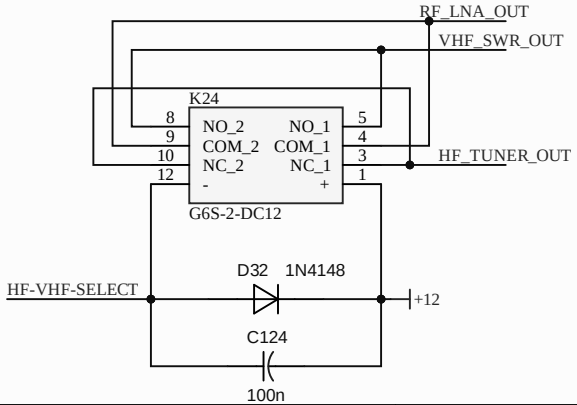
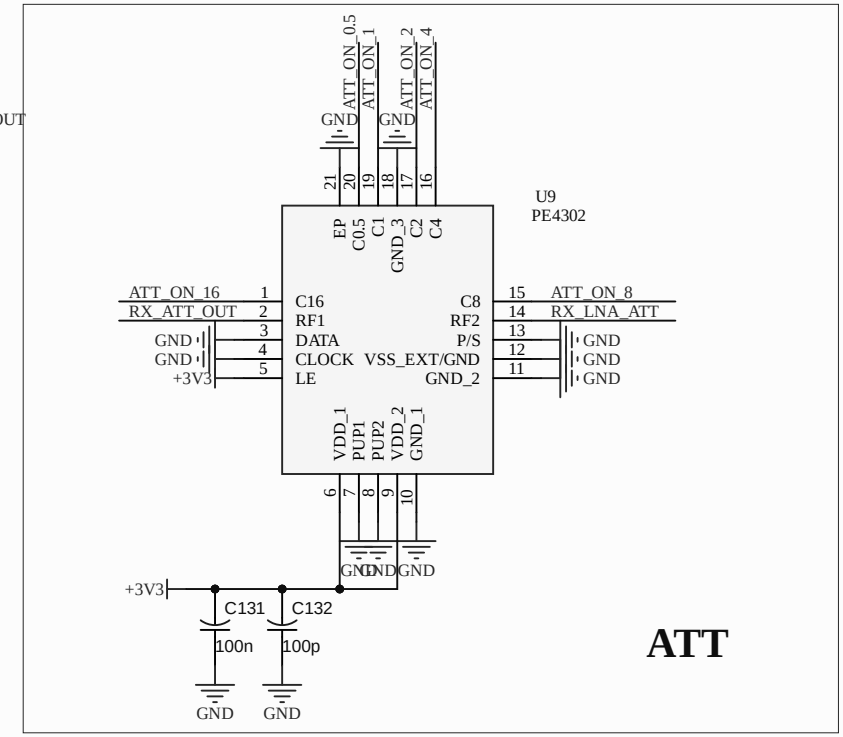


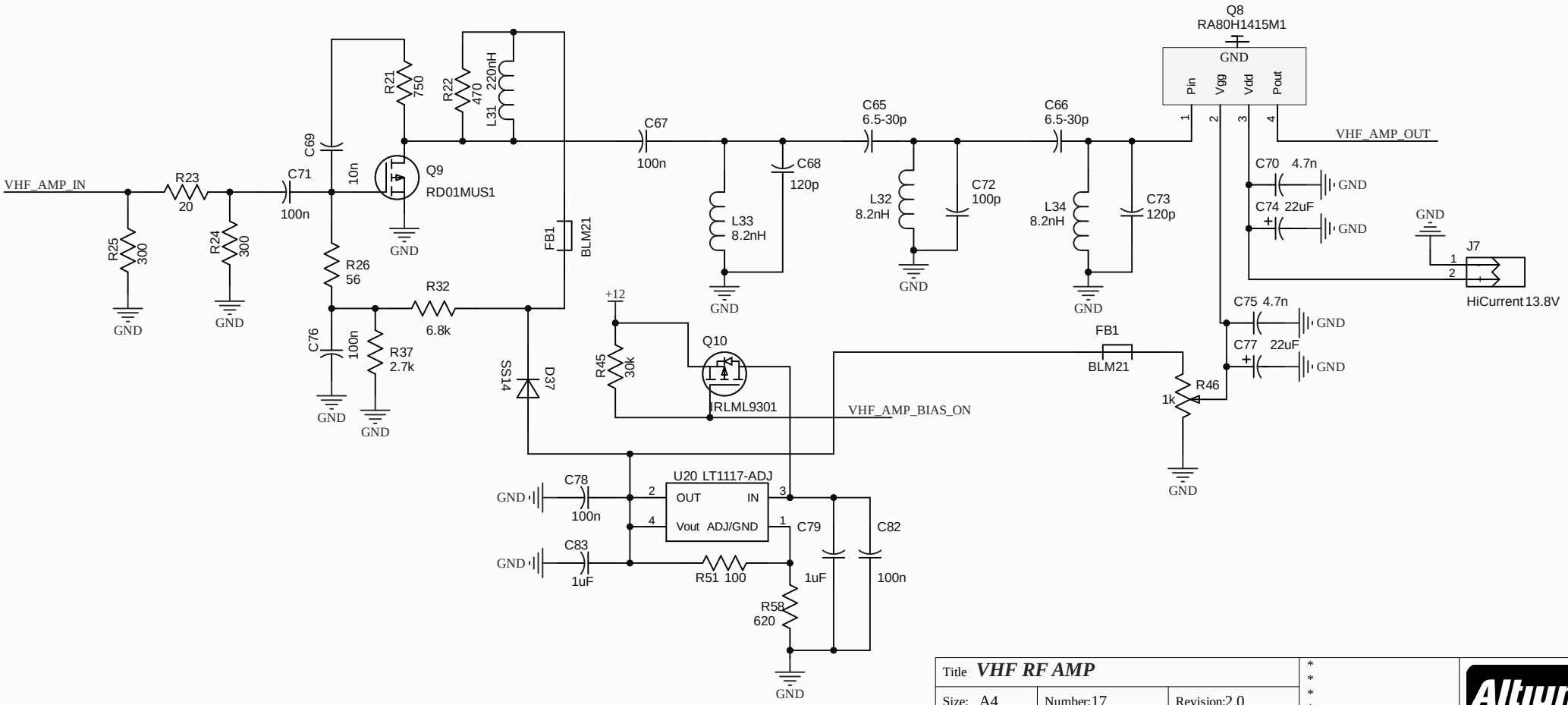






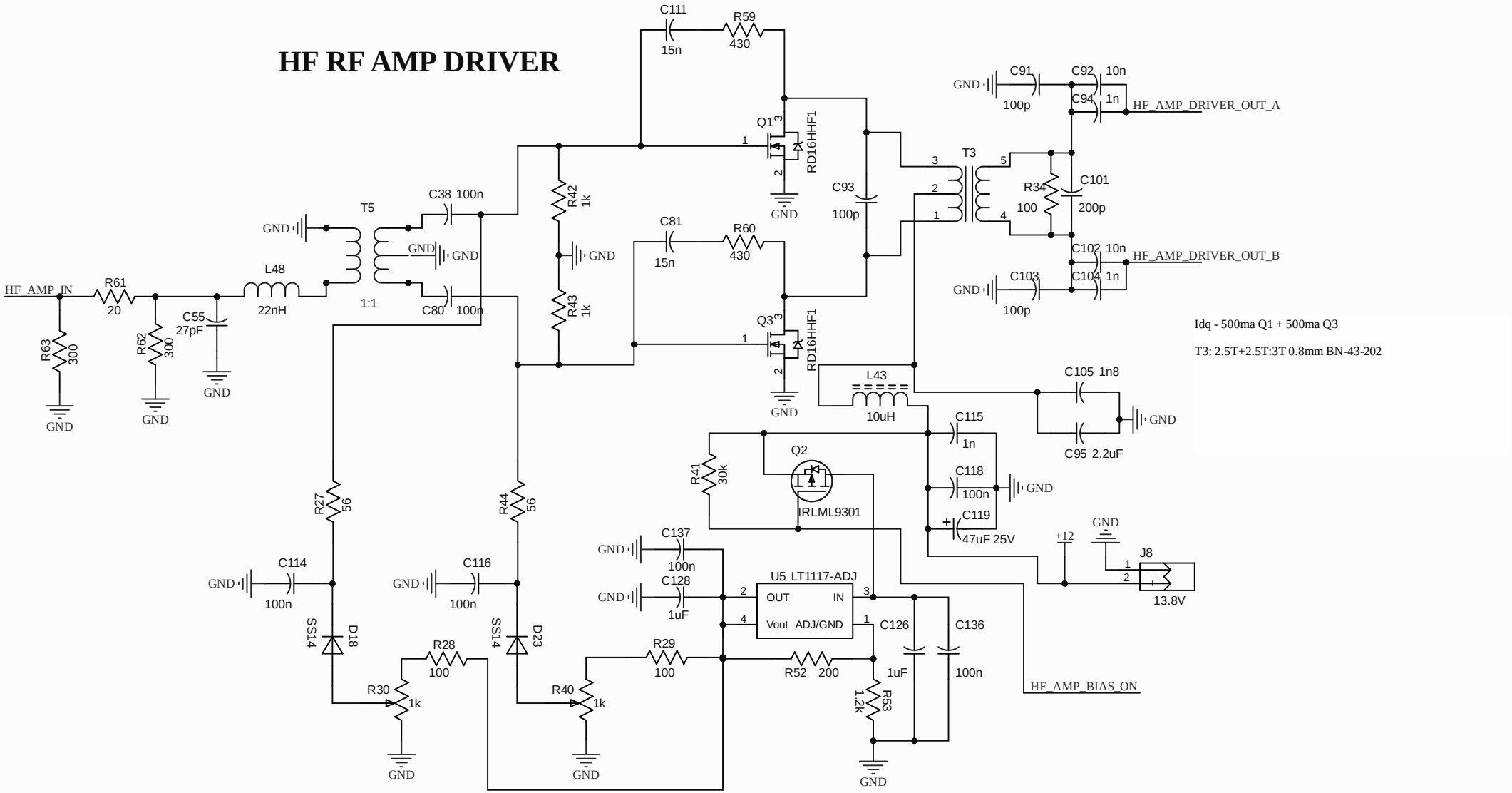
Title	***LNA+ATT***		
Size: A4	Number:16	Revision:2.0	
Date: 02.07.2021	Time: 14:01:29	Sheet 16 of 18	
File: D:\Dropbox\Develop\Projects\WOLF\Scheme\ALTIUM_DESIGNER\RF-UNIT-BIG\LNA.SchDoc			

VHF RF AMP



Title	*VHF RF AMP*		
Size: A4	Number:17	Revision:2.0	
Date: 02.07.2021	Time: 14:01:29	Sheet 17 of 18	
File: D:\Dropbox\Develop\Projects\WOLF\Scheme\ALTIUM_DESIGNER\RF-UNIT-BIG\VHF_AMP.SchDoc			

HF RF AMP DRIVER



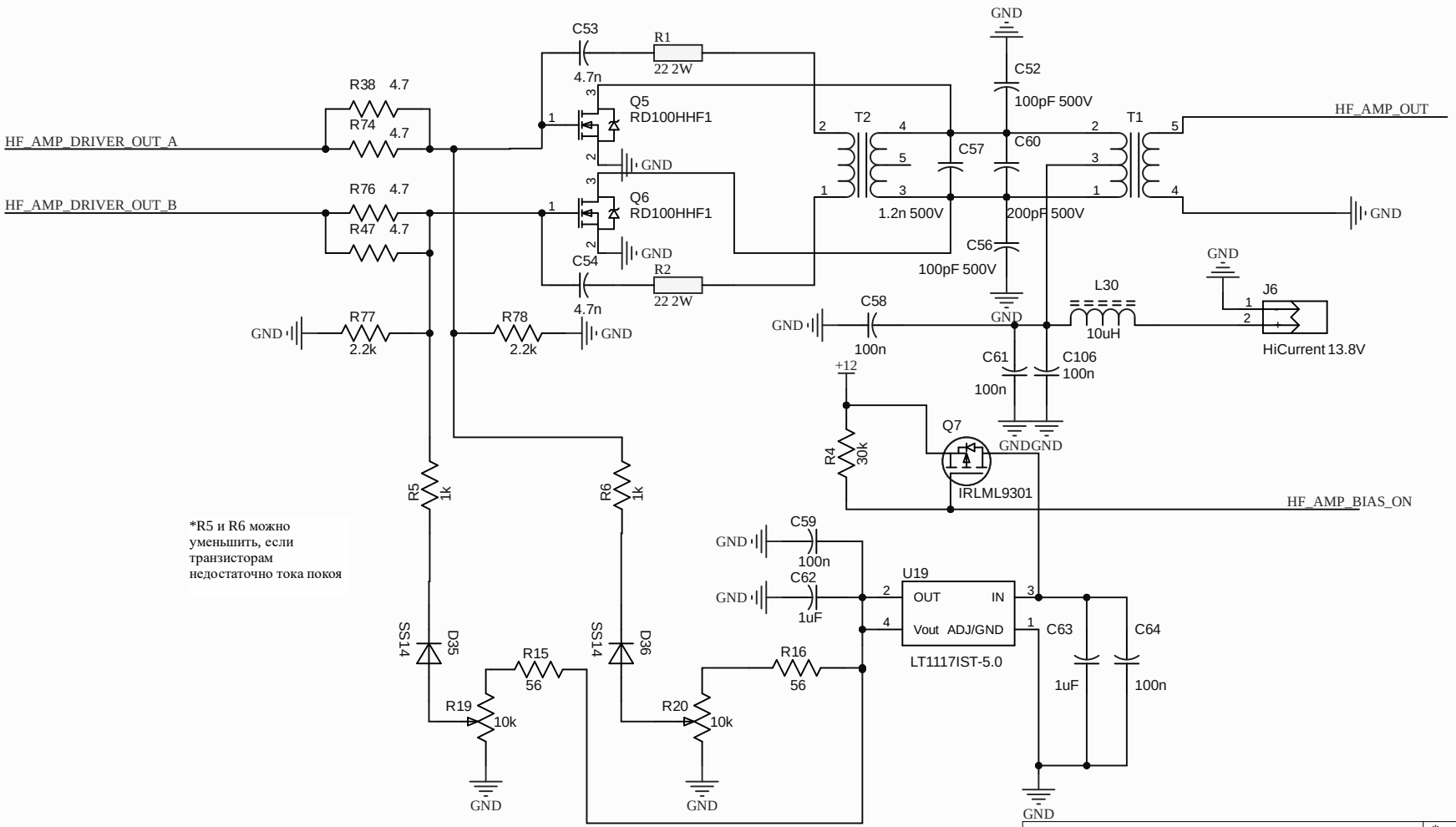
Title	*HF RF AMP DRIVER*		
Size: A4	Number:17	Revision:2.0	
Date: 02.07.2021	Time: 14:01:29	Sheet 17 of 18	
File:	D:\Dropbox\Develop\Projects\WOLF\Scheme\ALTIUM_DESIGNER\RF-UNIT-BIG\HF_AMP_DRIVER.SchDoc		

HF RF AMP

Idq - 500ma Q5 + 500ma Q6

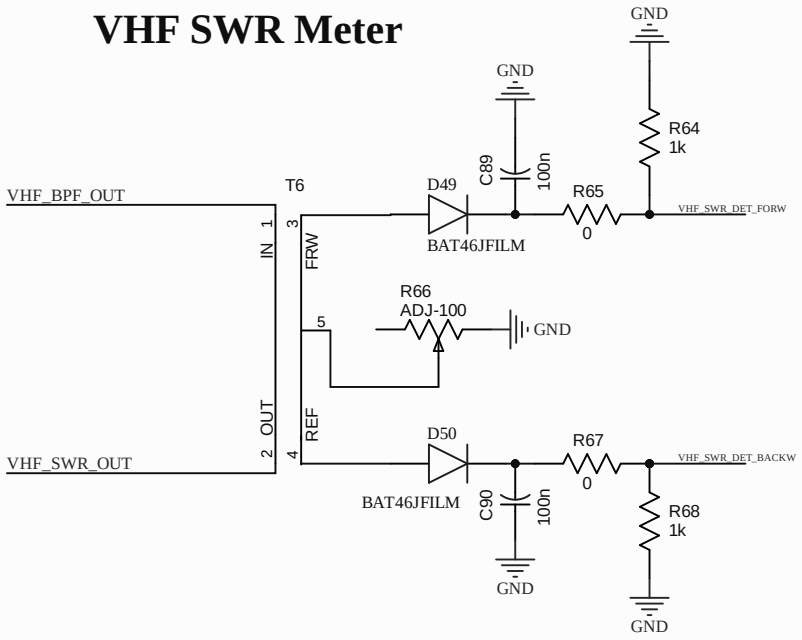
T1: 1T:4T 25ohm 2.3mm coaxial BN-61-002
T2: 2+2T:1T 0.8mm BN43-202
L30: 3T 1mm BN43-202

C57, 60, C52, C56 - подбираются для равномерного АЧХ



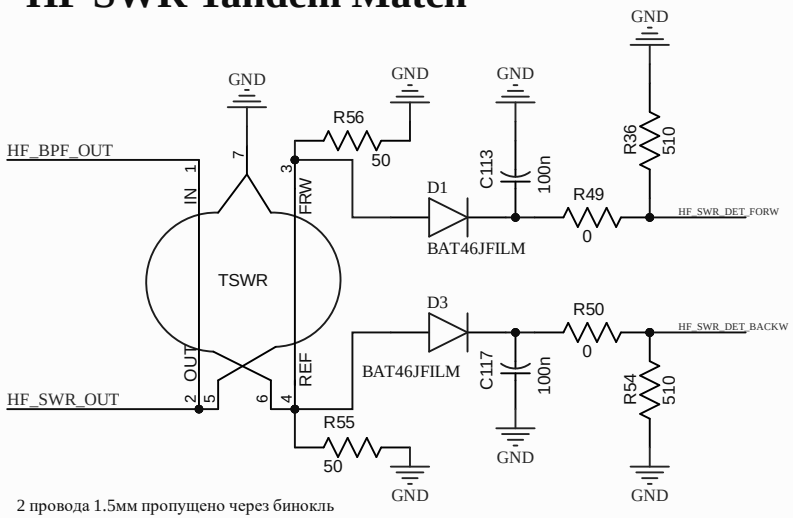
Title	*HF RF AMP*		
Size: A4	Number:17	Revision:2.0	
Date: 02.07.2021	Time: 14:01:30	Sheet 17 of 18	
File: D:\Dropbox\Develop\Projects\WOLF\Scheme\ALTIUM_DESIGNER\RF-UNIT-BIG\HF_AMP.SchDoc			

VHF SWR Meter



Title	***VHF SWR Meter***			
Size: A4	Number:18	Revision:2.0		
Date: 02.07.2021	Time: 14:01:30	Sheet 18 of 18		
File: D:\Dropbox\Develop\Projects\WOLF\Scheme\ALTIUM_DESIGNER\RF-UNIT-BIG\SWR_VHF.SchDoc				

HF SWR Tandem Match

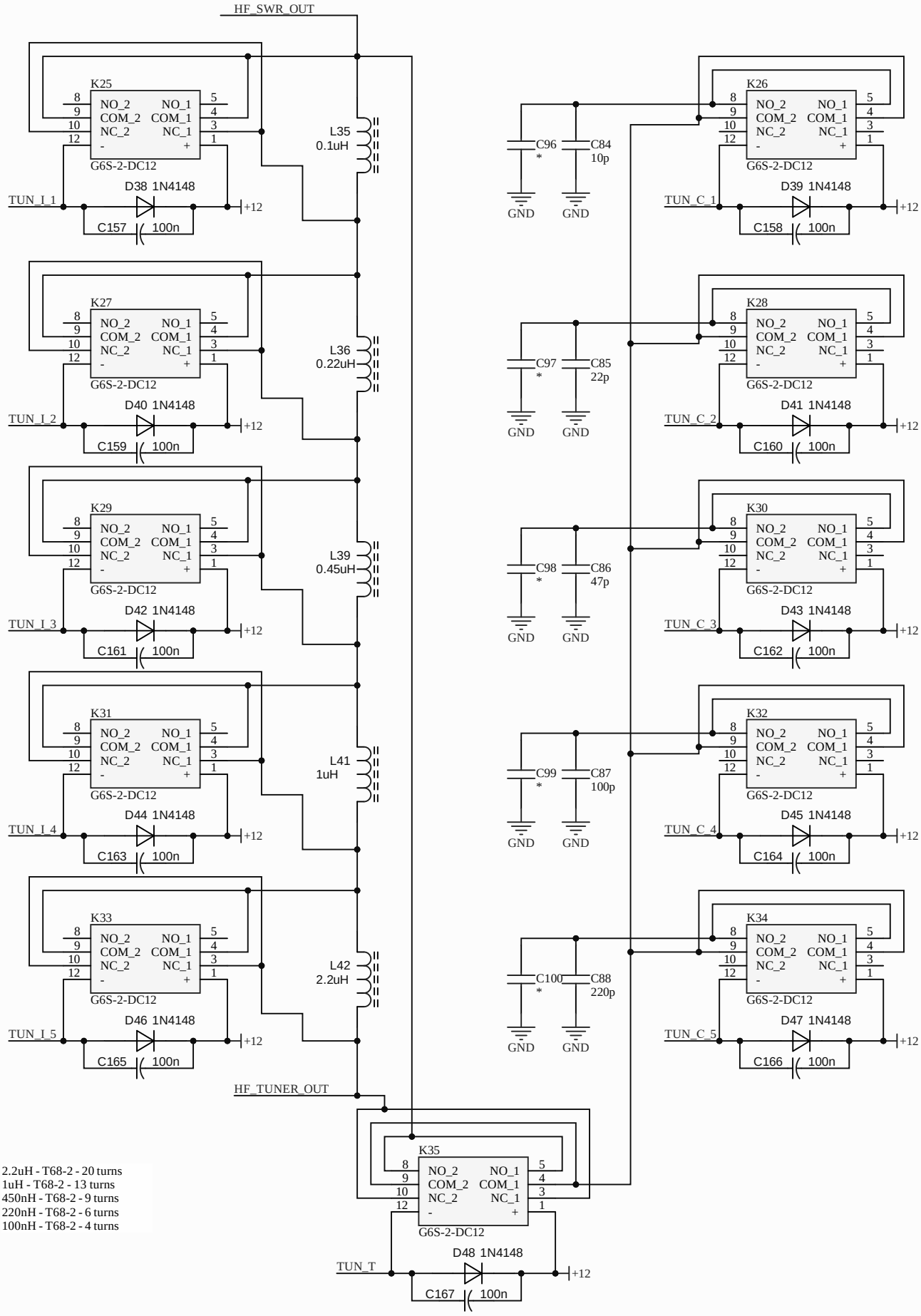


2 провода 1.5мм пропущено через бинокль

по диогонали пропущено и намотано по 20 витков 0.5мм

Title	***HF SWR Meter***		
Size: A4	Number:18	Revision:2.0	
Date: 02.07.2021	Time: 14:01:30	Sheet 18 of 18	
File:	D:\Dropbox\Develop\Projects\WOLF\Scheme\ALTIUM_DESIGNER\RF-UNIT-BIG\SWR_HF.SchDoc		

HF Antenna Tuner



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	***HF Tuner***		
Size: A4	Number:18	Revision:2.0	
Date: 02.07.2021	Time: 14:01:30	Sheet 18 of 18	
File: D:\Dropbox\Develop\Projects\WOLF\Scheme\ALTIUM_DESIGNER\RF-UNIT-BIG\HF_TUNER.SchDoc			

Comment	Description	Designator	Footprint	Quantity
	Capacitor NP0 HiVolt	C66, C67, C96, C99, C100	CAP_1206	5
1k	RES_0805	R49, R50, R86, R87	RES_0805	4
0.1uH	Inductor	L35	IND_FERRITE_CORE_3	1
0.22uH	Inductor	L36	IND_FERRITE_CORE_3	1
0.45uH	Inductor	L39	IND_FERRITE_CORE_3	1
1:1	1:1	T1	TRANSF_ACD852	1
1k	RES_0805	R5, R6, R35, R40, R43, R64, R68	RES_0805	7
1k	RES_0805	R53, R33, R37, R69, R70, R71, R72	RESC3012N0X-40HL35	7
1n	CAP_0805	C112, C125, C126	CAP_0805	3
1n	CAP_0805	C137	C-0805_M	1
1n	CAP_1206	C84, C109	CAP_1206	2
1n8	CAP_1206	C106	CAP_1206	1
1N4148	1N4148	D6, D9, D8, D8, D9, D10, D11, D12, D13, D14, D15, D16, D17, D18, D20, D21, D22, D24, D25, D30, D27, D28, D29, D30, D31, D32, D38, D39, D40, D41, D42, D43, D46, D47, D48, D49, D50, D51, D76, D83, L136, C135	S114	37
1uF	CAP_0805	C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C24, C25, C26, C27, C28, C29, C30, C31, C32, C33, C34, C35, C36, C37, C38, C39, C40, C41, C42, C43, C44, C45, C46, C47, C48, C49, C50, C51, C52, C53, C54, C55, C56, C57, C58, C59, C60, C61, C62, C63, C64, C65, C66, C67, C68, C69, C70, C71, C72, C73, C74, C75, C76, C77, C78, C79, C80, C81, C82, C83, C84, C85, C86, C87, C88, C89, C90, C91, C92, C93, C94, C95, C96, C97, C98, C99, C100, C101, C102, C103, C104, C105, C106, C107, C108, C109, C110, C111, C112, C113, C114, C115, C116, C117, C118, C119, C120, C121, C122, C123, C124, C125, C126, C127, C128, C129, C130, C131, C132, C133, C134, C135, C136, C137, C138, C139, C140, C141, C142, C143, C144, C145, C146, C147, C148, C149, C150, C151, C152, C153, C154, C155, C156, C157, C158, C159, C160, C161, C162, C163, C164, C165, C166, C167, C168, C169, C170, C171, C172, C173, C174, C175, C176, C177, C178, C179, C180, C181, C182, 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100n	CAP_0805	C103	C-0805_M	1
100n	CAP_1206	C58, C61, C168	CAP_1206	3
100p	CAP_0805	C13	CAP_0805	1
100p	CAP_0805	C127, C132	C-0805_M	2
100p	Capacitor	C97	B12053A0803X000	1
100p	Capacitor NP0 HiVolt	C29, C31, C82, C83, C85	CAP_1206	5
100pF 500V	CAP_1206	C103	CAP_1206	1
100pF 500V	CAP_1206	C52, C56	CAP_1206	2
10p	CAP_0805	C68, C73	CAP_0805	2
10p	Capacitor NP0 HiVolt	C80	CAP_1206	1
10p	Capacitor NP0 HiVolt	C34, C36	CAP_1206	2
10uH	Inductor	L26, L28, L40	IND_FERRITE_CORE_3	3
10k	Capacitor NP0 HiVolt	C45, C49, C48	CAP_1206	3
10k	RES_0805	R52	RES_0805	1
180nH	Inductor	L1, L2, L3	IND_FERRITE_CORE_3	3
10n	CAP_1206	C101	CAP_1206	1
10nF 500V	CAP_1206	C95	CAP_1206	1
10uH	IND_1206	L30	IND_1206	1
10p	Capacitor	C98	B12053A0803X000	1
10k	Capacitor NP0 HiVolt	C46, C42	CAP_1206	2
10k	RES_0805	R24, R25, R82, R83	RES_0805	4
10p	Capacitor NP0 HiVolt	C81	CAP_1206	1
10k	RES_1206	R58, R60	RES_1206	2
10k	RES_1206	R57	RES_1206	1
10k	Capacitor NP0 HiVolt	C43, C47	CAP_1206	2
1M	RES_0805	R88, R94	RES_0805	2
1MΩ	RES_0805	R1, R7, R8, R9, R10, R11, R12	RES_0805	7
1M	RES_0805	R16	RES_0805	1
180nH	Inductor	L4, L5, L6	IND_FERRITE_CORE_3	3
1M	RES_1206	R75	RES_1206	1
180nH	Inductor	L10, L11, L12	IND_FERRITE_CORE_3	3
2N7-07-0A4-6RJ	Undefined or Miscellaneous	L13	H0X0704MRJF	1
20022-0200	20022-0200	KAY1, OUT	20022-0200	1
2N3	SMA	Q7	SS-5483	1
2-DG0180R42	Integrated Circuit	U8, U32	CCFDSF4X80-1310-BN	2
470 - 1k	SMD	R35, R40, R48	SMD	3
330, 20k	2206W-1-103LF	R18, R30	2206W-1	2
330, 100	SMD	R38	SMD	1
20071	SMA	J1	SS-5483	1
20072	SMA	J2	SS-5483	1
Accom IM06	Accom IM06	U9, U22	IM06G8	2
3CT-MUF1M	Diode	D3, D4, D49, D50	SOD353X1167N	4
3AV99	3AV99	Q7	SOT23	1
3LM01	3LM01	R31	SMD_0805	1
2N3123	N-Channel Logic Level Enhancement Mode Field Effect Transistor, 1.7 V, -55 to 150 degC, 3-Pin SOT-23, Reel, Tape and Reel	Q12	FAIR-SOT23-3_V	1
3N5	SMA	J3	SS-5483	1
3-0733424-1	CP-1731	J4	59131-0126	1
3455 -3-DC12	Relay or Contactor	K1, K2, K3, K4, K5, K6, K7, K8, K9, K10, K11, K12, K13, K14, K15, K16, K17, K18, K19, K20, K21, K22, K23, K24, K25, K26, K27, K28, K29, K30, K31, K32, K33, K34, K35	G5SDC12	35
3ACurrent-110V	DIO	D5, D7	1SB6717-2	2
3HUM-0001	MOSFET	Q2, Q7, Q10, Q11	SOT23	4
3-7181120	Integrated Circuit	U14	7122A4P4204-460X770-SP	1
3-8111-577-5.0	Integrated Circuit	U6	7122A9P5842-238-3V	1
13167007-5.0	13167975-5.0	U39	13167007-ADJ	1
13167007-ADJ	13167975-ADJ	U6, U30	13167007-ADJ	2
3CT-HSB5CA4D	CP-1731	J5	59131-0126	1
4n392	Integrated Circuit	U4	CP-4X6P4X204-430X340-SN	1
5pin SIP4 / SIP5/SIP6	PGA-120 / SIP7/SIP8	U3	SOT89	1
5A60N1416SM3	5A60N1416SM3	U5	5A60N1416SM3	1
5V10MA01	5V10MA01	U9	SOT89	1
5V20HHF1	5V20HHF1	U5, U13	HD16_V2	2
5V20W4F1	5V20W4F1	U5, U9	W2100_V2	2
5MA25.0A-TR	Diode	D7	SMB/DIECATE	1
6n4	S114	D48, D23, D33, D35, D37	S114	5
7SYDC5B07R	Integrated Circuit	U1, U2, U3, U7, U11	CCFDSF4X40-120-18N	5
8WR_TANDEM_MATCH	8WR_TANDEM_MATCH	U1	8WR_TANDEM_MATCH	1
8WR_VHF	8WR_VHF	T6	8WR_VHF	1
9WA87_HF1	TRANSF_HF1	T2	TRANSF_HF1	1
9WA93_HF2	TRANSF_HF2	T3	TRANSF_HF2-3	1
9WA97_HF3	TRANSF_HF3	T4	TRANSF_HF3	1