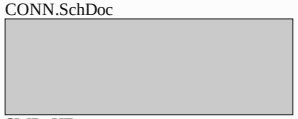
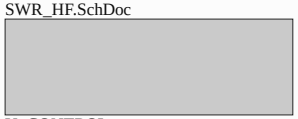
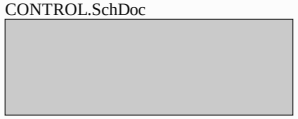
U_CONN
CONN.SchDoc



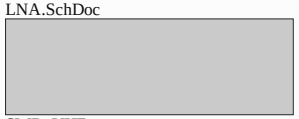
SWR_HF
SWR_HF.SchDoc



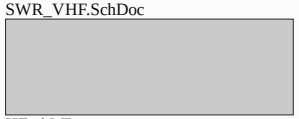
U_CONTROL
CONTROL.SchDoc



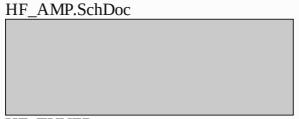
U_LNA
LNA.SchDoc



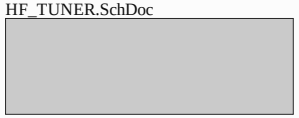
SWR_VHF
SWR_VHF.SchDoc



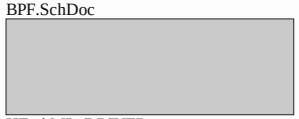
HF_AMP
HF_AMP.SchDoc



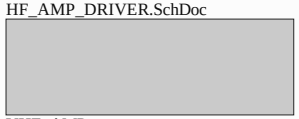
HF_TUNER
HF_TUNER.SchDoc



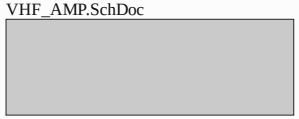
U_BPF
BPF.SchDoc



HF_AMP_DRIVER
HF_AMP_DRIVER.SchDoc

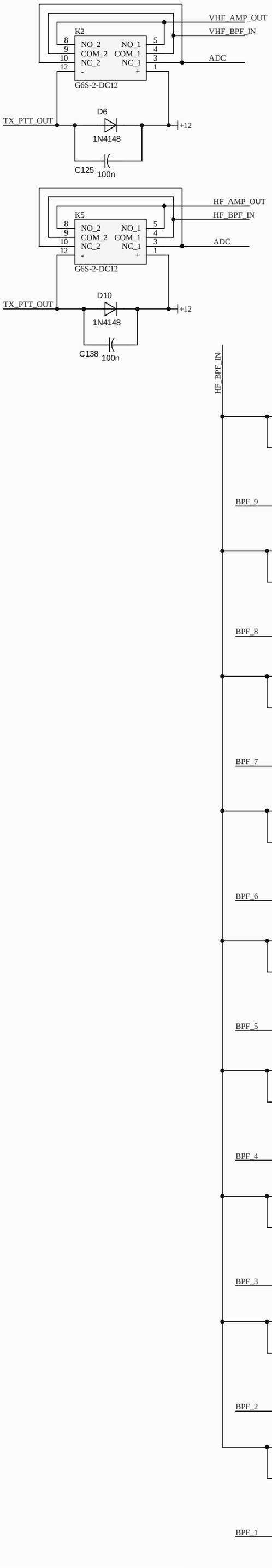


VHF_AMP
VHF_AMP.SchDoc



Title	***RF-UNIT BIG***		
Size: A4	Number:12	Revision:2.0	
Date: 21.06.2021	Time: 16:06:12	Sheet 12 of 18	
File:	D:\Dropbox\Develop\Projects\WOLF\Scheme\ALTIUM_DESIGNER\RF-UNIT-BIG\RF-UNIT-BIG.SCHDOC		

BPF

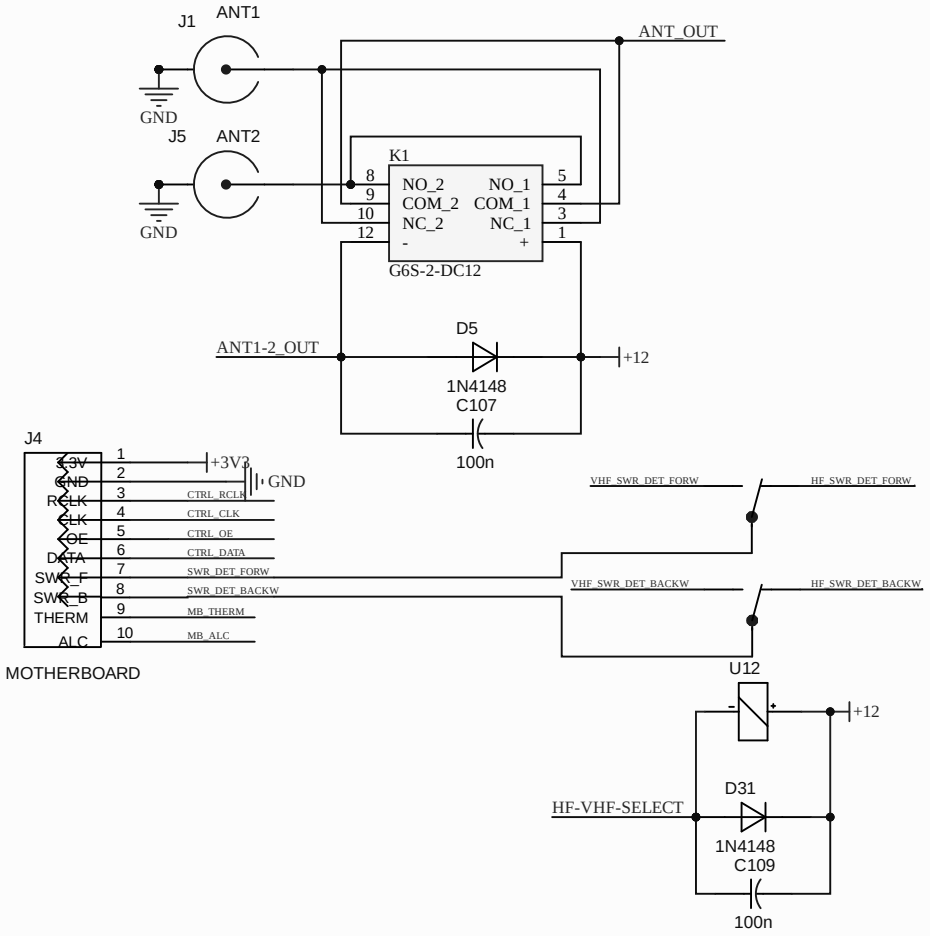


0.5mm cord

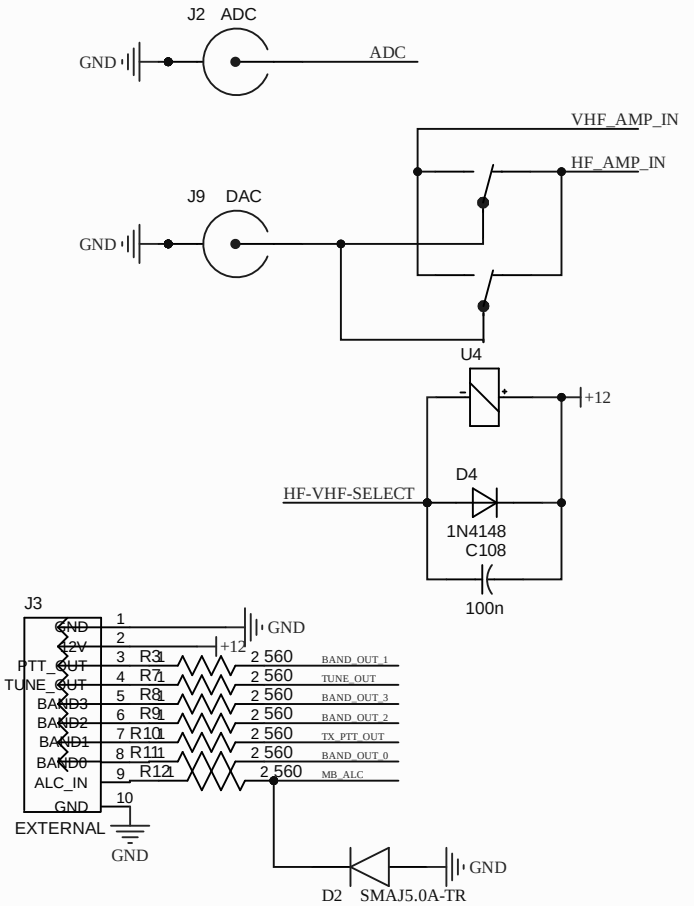
2200m - 158uH - M1000HM3-5 K16*10*4,5 - 19.5 turns
160m - 11uH - T68-2 - 44 turns
80m - 6.8uH - T68-2 - 35 turns
40m - 2.7uH - T68-2 - 22 turns
30m - 1.6uH - T68-2 - 17 turns
20m - 1.6uH - T68-2 - 17 turns
17,15,12m - 820nH - T68-2 - 12 turns
CB,10m - 1uH - T68-2 - 13 turns
6m - 680nH - T50-6 - 12 turns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

Title	*BPF*		
Size: A2	Number:13	Revision:2.0	
Date: 21.06.2021	Time: 16:06:12	Sheet 13 of 18	
File: D:\Dropbox\Develop\Projects\WOLF\Scheme\ALTIUM_DESIGNER\RF-UNIT-BIG\BPF.SchDoc			

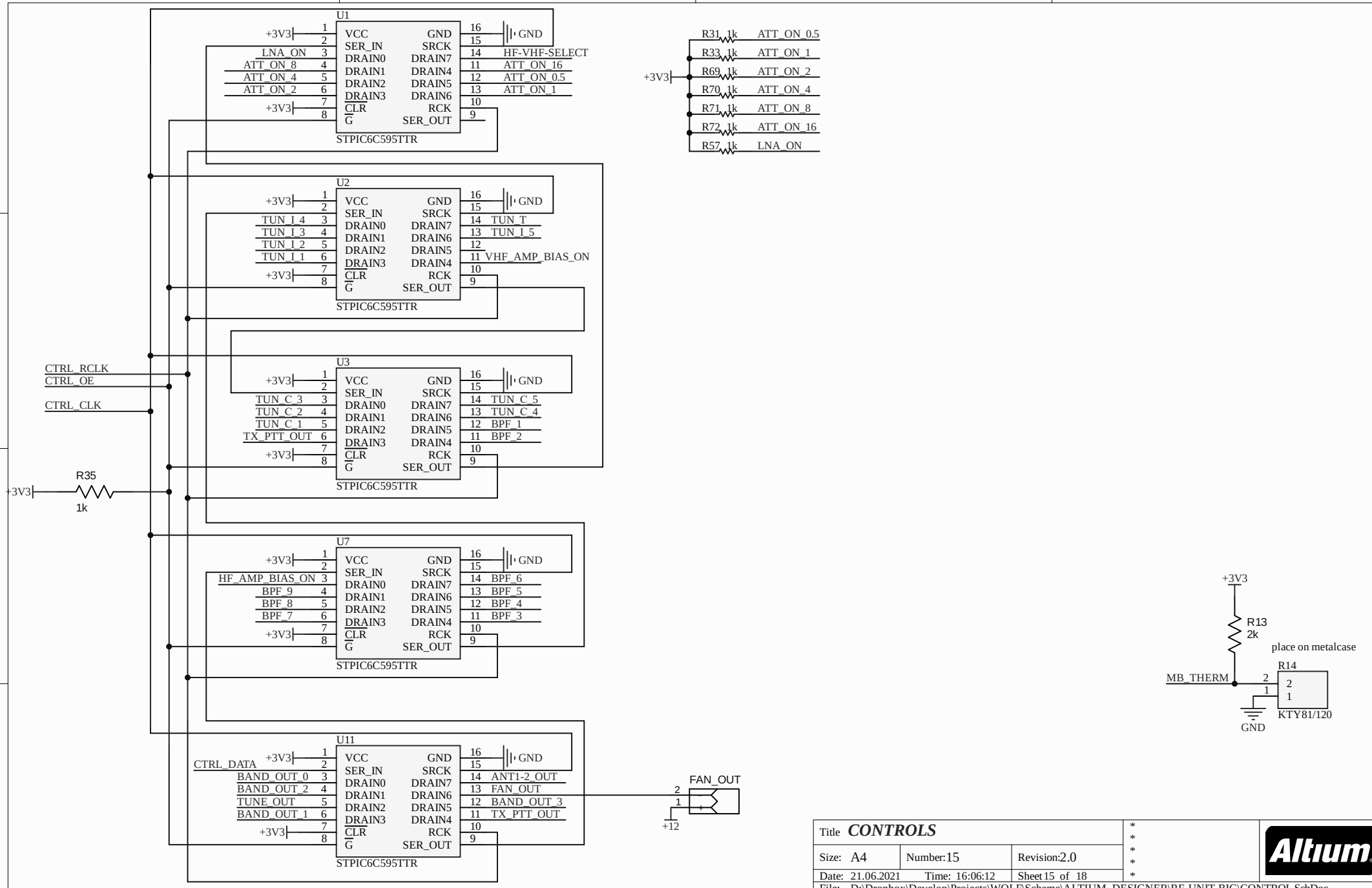
TXRX_COMUTATOR



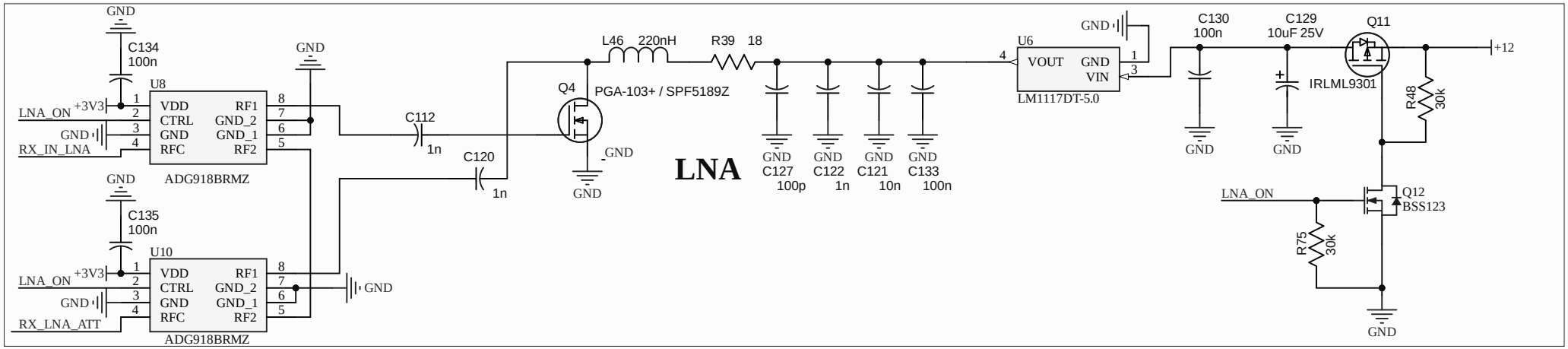
CONN

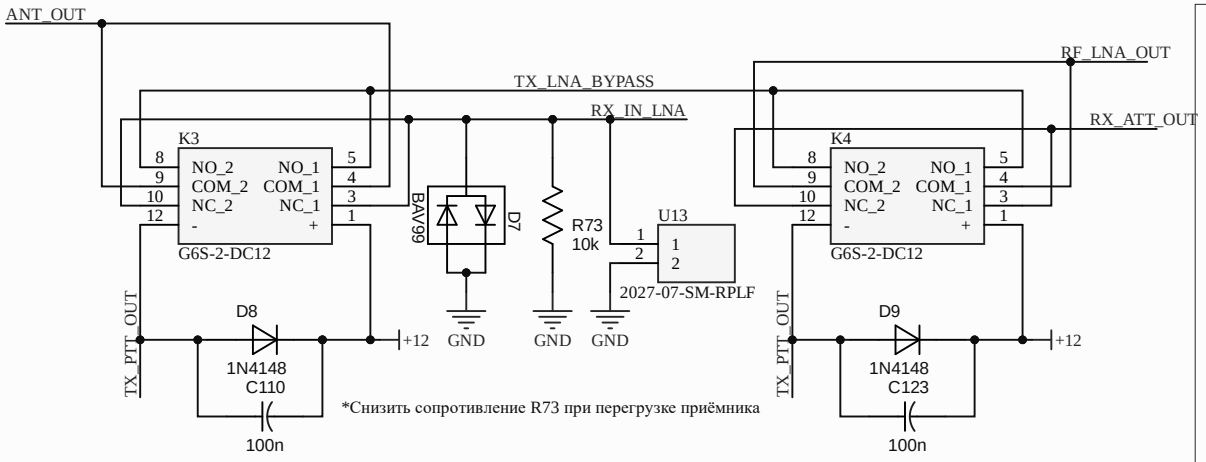


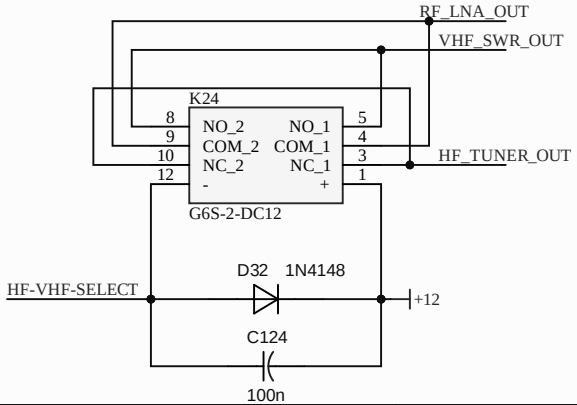
Title	***CONNECTIONS***		
Size: A4	Number:14	Revision:2.0	
Date: 21.06.2021	Time: 16:06:12	Sheet 14 of 18	
File: D:\Dropbox\Develop\Projects\WOLF\Scheme\ALTIUM_DESIGNER\RF-UNIT-BIG\CONN.SchDoc			

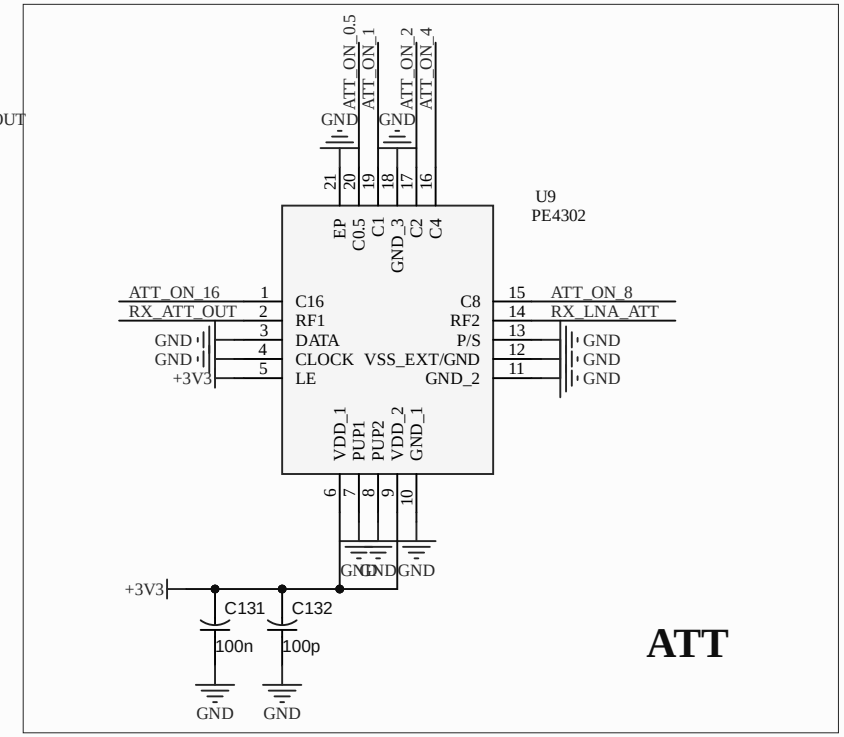


Title	***CONTROLS***		
Size: A4	Number:15	Revision:2.0	
Date: 21.06.2021	Time: 16:06:12	Sheet 15 of 18	
File: D:\Dropbox\Develop\Projects\WOLF\Scheme\ALTIUM_DESIGNER\RF-UNIT-BIG\CONTROL.SchDoc			



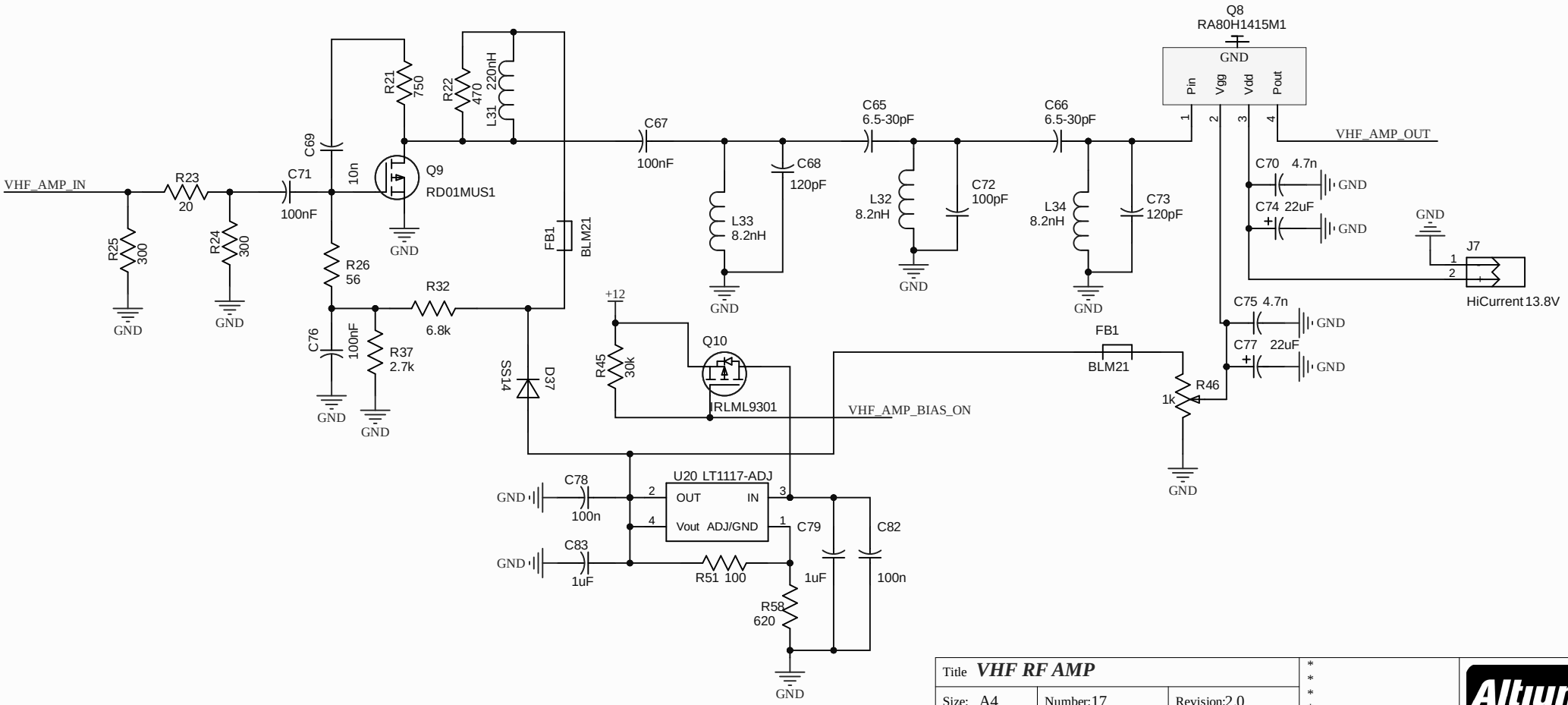






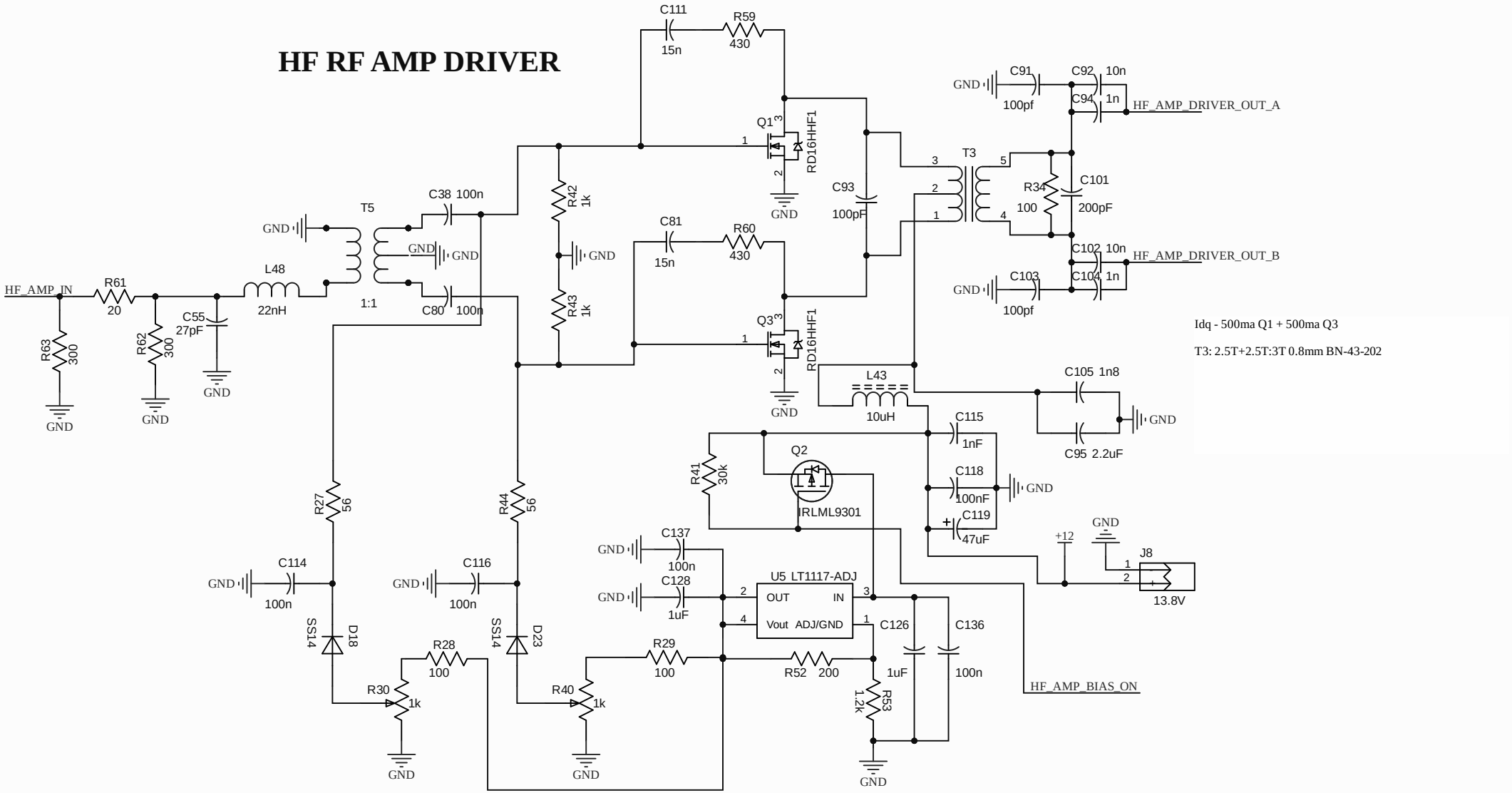
Title	***LNA+ATT***		
Size: A4	Number:16	Revision:2.0	
Date: 21.06.2021	Time: 16:06:13	Sheet 16 of 18	
File: D:\Dropbox\Develop\Projects\WOLF\Scheme\ALTIUM_DESIGNER\RF-UNIT-BIG\LNA.SchDoc			

VHF RF AMP



Title	*VHF RF AMP*		
Size: A4	Number:17	Revision:2.0	
Date: 21.06.2021	Time: 16:06:13	Sheet 17 of 18	
File: D:\Dropbox\Develop\Projects\WOLF\Scheme\ALTIUM_DESIGNER\RF-UNIT-BIG\VHF_AMP.SchDoc			

HF RF AMP DRIVER

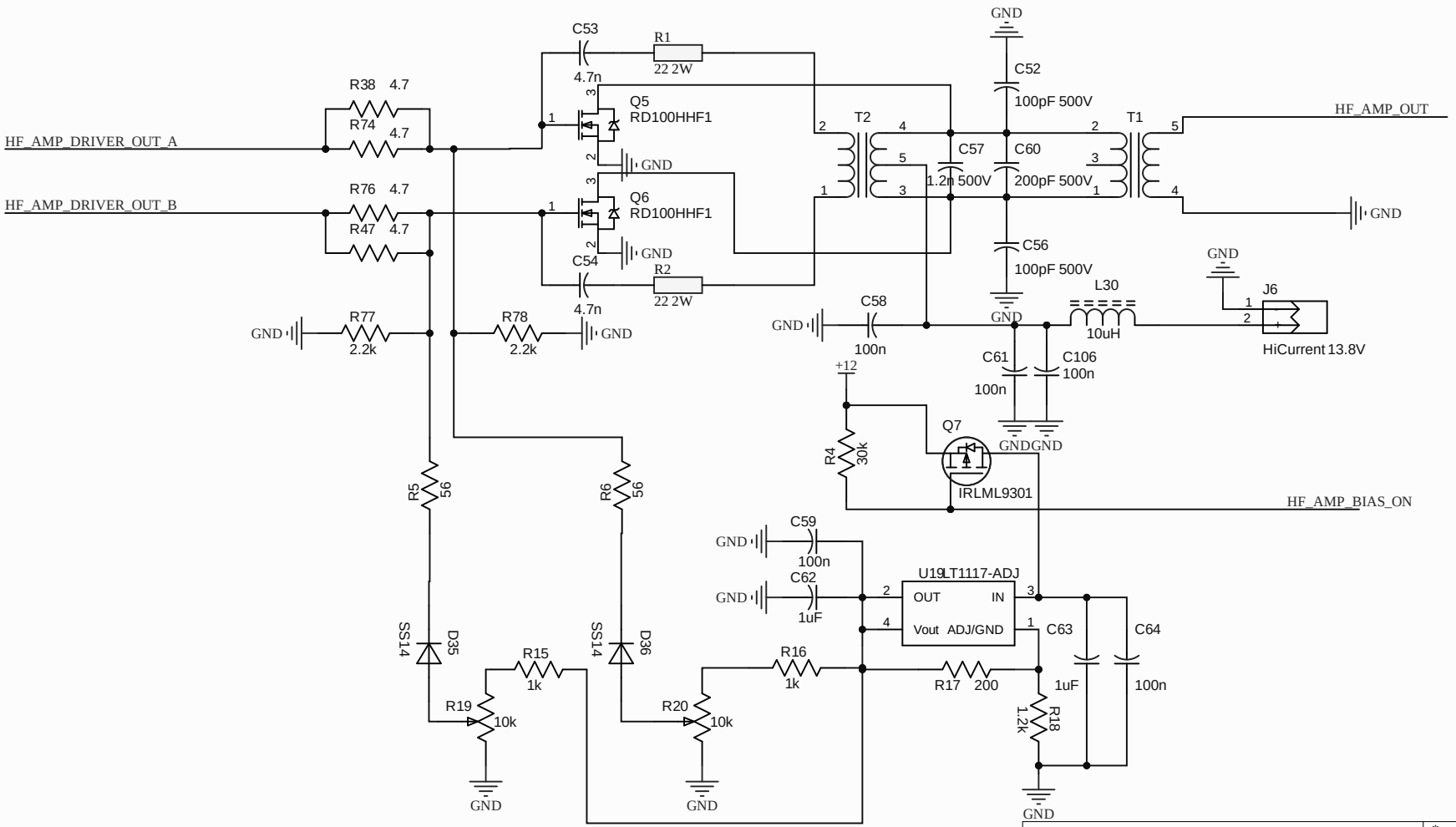


Title	*HF RF AMP DRIVER*		
Size: A4	Number:17	Revision:2.0	
Date: 21.06.2021	Time: 16:06:13	Sheet 17 of 18	
File:	D:\Dropbox\Develop\Projects\WOLF\Scheme\ALTIUM_DESIGNER\RF-UNIT-BIG\HF_AMP_DRIVER.SchDoc		

HF RF AMP

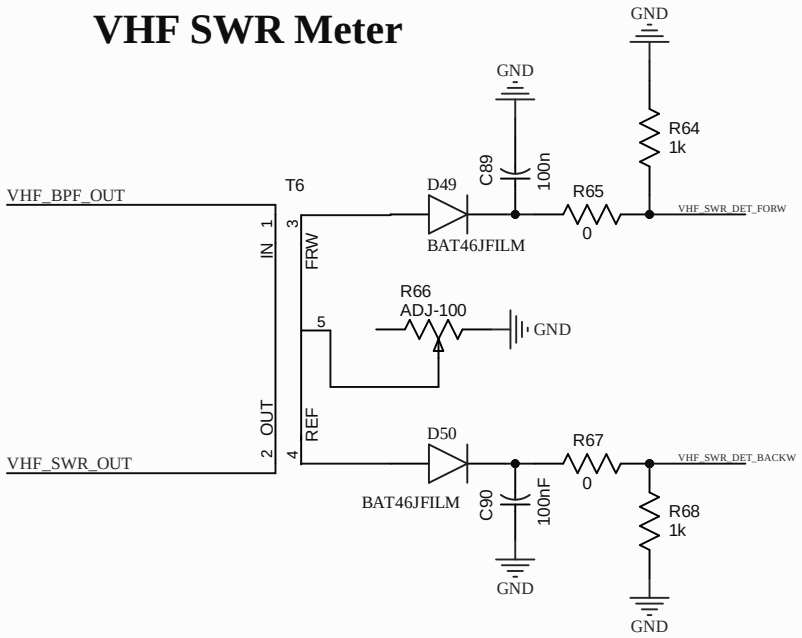
Idq - 500ma Q5 + 500ma Q6

T1: 1T:4T 25ohms coaxial BN-61-002
T2: 13+13T:1T 0.8mm FT-82-43-TR



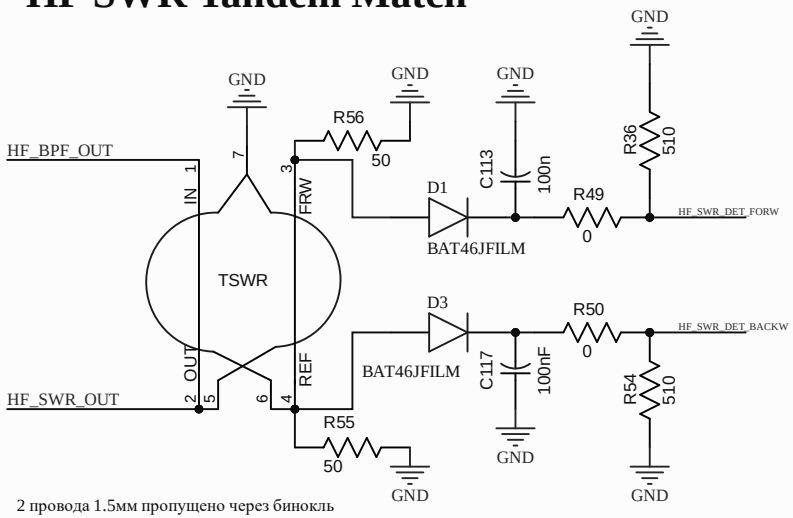
Title	*HF RF AMP*		
Size: A4	Number:17	Revision:2.0	
Date: 21.06.2021	Time: 16:06:13	Sheet 17 of 18	
File: D:\Dropbox\Develop\Projects\WOLF\Scheme\ALTIUM_DESIGNER\RF-UNIT-BIG\HF_AMP.SchDoc			

VHF SWR Meter



Title	***VHF SWR Meter***		
Size: A4	Number:18	Revision:2.0	
Date: 21.06.2021	Time: 16:06:13	Sheet 18 of 18	
File: D:\Dropbox\Develop\Projects\WOLF\Scheme\ALTIUM_DESIGNER\RF-UNIT-BIG\SWR_VHF.SchDoc			

HF SWR Tandem Match

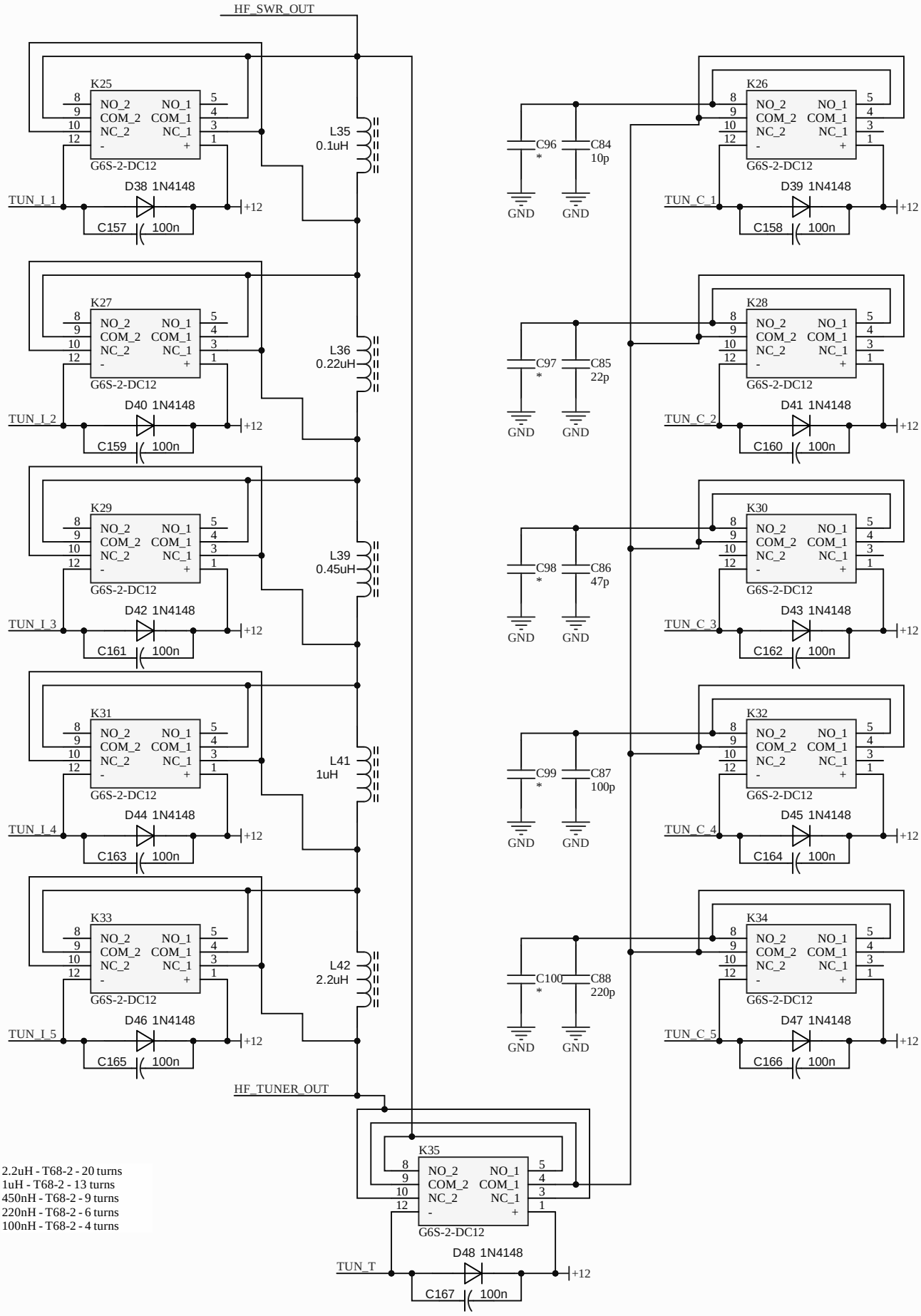


2 провода 1.5мм пропущено через бинокль

по диогонали пропущено и намотано по 20 витков 0.5мм

Title	***HF SWR Meter***		
Size: A4	Number:18	Revision:2.0	
Date: 21.06.2021	Time: 16:06:13	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: 21.06.2021	Time: 16:06:13	Sheet 18 of 18	
File: D:\Dropbox\Develop\Projects\WOLF\Scheme\ALTIUM_DESIGNER\RF-UNIT-BIG\HF_TUNER.SchDoc			

Comment	Description	Designator	Footprint	LibRef	Quantity
33n	Capacitor NP0 HiVolt	C1, C2	CAP_1206	0150/2A/0682/2000	2
4p	Capacitor NP0 HiVolt	C3, C5	CAP_1206	0150/2A/0682/2000	2
5p	Capacitor NP0 HiVolt	C4, C9, C6	CAP_1206	0150/2A/0682/2000	3
7p5	Capacitor NP0 HiVolt	C7, C8	CAP_1206	0150/2A/0682/2000	2
10p	Capacitor NP0 HiVolt	C10, C11	CAP_1206	0150/2A/0682/2000	2
20p	Capacitor NP0 HiVolt	C12	CAP_1206	0150/2A/0682/2000	1
22p	Capacitor NP0 HiVolt	C13, C23	CAP_1206	0150/2A/0682/2000	2
25p	Capacitor NP0 HiVolt	C14, C15, C16, C17, C18, C20, C23	CAP_1206	0150/2A/0682/2000	7
30p	Capacitor NP0 HiVolt	C19, C21	CAP_1206	0150/2A/0682/2000	2
33p	Capacitor NP0 HiVolt	C22	CAP_1206	0150/2A/0682/2000	1
40p	Capacitor NP0 HiVolt	C24, C26, C27, C28, C30, C35	CAP_1206	0150/2A/0682/2000	6
47p	Capacitor NP0 HiVolt	C25, C29, C31	CAP_1206	0150/2A/0682/2000	3
56p	Capacitor NP0 HiVolt	C32, C33	CAP_1206	0150/2A/0682/2000	2
75p	Capacitor NP0 HiVolt	C34, C36	CAP_1206	0150/2A/0682/2000	2
100p	Capacitor NP0 HiVolt	C38	CAP_1206	0150/2A/0682/2000	1
100n	CAP_0805	C39, C59, C64, C76, C86, C90, C99, C107, C109, C110, C113, C144, C126, C123, C124, C125, C130, 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	CAP_0805	CAP_0805	53
220p	Capacitor NP0 HiVolt	C40, C42	CAP_1206	0150/2A/0682/2000	2
330p	Capacitor NP0 HiVolt	C41, C43, C44	CAP_1206	0150/2A/0682/2000	3
470p	Capacitor NP0 HiVolt	C45, C47	CAP_1206	0150/2A/0682/2000	2
680p	Capacitor NP0 HiVolt	C46	CAP_1206	0150/2A/0682/2000	1
1n	Capacitor NP0 HiVolt	C48, C49	CAP_1206	0150/2A/0682/2000	2
4.7n	Capacitor NP0 HiVolt	C50, C53, C54	CAP_1206	0150/2A/0682/2000, CAP_1206	3
100pF 500V	CAP_1206	C51, C55	CAP_1206	CAP_1206	2
27pF	CAP_0805	C52	CAP_0805	CAP_0805	1
3.3n 500V	CAP_1206	C57	CAP_1206	CAP_1206	1
220n	CAP_1206	C62, C81, C130	CAP_1206	CAP_1206	3
100pF 500V	CAP_1206	C63	CAP_1206	CAP_1206	1
1nF	CAP_0805	C65, C78, C83, C105, C138	CAP_0805	CAP_0805	5
0.33pF	TZC3F200A120	C66, C68	0150/2C010	CAP_0805	2
680nF	CAP_0805	C67, C75, C76, C90, C127, C128	CAP_0805	CAP_0805	7
220pF	CAP_0805	C69, C73	CAP_0805	CAP_0805	2
10n	CAP_1206	C70, C82, C102	CAP_1206	CAP_1206	3
4.7n	CAP_0805	C72, C79	CAP_0805	CAP_0805	2
100pF	CAP_0805	C77	CAP_0805	CAP_0805	1
10uF	CAPAE_6.6x6.6h5.4	C78, C77	CAPAE_6.6x6.6h5.4	CAPAE_6.6x6.6h5.4	2
1n	CAP_1206	C80, C111	CAP_1206	CAP_1206	2
68p	Capacitor	C84	0150/2A/0682/2000	0150/2A/0682/2000	1
82p	Capacitor	C85	0150/2A/0682/2000	0150/2A/0682/2000	1
47p	Capacitor	C88	0150/2A/0682/2000	0150/2A/0682/2000	1
560p	Capacitor	C87	0150/2A/0682/2000	0150/2A/0682/2000	1
220pF	CAP_1206	C89, C95, C103	CAP_1206	CAP_1206	3
1n	CAP_1206	C94, C108	CAP_1206	CAP_1206	2
2.2uF	CAP_1206	C96, C97	CAP_1206	CAP_1206	1
100nF	Capacitor NP0 HiVolt	C98, C87, C98, C99, C100	CAP_1206	0150/2A/0682/2000	5
100nF	CAP_1206	C101	CAP_1206	CAP_1206	1
10n	CAP_1206	C100	CAP_1206	CAP_1206	1
1n	CAP_0805	C102, C120	CAP_0805	CAP_0805	2
1nF	CAP_0805	C103	CAP_0805	CAP_0805	1
47uF	CAPAE_6.6x6.6h5.4	C104	CAPAE_6.6x6.6h5.4	CAPAE_6.6x6.6h5.4	1
47n	CAP_0805	C121	R-0805_M	CAP_0805	1
1n	CAP_0805	C127	R-0805_M	CAP_0805	1
470p	CAP_0805	C177, C132	R-0805_M	CAP_0805	2
10uF_35V	CAPAE_5.3x5.3h4.3	C129	CAPAE_5.3x5.3h4.3	CAPAE_5.3x5.3h4.3	1
100n	CAP_0805	C131	R-0805_M	CAP_0805	1
MTS6035-M	Diode	D1, D3, D48, D50	SOD323-3-117N	MTJ4015-M	4
SMA-5.0A-TR	Diode	D2	SMB/SMCA TR	SMLVT3V3	1
1N4148	1N4148	D4, D5, D6, D8, D9, D10, D11, D12, D13, D14, D15, D16, D17, D18, D20, D21, D22, D24, D25, D26, D27, D28, D29, D30, D31, D32, D38, D39, D40, D41, D43, D44, D45, D46, D47, D48	1N14	1N4148	37
MAV99	MAV99	D7	SOT23	MAV99	1
1N14	1N14	D33, D23, D35, D36, D37	1N14	1N14	5
SS202-G000	SS202-G000	FAN_OUT	SS202-G000	SS202-G000	1
BLM21	BLM21	FB1	IND_0805	IND_FERRITE_BEAD	1
MAT6	MAA	J1	S1-5431	S1-5431	1
ADC	MAA	J2	S1-5431	S1-5431	1
EXTERNAL	PTFIN	J3	8013I-0120	8013I-0130	1
MOTHERBOARD	PTFIN	J4	8013I-0120	8013I-0130	1
MOT2	MAA	J5	S1-5431	S1-5431	1
MCurrent 13.8V	V2	J6, J7	5-146317-2	5-146317-2	2
13.8V	V2	J8	5-146317-2	5-146317-2	1
DAC	MAA	J9	S1-5431	S1-5431	1
G6S-2-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	G8S2DC12	G8S-2-DC12	35
330nH	Inductor	L1, L2, L3	IND_FERRITE_CORE_1	IND_FERRITE_CORE	3
680nH	Inductor	L4, L5, L6	IND_FERRITE_CORE_1	IND_FERRITE_CORE	3
1uH	Inductor	L7, L8, L9, L41	IND_FERRITE_CORE_1	IND_FERRITE_CORE	4
400nH	Inductor	L10, L11, L12	IND_FERRITE_CORE_1	IND_FERRITE_CORE	3
0.6uH	Inductor	L13, L14, L15, L16, L17, L38	IND_FERRITE_CORE_1	IND_FERRITE_CORE	5
0.7uH	Inductor	L18, L20, L21	IND_FERRITE_CORE_1	IND_FERRITE_CORE	3
0.8uH	Inductor	L22, L23, L24	IND_FERRITE_CORE_1	IND_FERRITE_CORE	3
1uH	Inductor	L25, L26, L27	IND_FERRITE_CORE_1	IND_FERRITE_CORE	3
250uH	Inductor	L28, L29, L40	IND_FERRITE_CORE_1	IND_FERRITE_CORE	3
10uH	Inductor	L30, L45	IND_FERRITE_CORE	IND_FERRITE_CORE	2
10uH	IND_1206	L31	IND_1206	IND_1206	1
5.2mH	IND_0805	L32, L33, L34	IND_0805	IND_0805	3
0.1uH	Inductor	L35	IND_FERRITE_CORE_1	IND_FERRITE_CORE	1
0.15uH	Inductor	L36	IND_FERRITE_CORE_1	IND_FERRITE_CORE	1
0.45uH	Inductor	L39	IND_FERRITE_CORE_1	IND_FERRITE_CORE	1
2.1uH	Inductor	L42	IND_FERRITE_CORE_1	IND_FERRITE_CORE	1
220mH	IND_1206	L46	IND_1206	IND_1206	1
10mH	IND_0805	L48	IND_0805	IND_0805	1
IRS1844PBF	IRS1844PBF	M1, Q9	R3X6_V2	IRS1844PBF	1
IRLML6301	MOSFET	M1,Q7, Q20, Q11	SOT23	MOSFET_ENH_PD	4
SDA-1024 / SPT1248E	SDA-1024 / SPT1248E	M3	SOT89	SOA-1024	1
IRS1844PBF1	IRS1844PBF1	M5, Q6	R3X6_V2	IRS1844PBF1	1
SHARH-615MG	SHARH-615MG	M6	SHARH-615MG	SHARH-615MG	1
IRX5MU01	IRX5MU01	M9	SOT89	IRX5MU01	1
BSS123	N-Channel Logic Level Enhancement Mode Field Effect Transistor, 1.7 V, -55 to 150degC, 3-Pin SOT-23, RoHS, Tape and Reel	Q12	FAIR-SOT23-3_V	DMP-2000-04084-1	1
22.2W	1243931009	R1, R2	R2C-2W	R2H5001009	2
680	R3_0805	R3, R7, R8, R9, R10, R11, R12	R3_0805	R3_0805	7
10k	R3_0805	R4, R41, R45, R48, R75	R3_0805	R3_0805	5
1k	R3_0805	R5, R6, R26, R27, R44	R3_0805	R3_0805	5
5k	R3_0805	R13	R3_0805	R3_0805	1
ATTINY120	Integrated Circuit	R14	TSSNAR20-4803x173-20	ATTINY_110	1
1k	R3_0805	R15, R16, R35, R42, R43, R64, R68	R3_0805	R3_0805	7
56k	R3_0805	R17, R20	R3_0805	R3_0805	2
47k	R3_0805	R18, R63	R3_0805	R3_0805	2
200 1W	R5A	R19, R39	R5A	R5A	2
470	R3_1206	R21	R3_1206	R3_1206	1
270	R3_1206	R22	R3_1206	R3_1206	1
100	R3_1206	R23, R49	R3_1206	R3_1206	2
330	R3_1206	R24, R25, R62, R69	R3_1206	R3_1206	4
10	R3_0805	R28, R29, R53	R3_0805	R3_0805	3
2k2 3k	R5C	R30, R40, R46	R5C	R5C	3
4	R3_0805	R31, R33, R37, R66, R70, R73, R72	R3C3X3.5X5H0N2.5	CAP_3261-09026-1	7
68k	R3_0805	R32	R3_0805	R3_0805	1
100	R3_1206	R34	R3_1206	R3_1206	1
910	R3_0805	R36, R54	R3_0805	R3_0805	2
5.7k	R3_0805	R38	R3_0805	R3_0805	1
47	R3_1206	R46, R47, R74, R76	R3_1206	R3_1206	4
68	R3_1206	R50	R3_1206	R3_1206	1
0	R3_0805	R48, R56, R65, R67	R3_0805	R3_0805	4
82	R3_1206	R58, R59	R3_1206	R3_1206	2
560	R3_0805	R60	R3_0805	R3_0805	1
430	R3_1206	R61, R80	R3_1206	R3_1206	2
453-300	R8C	R63	R8C	R8C	1
20k	R3_1206	R70	R3_1206	R3_1206	1
47k	R3_0805	R77, R78	R3_0805	R3_0805	2
TRANSZ_HF2	TRANSZ_HF2	T1	TRANSZ_HF2-3	TRANSZ_RF2	1
TRANSZ_HF1	TRANSZ_HF1	T2	TRANSZ_HF1	TRANSZ_RF1	1
TRANSZ_HF3	TRANSZ_HF3	T3	TRANSZ_HF3	TRANSZ_RF3	1
0.1	0.1	T5	TRANSF_ACCR2	TRANSF_ACCR2	1
SMB_Vdd	SMB_Vdd	T6	SMB_Vdd	SMB_Vdd	1
SMB_TANDEM_MATCH	SMB_TANDEM_MATCH	T6/M5	SMB_TANDEM_MATCH	SMB_TANDEM_MATCH	1
ATTINY861SSU	Integrated Circuit	U1, U2, U3, U7, U21	SOP65P5489-32D-1MN	ATTINY261SSU	5
Accuram 8MDE	Accuram 8MDE	U1, U22	8-MSOP	Accuram 8MDE	2
LT1117ST-ADJ	LT1117ST-ADJ	U5, U19, U20	LT1117ST-ADJ	LT1117ST-ADJ	3
LM1117ST-5.0	Integrated Circuit	U6	TO220P981X238-3N	LM1117ST-ADJ	1
ADG5236BRMZ	Integrated Circuit	U8, U10	TQFP65P4600X1100-80N	ADG5236RMZ	2
PIL4302	Integrated Circuit	U9	QFN50P4000X4000X90-25N	PIL4302C-2	1
2027-07-SM-RPLF	Leiterplattenstecker Micro/Fakmicro	U13	2083070MRPLF	2083-07-SM-RPLF	1