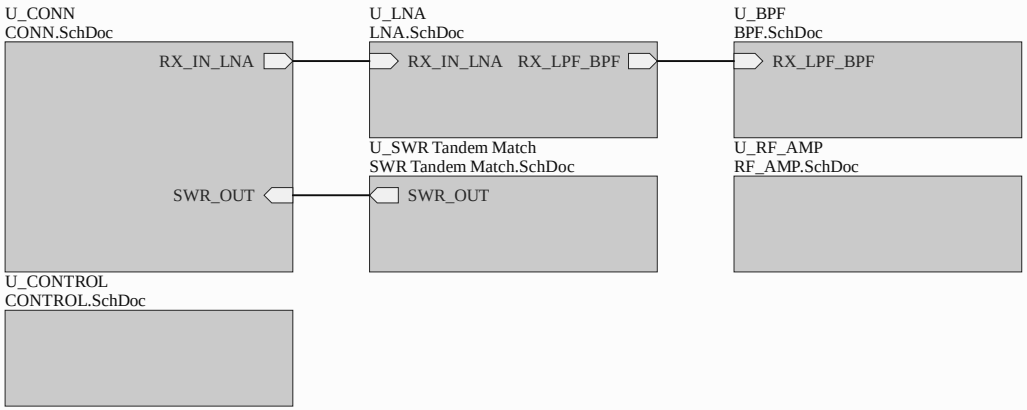
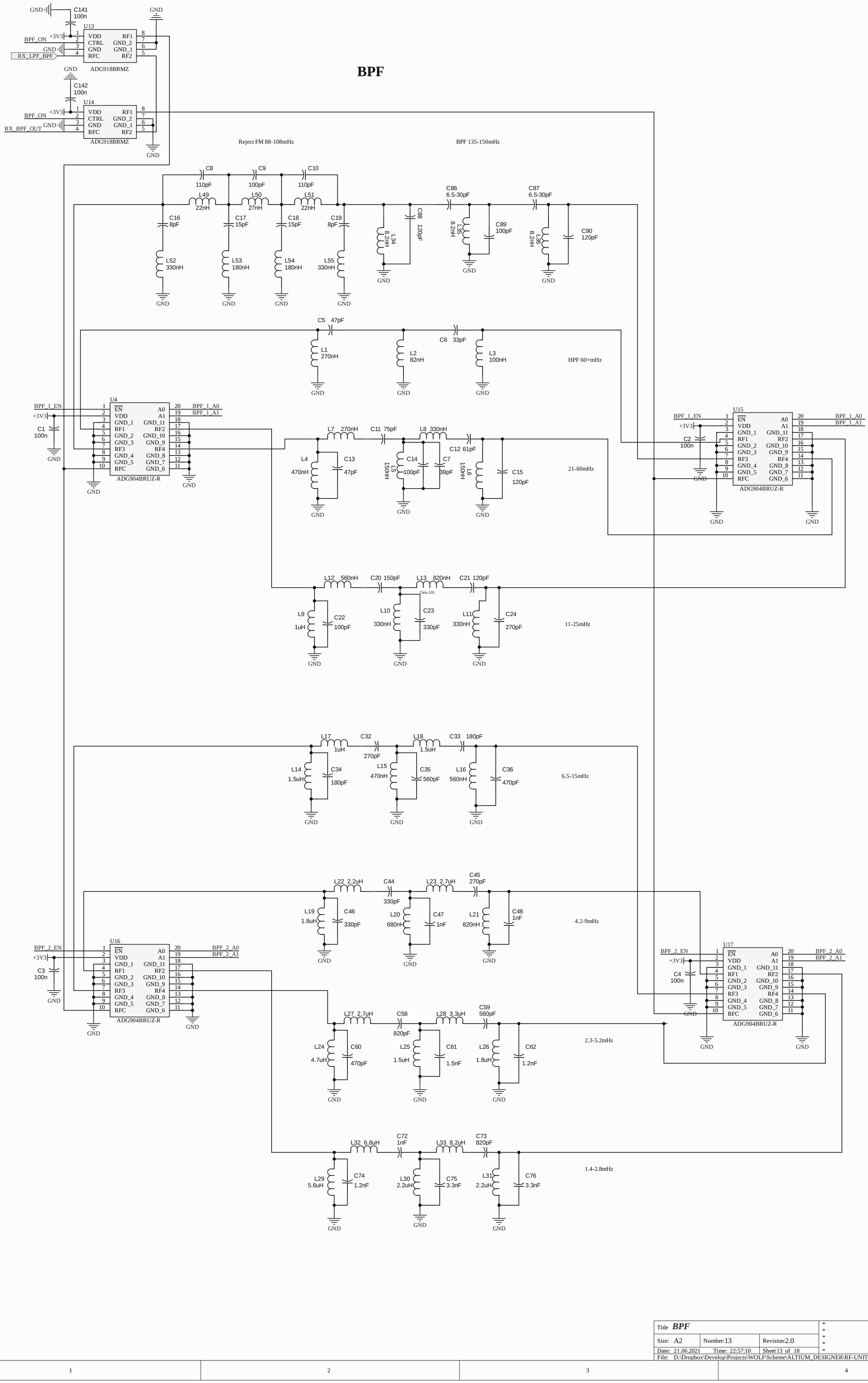


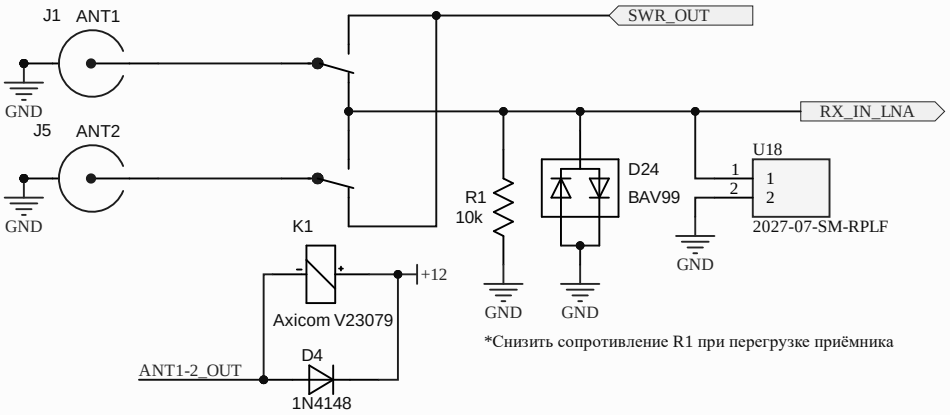
Title	***RF-UNIT***		
Size: A4	Number:12	Revision:2.0	
Date: 21.06.2021	Time: 22:57:10	Sheet 12 of 18	
File: D:\Dropbox\Develop\Projects\WOLF\Scheme\ALTIUM_DESIGNER\RF-UNIT-QRP\RF-UNIT-QRP.SCHDOC			

BPF



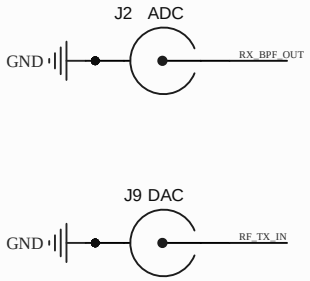
Title	***BPF***		
Size: A2	Number:13	Revision:2.0	
Date: 21.06.2021	Time: 22:57:10	Sheet 13 of 18	
File:	D:\Dropbox\Develop\Projects\WOLF\Scheme\ALTIUM_DESIGNER\RF-UNIT-QRP\BPF.SchDoc		

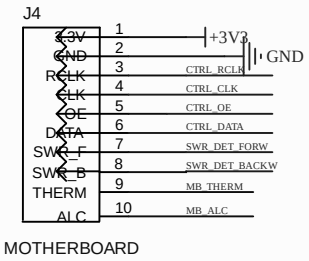
TXRX_COMUTATOR

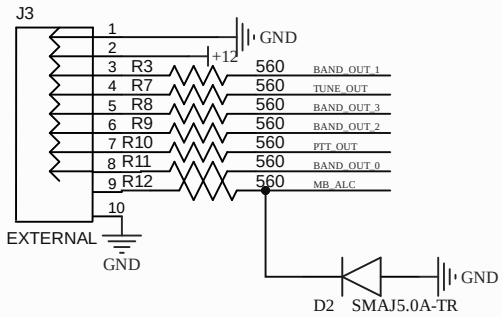


*Снизить сопротивление R1 при перегрузке приёмника

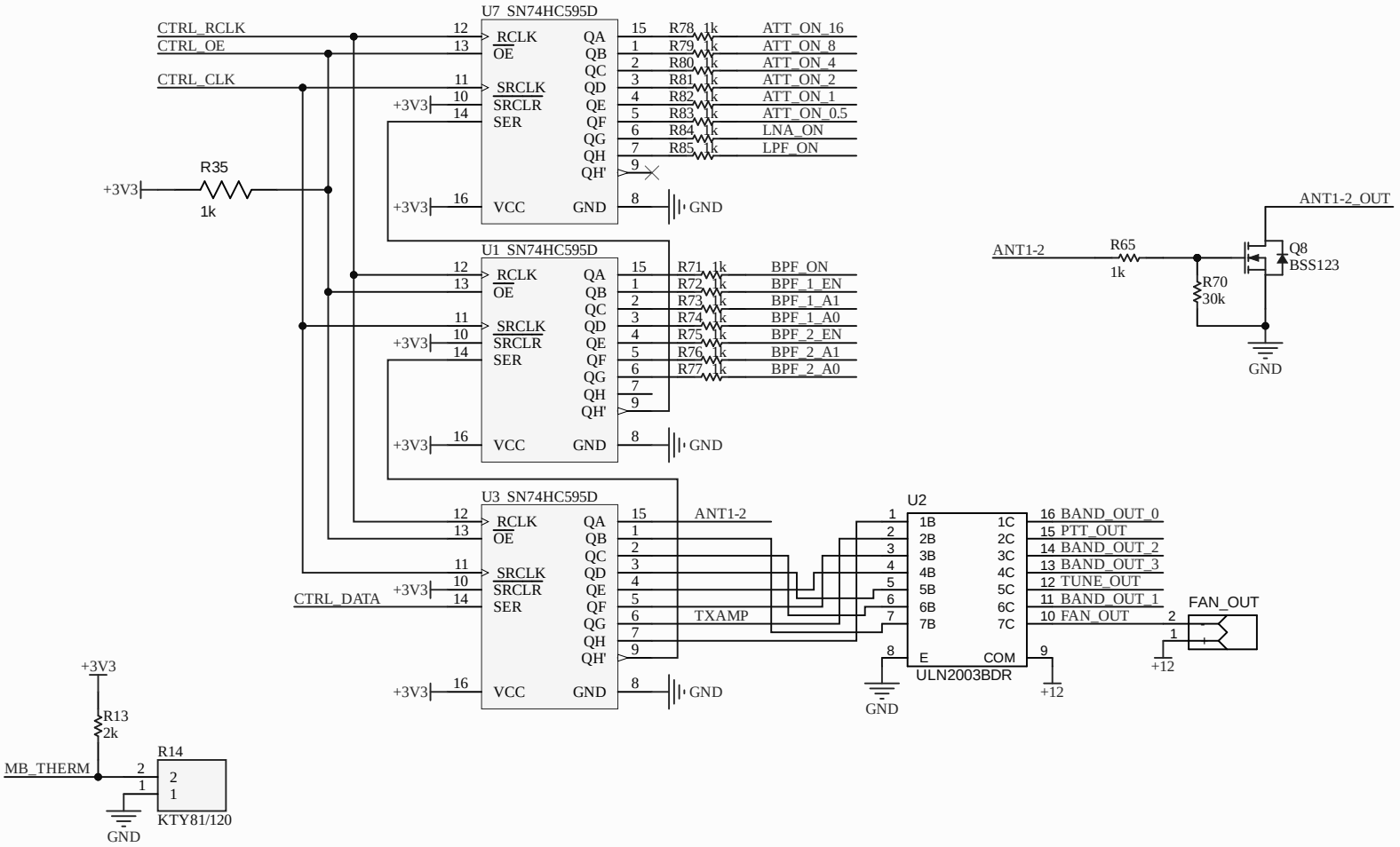
CONN



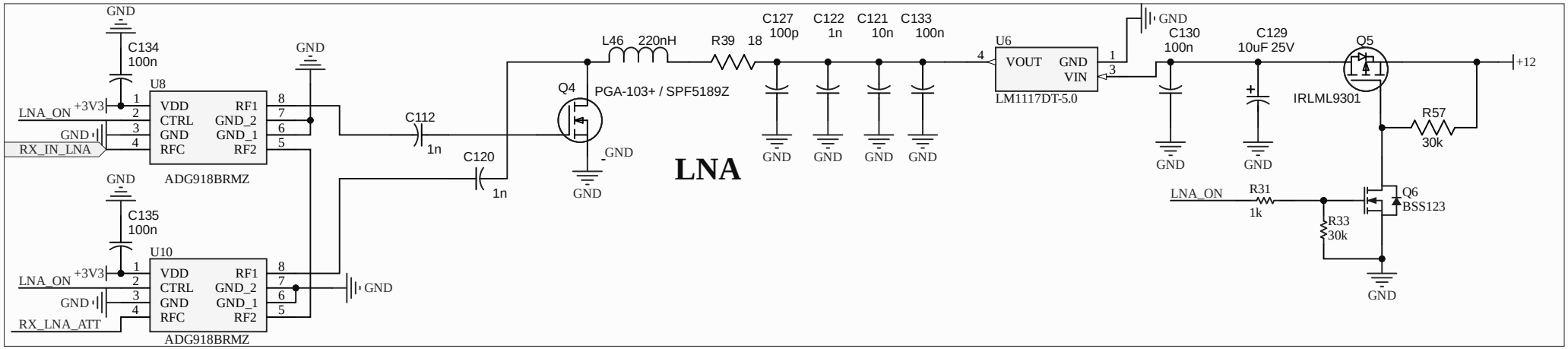


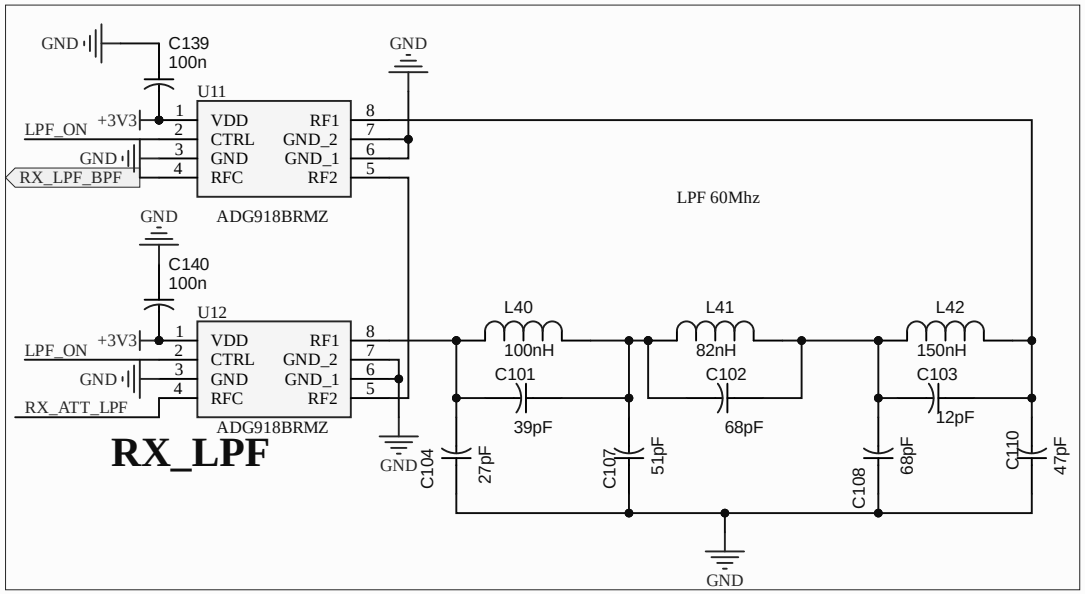


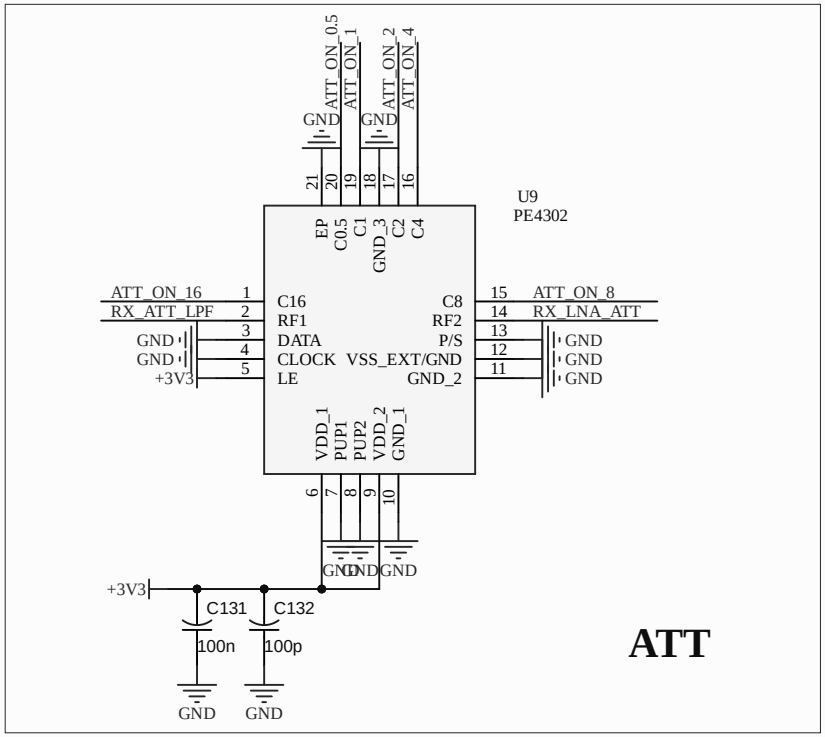
Title *CONN*			
Size: A4	Number:14	Revision:2.0	
Date: 21.06.2021	Time: 22:57:10	Sheet 14 of 18	
File: D:\Dropbox\Develop\Projects\WOLF\Scheme\ALTIUM_DESIGNER\RF-UNIT-QRP\CONN.SchDoc			



Title	***CONTROL***		
Size: A4	Number:15	Revision:2.0	
Date: 21.06.2021	Time: 22:57:10	Sheet 15 of 18	
File:	D:\Dropbox\Develop\Projects\WOLF\Scheme\ALTIUM_DESIGNER\RF-UNIT-QRP\CONTROL.SchDoc		

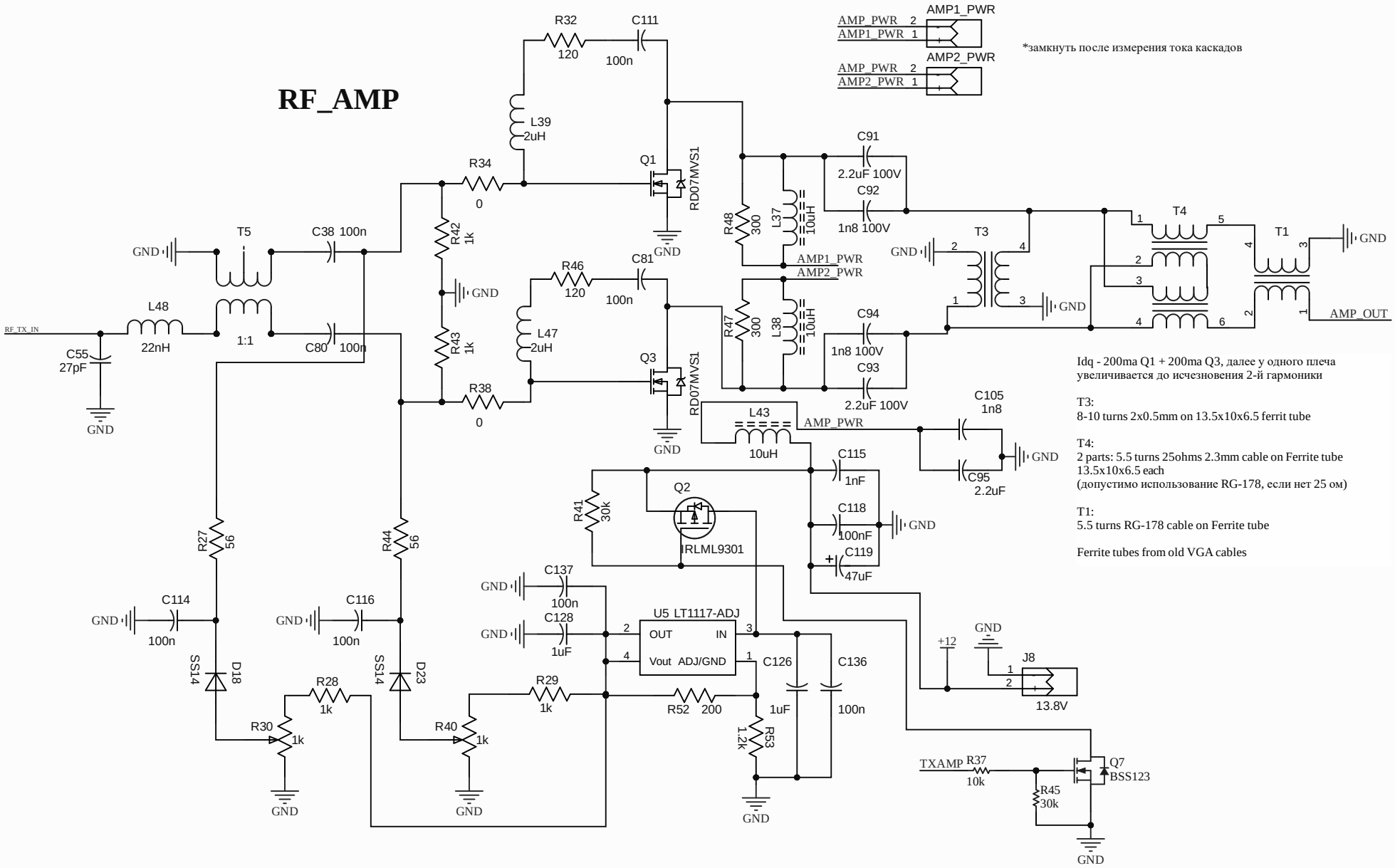






Title	*LNA*		
Size: A4	Number:16	Revision:2.0	
Date: 21.06.2021	Time: 22:57:10	Sheet 16 of 18	
File: D:\Dropbox\Develop\Projects\WOLF\Scheme\ALTIUM_DESIGNER\RF-UNIT-QRP\LNA.SchDoc			

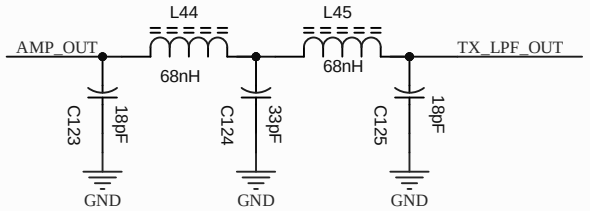
RF_AMP



Title	*RF_AMP*		
Size: A4	Number:17	Revision:2.0	
Date: 21.06.2021	Time: 22:57:10	Sheet 17 of 18	
File: D:\Dropbox\Develop\Projects\WOLF\Scheme\ALTIUM_DESIGNER\RF-UNIT-QRP\RF_AMP.SchDoc			

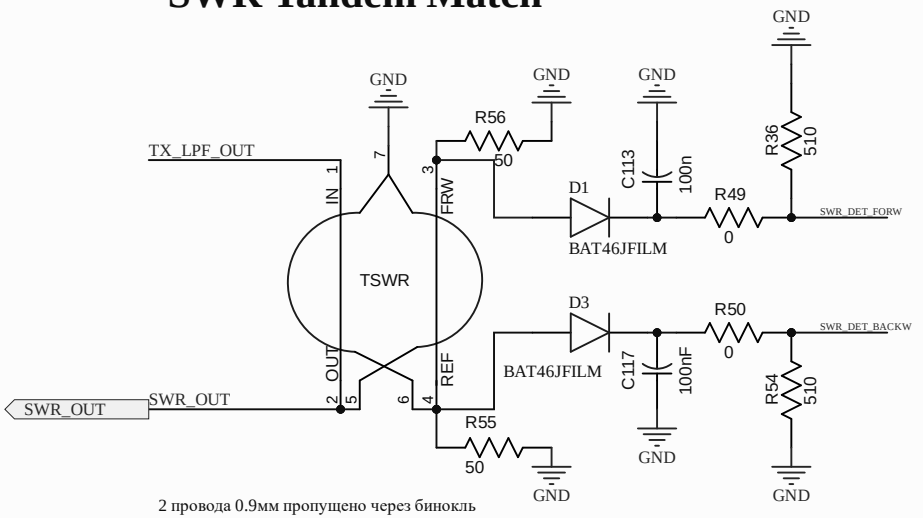
TX_LPF

LPF 170Mhz



Катушки намотаны проводом 0.5мм на оправке диаметром 5мм, 3.5 витка

SWR Tandem Match



2 провода 0.9мм пропущено через бинокль

по диогонали пропущено и намотано по 10 витков 0.5мм

Title	***SWR Tandem Match***		
Size: A4	Number:18	Revision:2.0	
Date: 21.06.2021	Time: 22:57:11	Sheet 18 of 18	
File:	D:\Dropbox\Develop\Projects\WOLF\Scheme\ALTIUM_DESIGNER\RF-UNIT-QRP\SWR Tandem Match.SchDoc		

Comment	Description	Designator	Footprint	LibRef	Quantity	LCSC Part #
51022-0200	51022-0200	AMP1_PWR, AMP2_PWR, FAN_OUT	51022-0200	51022-0200	3	
100n	CAP_0805	C1, C2, C3, C4, C38, C80, C113, C114, C116, C130, C133, C134, C135, C136, C137, C139, C140, C141, C142	CAP_0805	CAP_0805	19	
47pF	CAP_0805	C5, C13, C110	CAP_0805	CAP_0805	3	
33pF	CAP_0805	C9	CAP_0805	CAP_0805	1	
18pF	CAP_0805	C7, C101	CAP_0805	CAP_0805	2	
110pF	CAP_0805	C8, C10	CAP_0805	CAP_0805	2	
100pF	CAP_0805	C9, C14, C22, C89	CAP_0805	CAP_0805	4	
75pF	CAP_0805	C11	CAP_0805	CAP_0805	1	
61pF	CAP_0805	C12	CAP_0805	CAP_0805	1	
120pF	CAP_0805	C15, C21, C88, C90	CAP_0805	CAP_0805	4	
8pF	CAP_0805	C16, C19	CAP_0805	CAP_0805	2	
15pF	CAP_0805	C17, C18	CAP_0805	CAP_0805	2	
150pF	CAP_0805	C20	CAP_0805	CAP_0805	1	
330pF	CAP_0805	C23, C44, C46	CAP_0805	CAP_0805	3	
270pF	CAP_0805	C24, C32	CAP_0805	CAP_0805	2	
180pF	CAP_0805	C33, C34	CAP_0805	CAP_0805	2	
560pF	CAP_0805	C35	CAP_0805	CAP_0805	1	
470pF	CAP_0805	C36, C60	CAP_0805	CAP_0805	2	
51pF	CAP_0805	C45, C107	CAP_0805	CAP_0805	2	
1nF	CAP_0805	C47, C48, C72, C115	CAP_0805	CAP_0805	4	
27pF	CAP_0805	C55, C104	CAP_0805	CAP_0805	2	
620pF	CAP_0805	C58, C73	CAP_0805	CAP_0805	2	
680pF	CAP_0805	C59	CAP_0805	CAP_0805	1	
1.5nF	CAP_0805	C61	CAP_0805	CAP_0805	1	
1.2nF	CAP_0805	C62, C74	CAP_0805	CAP_0805	2	
3.3nF	CAP_0805	C75, C76	CAP_0805	CAP_0805	2	
100n	CAP_1206	C81, C111	CAP_1206	CAP_1206	2	
6.5-30pF	TZC3P300A110	C86, C87	5025[2010]	CAP_0805	2	
2.2uF 100V	CAP_1206	C91, C93	CAP_1206	CAP_1206	2	
1n8 100V	CAP_1206	C92, C94	CAP_1206	CAP_1206	2	
2.2uF	CAP_1206	C95	CAP_1206	CAP_1206	1	
68pF	CAP_0805	C102, C108	CAP_0805	CAP_0805	2	
12pF	CAP_0805	C103	CAP_0805	CAP_0805	1	
1n8	CAP_1206	C105	CAP_1206	CAP_1206	1	
1n	CAP_0805	C112, C120	CAP_0805	CAP_0805	2	
100nF	CAP_0805	C117, C118	CAP_0805	CAP_0805	2	
47uF	CAPAE_6.6x6.6H5.4	C119	CAPAE_6.6x6.6H5.4	CAPAE_6.6x6.6H5.4	1	
10n	CAP_0805	C121	6-0805_M	CAP_0805	1	
1n	CAP_0805	C122	6-0805_M	CAP_0805	1	
18pF	CAP_1206	C123, C125	CAP_1206	CAP_1206	2	
33pF	CAP_1206	C124	CAP_1206	CAP_1206	1	
1uF	CAP_0805	C126, C128	CAP_0805	CAP_0805	2	
100p	CAP_0805	C127, C132	6-0805_M	CAP_0805	2	
10uF 25V	CAPAE_5.3x5.3H5.1	C129	CAPAE_5.3x5.3H5.1	CAPAE_5.3x5.3H5.1	1	
100n	CAP_0805	C131	6-0805_M	CAP_0805	1	
BAT46JFILM	Diode	D1, D3	SOD2513X117N	BAT46JFILM	2	
SMAJ5.0A-TR	Diode	D2	SMB(JEDEC)ATR	SMLVT3V3	1	
1N4148	1N4148	D4	1N4148	1N4148	1	
SS14	SS14	D18, D23	SS14	SS14	2	
BAV99	BAV99	D24	SOT23	BAV99	1	
ANT1	SMA	J1	31-5431	31-5431	1	
ADC	SMA	J2	31-5431	31-5431	1	
EXTERNAL	2*5 PIN	J3	90131-0126	90131-0126	1	
MOTHERBOARD	2*5 PIN	J4	90131-0126	90131-0126	1	
ANT2	SMA	J5	31-5431	31-5431	1	
JX2	JX2	J8	1986717-2	1986717-2	1	
DAC	SMA	J9	31-5431	31-5431	1	
Axiom V23079	Axiom V23079	K1	V23079	Axiom V23079	1	
270nH	IND_0805	L1, L7	IND_0805	IND_0805	2	
82nH	IND_0805	L2, L41	IND_0805	IND_0805	2	
100nH	IND_0805	L3, L40	IND_0805	IND_0805	2	
470nH	IND_0805	L4, L15	IND_0805	IND_0805	2	
150nH	IND_0805	L5, L6, L42	IND_0805	IND_0805	3	
330nH	IND_0805	L8, L10, L11, L52, L55	IND_0805	IND_0805	5	
1uH	IND_0805	L9, L17	IND_0805	IND_0805	2	
560nH	IND_0805	L12, L16	IND_0805	IND_0805	2	
820nH	IND_0805	L13, L21	IND_0805	IND_0805	2	
1.5uH	IND_0805	L14, L18, L25	IND_0805	IND_0805	3	
1.8uH	IND_0805	L19, L26	IND_0805	IND_0805	2	
680nH	IND_0805	L20	IND_0805	IND_0805	1	
2.2uH	IND_0805	L22, L30, L31	IND_0805	IND_0805	3	
2.7uH	IND_0805	L23, L27	IND_0805	IND_0805	2	
4.7uH	IND_0805	L24	IND_0805	IND_0805	1	
3.3uH	IND_0805	L28	IND_0805	IND_0805	1	
5.6uH	IND_0805	L29	IND_0805	IND_0805	1	
6.8uH	IND_0805	L32	IND_0805	IND_0805	1	
8.2uH	IND_0805	L33	IND_0805	IND_0805	1	
8.2nH	IND_0805	L34, L35, L36	IND_0805	IND_0805	3	
10uH	Inductor	L37, L38, L43	IND_FERRITE_CORE	IND_FERRITE_CORE	3	
2uH	IND_0805	L39, L47	IND_0805	IND_0805	2	
68nH	Inductor	L44, L45	IND_FERRITE_CORE_1	IND_FERRITE_CORE	2	
220nH	IND_1206	L46	IND_1206	IND_1206	1	
22nH	IND_0805	L48, L49, L51	IND_0805	IND_0805	3	
27nH	IND_0805	L50	IND_0805	IND_0805	1	
180nH	IND_0805	L53, L54	IND_0805	IND_0805	2	
RD07MVS1	RD07MVS1	Q1, Q3	RD07MVS1	RD07MVS1	2	
IRLML0301	MOSFET	Q2, Q5	SOT23	MOSFET_ENH_PD	2	
PGA-103+ / SPF5189Z	PGA-103+ / SPF5189Z	Q4	SOT89	PGA-103+	1	
BS123	N-Channel Logic Level Enhancement Mode Field Effect Transistor, 1.7 V , -55 to 150 degC, 3-Pin SOT-23, RoHS, Tape and Reel	Q6, Q7, Q8	FAIR-SOT23-3_V	CMP-2000-04934-1	3	
10k	RES_1206	R1	RES_1206	RES_1206	1	
560	RES_0805	R3, R7, R8, R9, R10, R11, R12	RES_0805	RES_0805	7	
2k	RES_0805	R13	RESC2013X60X40NL20T25	CMP-2001-00626-1	1	
KTY81/120	Integrated Circuit	R14	TO254P420X460X770-3P	KTY81_110	1	
56	RES_0805	R27, R44	RES_0805	RES_0805	2	
1k	RES_0805	R28, R29, R35, R42, R43	RES_0805	RES_0805	5	
ADJ: 1k	3362	R30, R40	3362	3362	2	
1k	RES_0805	R31, R65, R71, R72, R73, R74, R75, R76, R77, R78, R79, R80, R81, R82, R83, R84, R85	RESC2013X60X40NL20T25	CMP-2001-00626-1	17	
120	RES_0805	R32, R46	RES_0805	RES_0805	2	
30k	RES_0805	R33, R45, R70	RESC2013X60X40NL20T25	CMP-2001-00626-1	3	
0	RES_1206	R34, R38	RES_1206	RES_1206	2	
510	RES_0805	R36, R54	RES_0805	RES_0805	2	
10k	RES_0805	R37	RESC2013X60X40NL20T25	CMP-2001-00626-1	1	
18	RES_1206	R39	RES_1206	RES_1206	1	
39k	RES_0805	R41, R57	RES_0805	RES_0805	2	
300	RES_1206	R47, R48	RES_1206	RES_1206	2	
0	RES_0805	R49, R50	RES_0805	RES_0805	2	
200	RES_0805	R52	RES_0805	RES_0805	1	
1.2k	RES_0805	R53	RES_0805	RES_0805	1	
50	RES_1206	R55, R56	RES_1206	RES_1206	2	
BT M2000HM 10*6*5	Transformer	T1	Rutrof 2	TRANSF_ICORE	1	
BT M2000HM 10*6*5	Transformer	T3	Rutrof	TRANSF_ICORE	1	
TRANSF_OUT	TRANSF_OUT	T4	TRANSF_OUT	TRANSF_OUT_2	1	
1:1	1:1	T5	TRANSF_ACORE2	TRANSF_ACORE2	1	
SWR_TANDEM_MATCH	SWR_TANDEM_MATCH	TSWR	SWR_TANDEM_MATCH	SWR_TANDEM_MATCH	1	
SN74HC595D	8-Bit Shift Registers With 3-State Output Registers, D0016A, TUBE	U1, U3, U7	D0016A_L	CMP-0780-00038-3	3	
ULN2003BDR	ULN2003BDR	U2	ULN2003BDR	ULN2003BDR	1	
ADG904BRUZ-R	Integrated Circuit	U4, U15, U16, U17	SOP65P640X120-20N	ADG904BRUZ-R	4	
LT1117ST-ADJ	LT1117ST-ADJ	U5	LT1117ST-ADJ	LT1117ST-ADJ	1	
LM1117DT-5.0	Integrated Circuit	U6	TO229P991X238-3N	LM1117DT-ADJ	1	
ADG918BRMZ	Integrated Circuit	U8, U10, U11, U12, U13, U14	SOP65P490X110-8N	ADG918BRMZ	6	[NoParam], test
PE4302	Integrated Circuit	U9	QFN5P400X400X90-21N	PE4312C-Z	1	
2027-07-SM-RPLF	Undefined or Miscellaneous	U18	2003073MRPLF	2003-07-SM-RPLF	1	