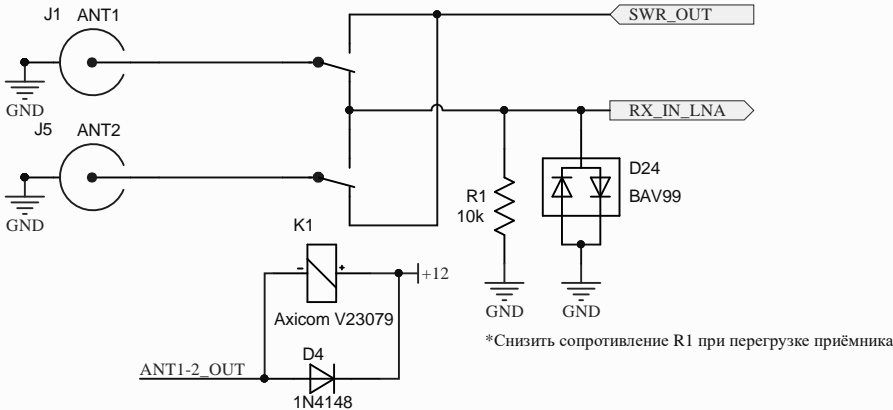
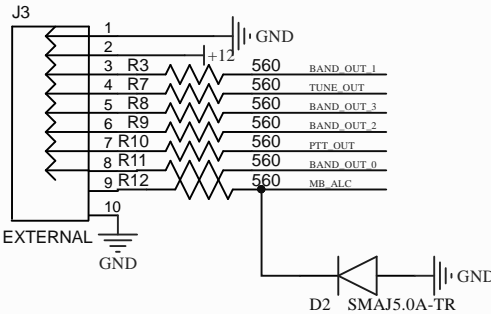
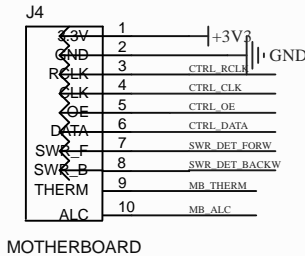
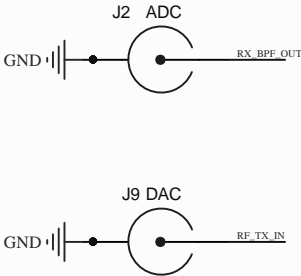


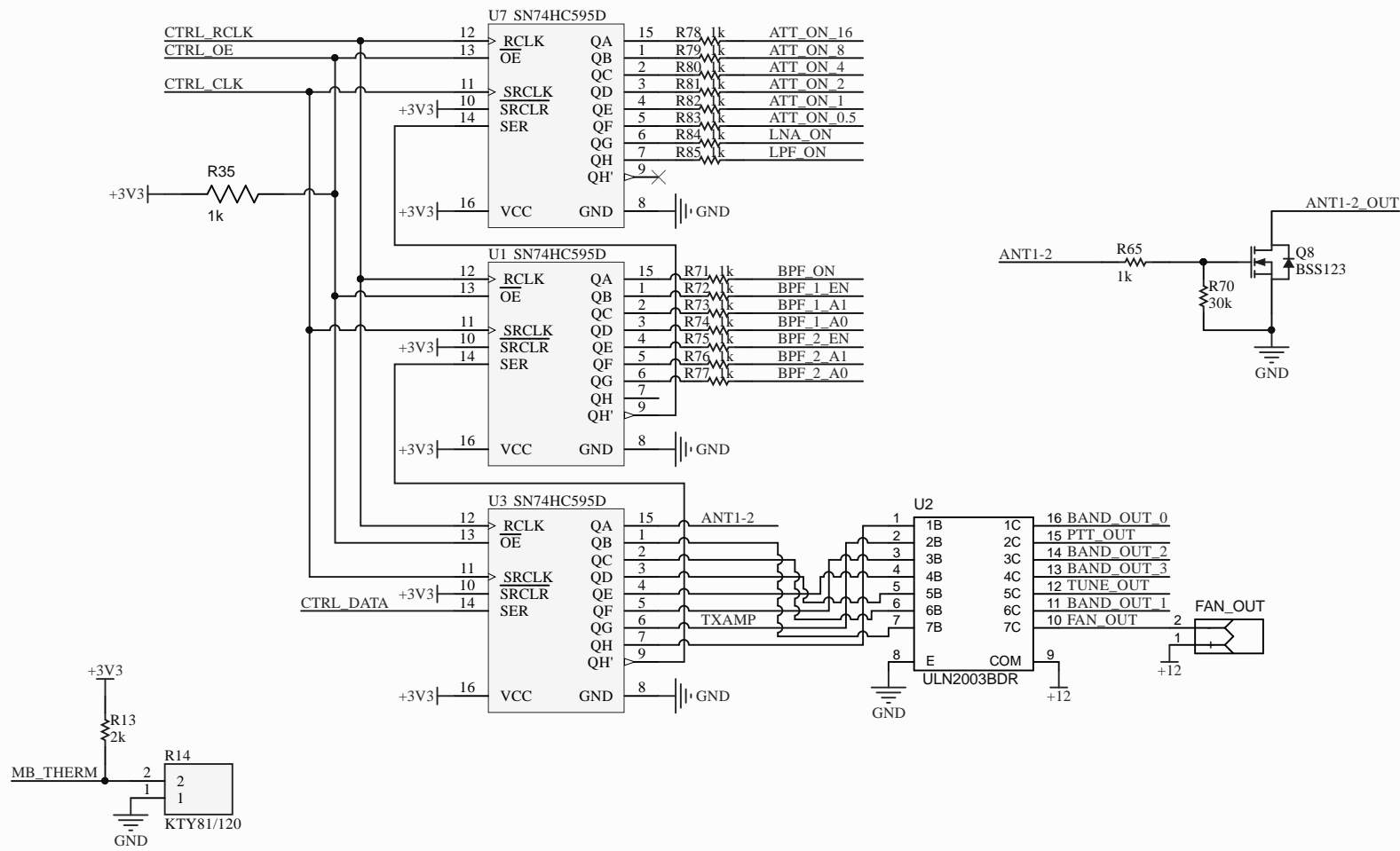


TXRX\_COMUTATOR



CONN



Title **CONTROL**

Size: A4

Number:15

Revision:2.0

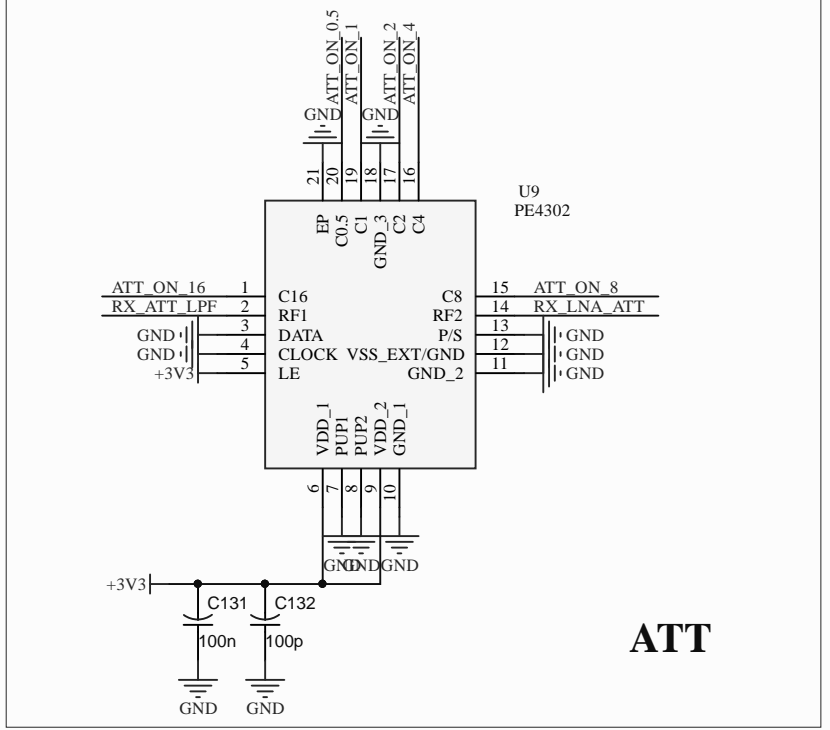
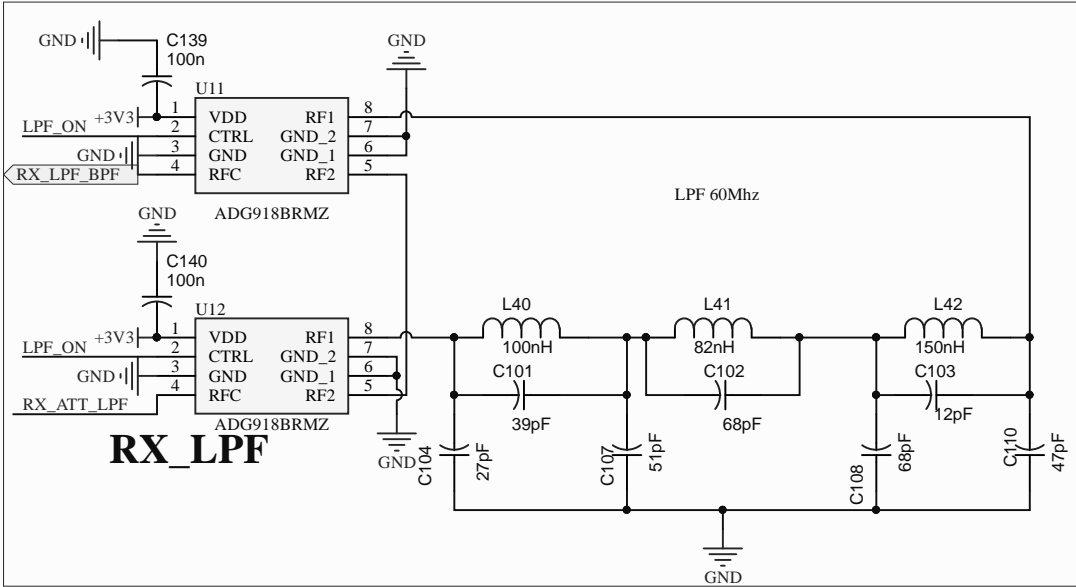
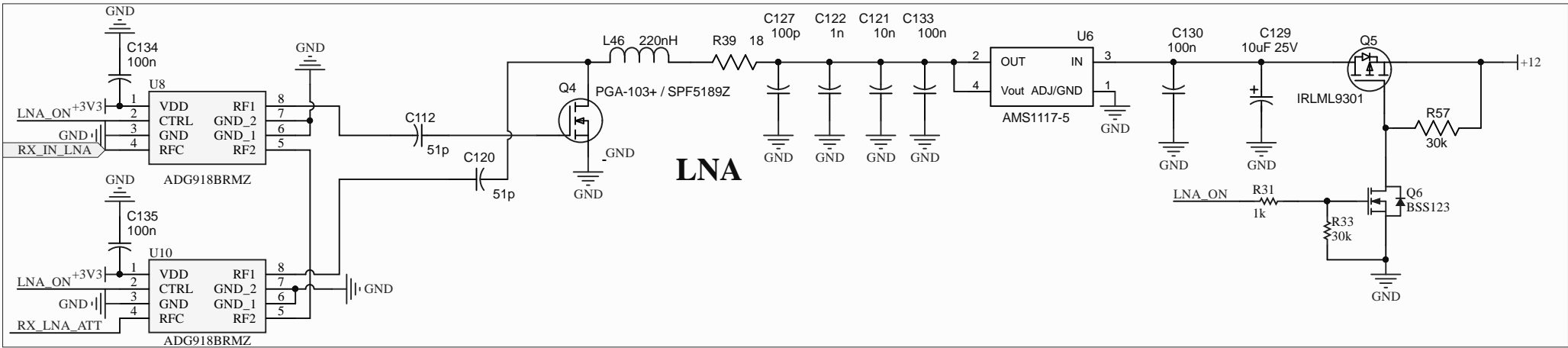
Date: 07.06.2021

Time: 17:01:03

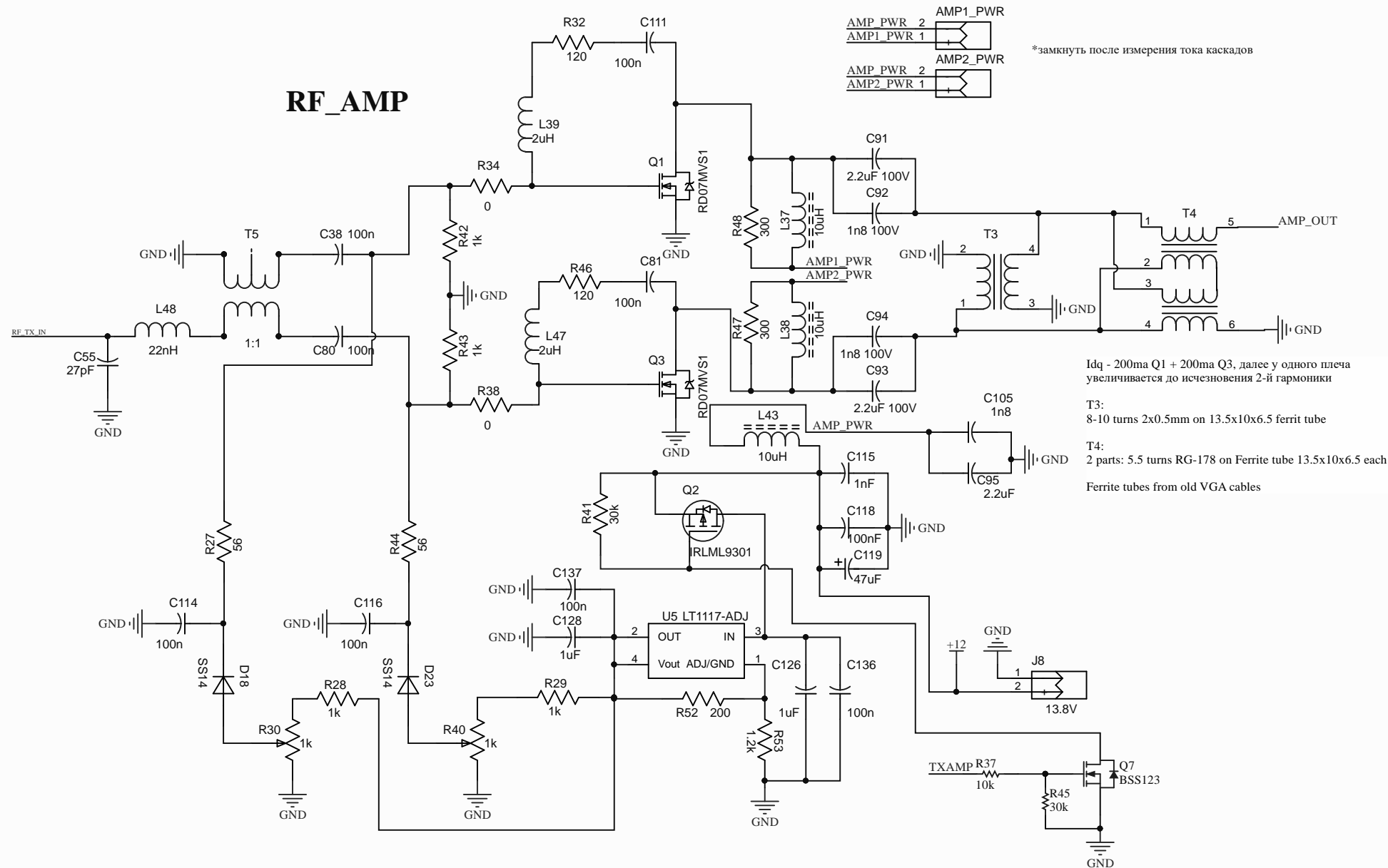
Sheet 15 of 18

File: D:\Dropbox\Develop\Projects\WOLF\Scheme\ALTUM\_DESIGNER\RF-UNIT-QRP-7W\CONTROL.SchDoc





# RF\_AMP



Title **RF\_AMP**

Size: A4

Number:17

Revision:2.0

Date: 07.06.2021

Time: 17:01:03

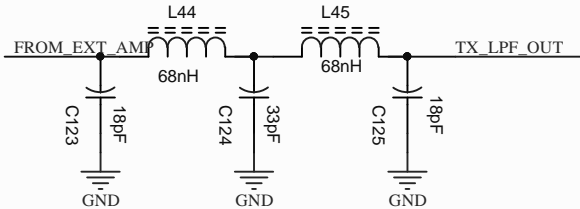
Sheet 17 of 18

File: D:\Dropbox\Develop\Projects\WOLF\Scheme\ALTUM\_DESIGNER\RF-UNIT-QRP-7W\RF\_AMP.SchDoc

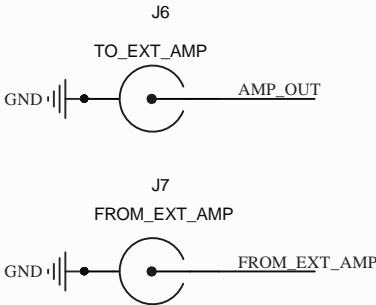


TX\_LPF

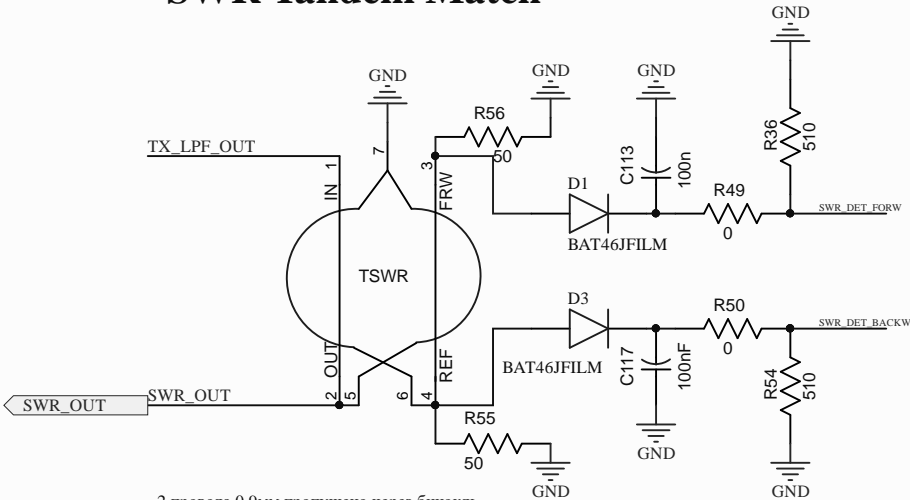
LPF 170Mhz



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



SWR Tandem Match



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

Comment	Description	Designator	Footprint	LibRef	Quantity	LCS# Part #
5102Z-0200	5102Z-0200	AMP1_PWR AMP2_P1	5102Z-0200	5102Z-0200		
100n	CAP 0805	C1, C2, C3, CA, C8	CAP 0805	CAP 0805	3	
470p	CAP 0805	C5, C13, C110	CAP 0805	CAP 0805	3	
330p	CAP 0805	C6	CAP 0805	CAP 0805	1	
390p	CAP 0805	C7, C101	CAP 0805	CAP 0805	2	
750p	CAP 0805	C11	CAP 0805	CAP 0805	1	
610p	CAP 0805	C12	CAP 0805	CAP 0805	1	
1000p	CAP 0805	C14, C22, C89	CAP 0805	CAP 0805	3	
1200p	CAP 0805	C15, C21, C88, C90	CAP 0805	CAP 0805	4	
1500p	CAP 0805	C20	CAP 0805	CAP 0805	1	
1300p	CAP 0805	C24, C44, C46	CAP 0805	CAP 0805	3	
2700p	CAP 0805	C24, C32	CAP 0805	CAP 0805	2	
1800p	CAP 0805	C33, C34	CAP 0805	CAP 0805	2	
5600p	CAP 0805	C35	CAP 0805	CAP 0805	1	
4700p	CAP 0805	C36, C40	CAP 0805	CAP 0805	2	
510p	CAP 0805	C45, C107	CAP 0805	CAP 0805	2	
1nF	CAP 0805	C47, C48, C72, C115	CAP 0805	CAP 0805	4	
270p	CAP 0805	C55, C104	CAP 0805	CAP 0805	2	
8200p	CAP 0805	C58, C73	CAP 0805	CAP 0805	2	
6800p	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	
6.5-300F	TC-200A110	C90, C103	90251-2010	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	
4800p	CAP 0805	C102, C108	CAP 0805	CAP 0805	2	
120p	CAP 0805	C103	CAP 0805	CAP 0805	1	
1n8	CAP 1206	C105	CAP 1206	CAP 1206	1	
51p	CAP 0805	C112, C120	CAP 0805	CAP 0805	2	
1000p	CAP 0805	C117, C118	CAP 0805	CAP 0805	2	
470p	OPAMP 6-605 6H5.4	C119	OPAMP 6-605 6H5.4	OPAMP 6-605 6H5.4	1	
10n	CAP 0805	C121	6-0805_M	CAP 0805	1	
1n	CAP 0805	C122	6-0805_M	CAP 0805	1	
180p	CAP 1206	C123, C125	CAP 1206	CAP 1206	2	
330p	CAP 1206	C124	CAP 1206	CAP 1206	1	
10uF	CAP 0805	C126, C128	CAP 0805	CAP 0805	2	
100p	CAP 0805	C127, C132	6-0805_M	CAP 0805	2	
10uF 25V	OPAMP 5-3x5 3H6.1	C129	OPAMP 5-3x5 3H6.1	OPAMP 5-3x5 3H6.1	1	
100n	CAP 0805	C131	6-0805_M	CAP 0805	1	
BAT46JFLIM	Diode	D1, D3	50D2513X117N	BAT46JFLIM	2	
5MA15.0A-TR	Diode	D2	5MB136CATR	5MLV13V3	1	
1N4148	1N4148	D4	1N4148	1N4148	1	
SS14	SS14	D18, D23	SS14	SS14	2	
BAV99	BAV99	D24	50T23	BAV99	1	
AW11	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	
IND1N80AND	2-5 PIN	J4	90131-0126	90131-0126	1	
AW12	SMA	J5	31-5431	31-5431	1	
TO_EXT_AMP	SMA	J6	31-5431	31-5431	1	
FROM_EXT_AMP	SMA	J7	31-5431	31-5431	1	
J02	J02	J8	1986717-2	1986717-2	1	
D15AC	SMA	J9	31-5431	31-5431	1	
Axicom V23079	Axicom V23079	K1	V23079	Axicom V23079	1	
270H	IND 0805	L1, L7	IND 0805	IND 0805	2	
820H	IND 0805	L2, L41	IND 0805	IND 0805	2	
1000H	IND 0805	L3, L40	IND 0805	IND 0805	2	
4700H	IND 0805	L4, L15	IND 0805	IND 0805	2	
1500H	IND 0805	L5, L6, L42	IND 0805	IND 0805	3	
3300H	IND 0805	L8, L10, L11	IND 0805	IND 0805	3	
100H	IND 0805	L9, L17	IND 0805	IND 0805	2	
5000H	IND 0805	L12, L16	IND 0805	IND 0805	2	
8200H	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	
6800H	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	
5.5uH	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	
8.2uH	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	
68H	Inductor	L44, L45	IND-FERRITE CORE	IND-FERRITE CORE	2	
2200H	IND 1206	L46	IND 1206	IND 0805	1	
220H	IND 0805	L48	IND 0805	IND 0805	1	
RD07MM51	RD07MM51	Q1, Q3	RD07MM51	RD07MM51	2	
IRML9301	MOSET	Q2, Q5	50T23	MOSET_ENH_PD	2	
PGA103+ / SPFS1892	PGA103+ / SPFS1892	Q4	S0T89	PGA103+	1	
BSS123	N-Channel Logic Level	Q6, Q7, Q8	FAIRSO T23-3_V	OMP-2000-04934-1	3	
10k	RES 1206	R1	RES 1206	RES 1206	1	
560	RES 0805	R0, R7, R8, R9, R10	RES 0805	RES 0805	7	
2k	RES 0805	R13	RES-20136X040N12	OMP-2001-00626-1	1	
KTBY1/120	Integrated Circuit	R14	TO-25-4P420X46X070	KTBY81_110	1	
5k	RES 0805	R27, R44	RES 0805	RES 0805	2	
10k	RES 0805	R28, R29, R35, R42	RES 0805	RES 0805	5	
ADJ-1k	300J	R30, R40	300J		2	
1k	RES 0805	R31, R65, R71, R72	RES-20136X040N12	OMP-2001-00626-1	17	
120	RES 0805	R32, R46	RES 0805	RES 0805	2	
30k	RES 0805	R33, R35, R70	RES-20136X040N12	OMP-2001-00626-1	4	
0	RES 1206	R34, R38	RES 1206	RES 1206	2	
510	RES 0805	R36, R54	RES 0805	RES 0805	2	
10k	RES 0805	R37	RES-20136X040N12	OMP-2001-00626-1	1	
18	RES 1206	R39	RES 1206	RES 1206	1	
3k	RES 0805	R41, R67	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	R56, R56	RES 1206	RES 1206	2	
BT M2000HM 10*6*5	Transformer	T3	Railort	TRANSF 1CORE	1	
TRW5F_OUT	TRW5F_OUT	T4	TRW5F_OUT	TRW5F_OUT_2	1	
LT1	LT1	T5	TRW5F_OUT	TRW5F_OUT_2	1	
SWR TANDEM MATO	SWR TANDEM MATO	TSWR	SWR TANDEM MATO	SWR TANDEM MATO	1	
SN74HC95D	8-Bit Shift Registers	U1, U3, U7	D0074A_L	OMP-070-00038-3	3	
ULN2003BDR	ULN2003BDR	U2	ULN2003BDR	ULN2003BDR	1	
ADG904BRUZR	Integrated Circuit	U4, U15, U16, U17	SOPSP40X120-20N	ADG904BRUZR	4	
LT1171STADJ	LT1171STADJ	U5	LT1171STADJ	LT1171STADJ	1	
AMS1117.5	AMS1117.5	U6	AMS1117.5	AMS1117.5	1	
ADG918BRMZ	Integrated Circuit	U8, U10, U11, U12	SOPSP40X1010-8N	ADG918BRMZ	6	[NoParam] test
PE4302	Integrated Circuit	U9	QFN50P400X40X090	PE4312C-Z	1	