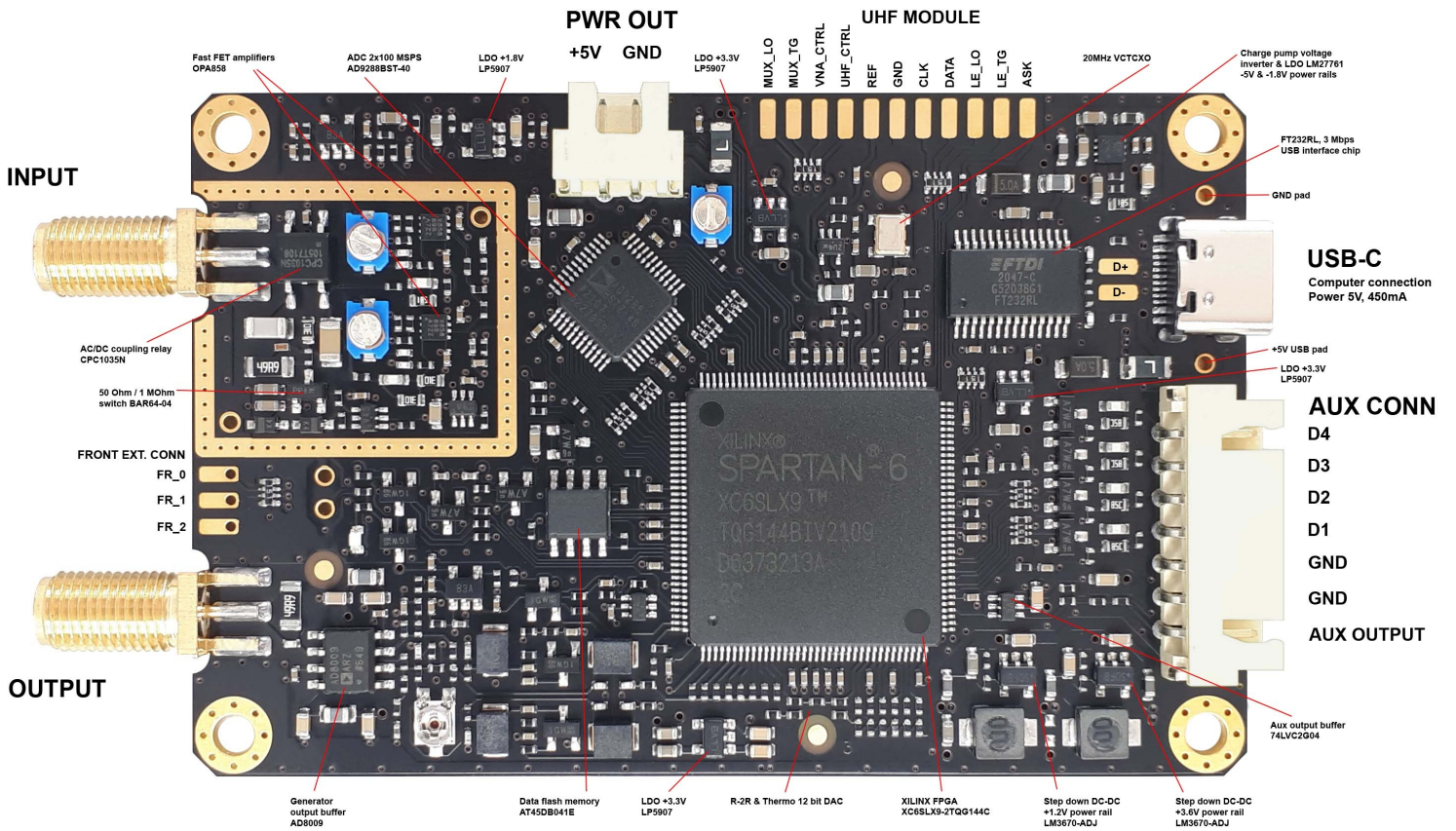
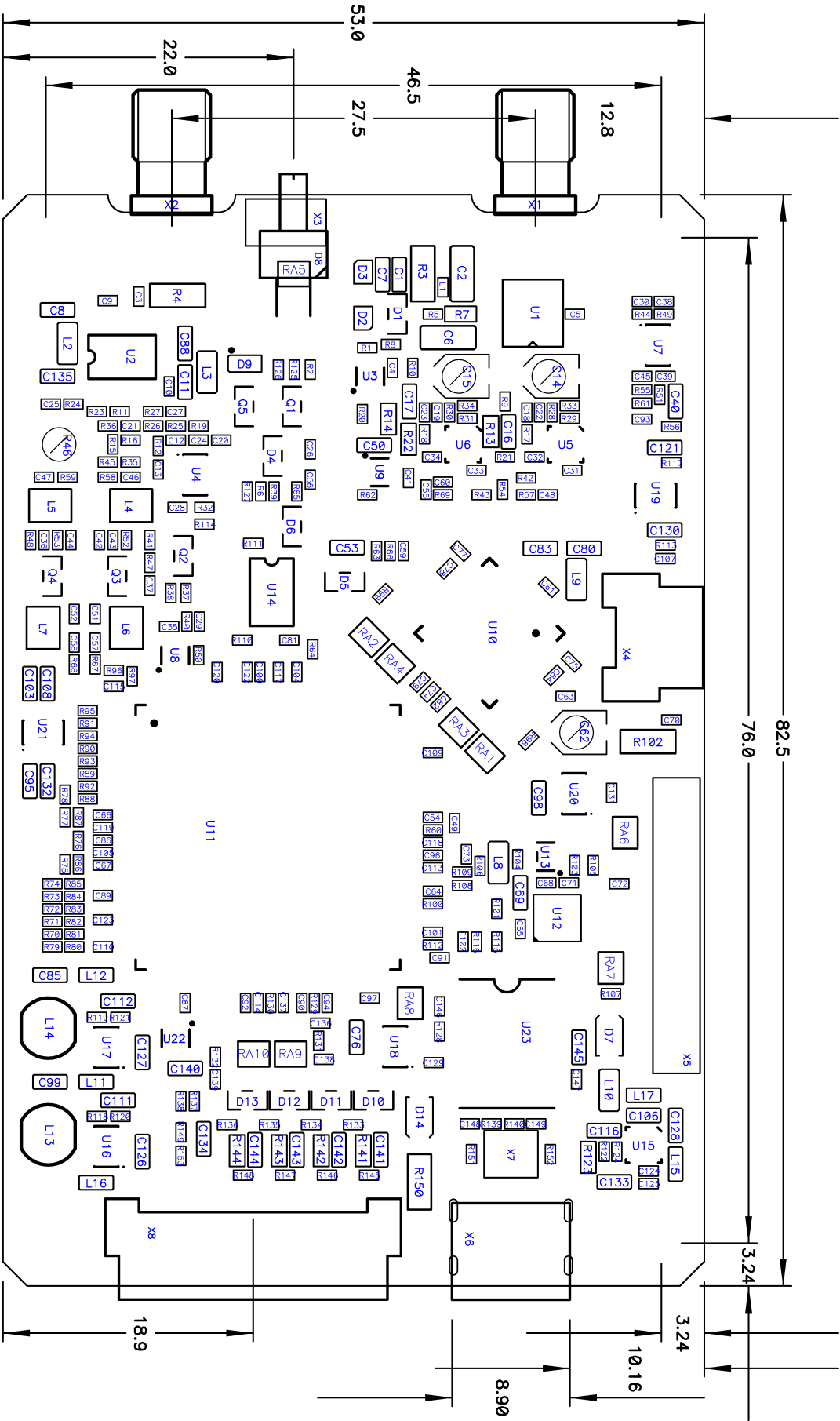
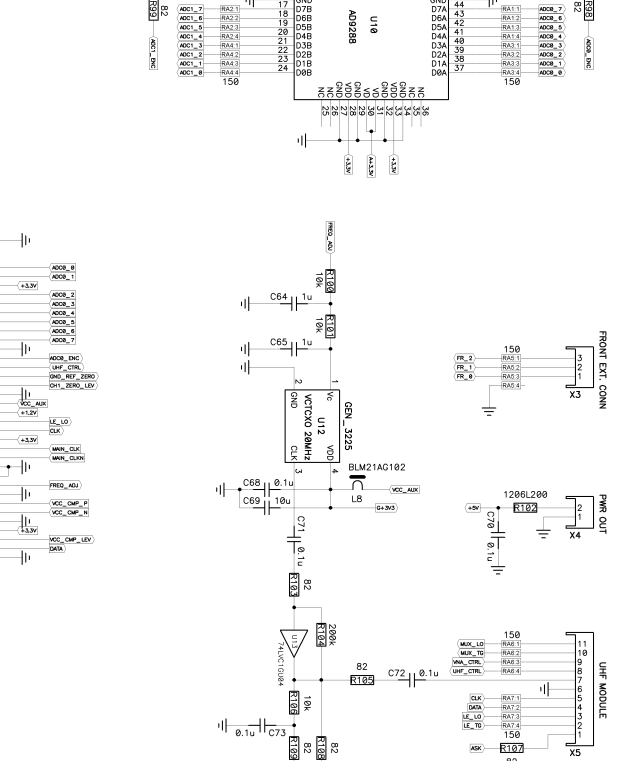
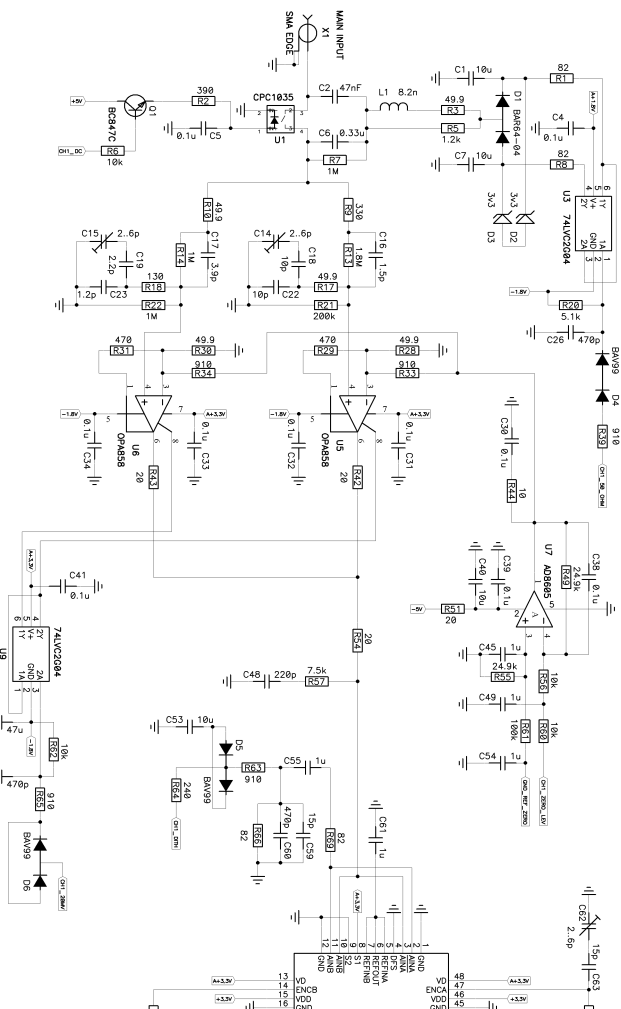
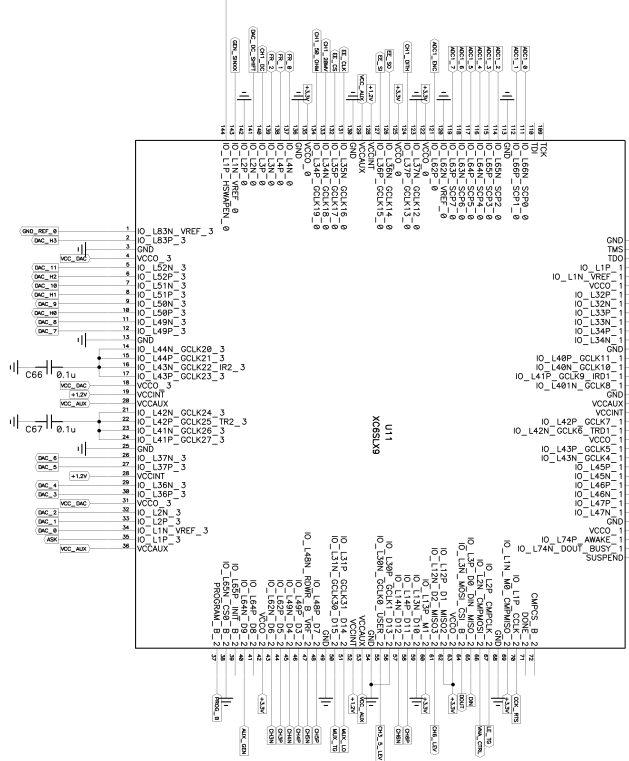
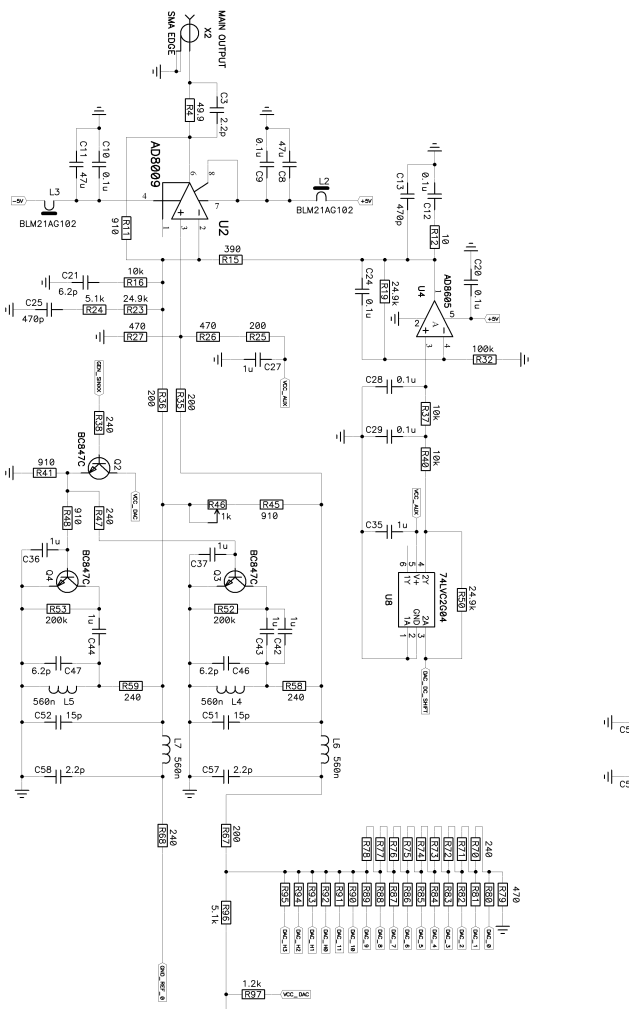


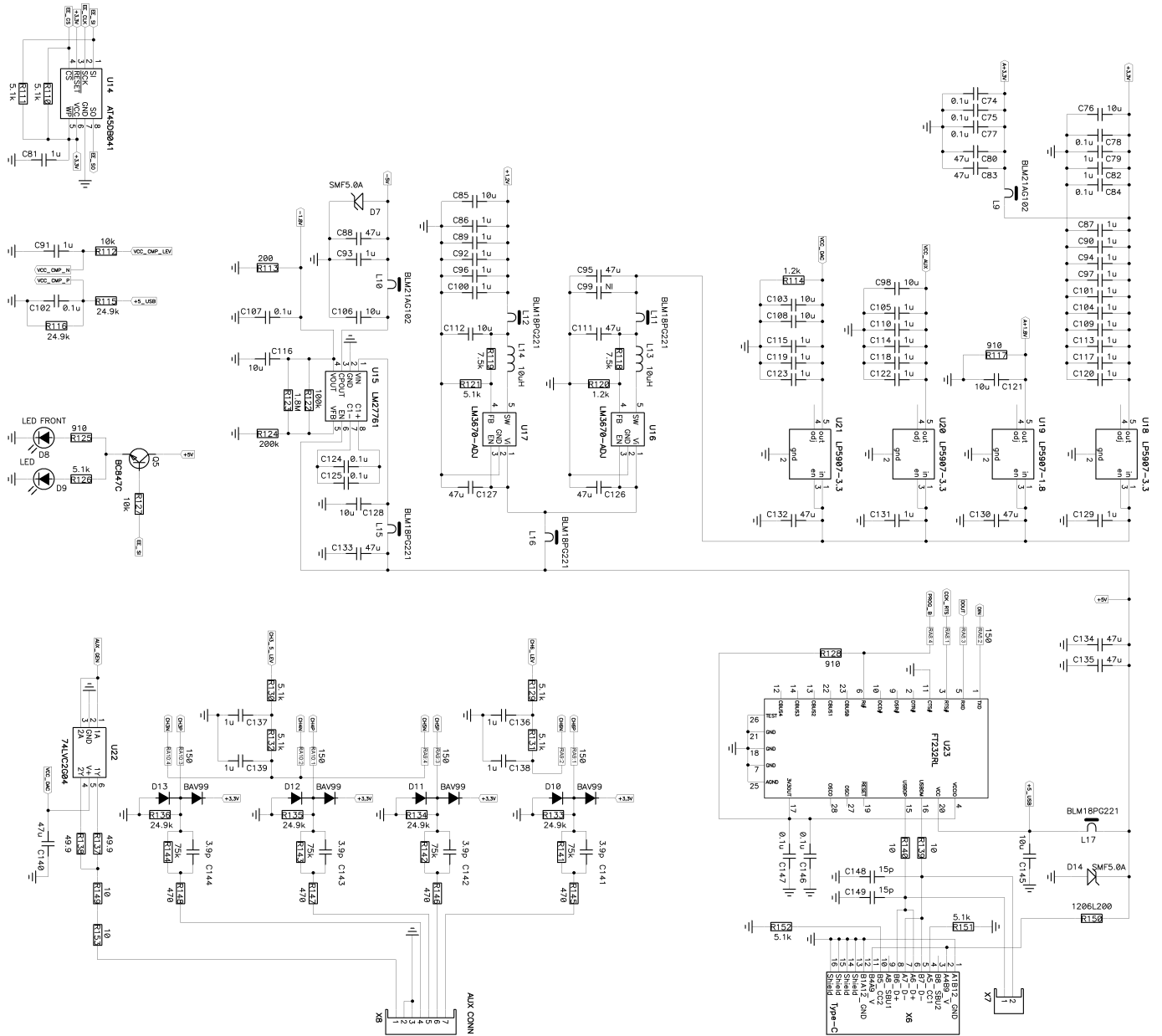
OSA103F

PCB layout and schematic diagram (PCB revision 3)









Components

RESISTORS

1	10 1%	0402	6	R12 R44 R139 R140 R149 R153
2	20 1%	0402	4	R42 R43 R51 R54
3	49.9 1%	0402	6	R10 R17 R28 R30 R137 R138
4	82 1%	0402	11	R1 R8 R66 R69 R98 R99 R103 R105 R107 R108 R109
5	130 1%	0402	1	R18
6	200 1%	0402	5	R25 R35 R36 R67 R113

7	240 1%	0402		15	R38 R47 R58 R59 R64 R68 R70 R71 R72 R73 R74 R75 R76 R77 R78
8	330 1%	0402		1	R9
9	390 1%	0402		2	R2 R15
10	470 1%	0402		25	R26 R27 R29 R31 R79 R80 R81 R82 R83 R84 R85 R86 R87 R88 R89 R90 R91 R92 R93 R94 R95 R145 R146 R147 R148
11	910 1%	0402		12	R11 R33 R34 R39 R41 R45 R48 R63 R65 R117 R125 R128
12	1.2k 1%	0402		4	R5 R97 R114 R120
13	5.11k 1%	0402		13	R20 R24 R96 R110 R111 R121 R126 R129 R130 R131 R132 R151 R152
14	7.5k 1%	0402		3	R57 R118 R119
15	10k 1%	0402		12	R6 R16 R37 R40 R56 R60 R62 R100 R101 R106 R112 R127
16	24.9k 1%	0402		11	R19 R23 R49 R50 R55 R115 R116 R133 R134 R135 R136
17	100k 1%	0402		3	R32 R61 R122
18	200k 1%	0402		5	R21 R52 R53 R104 R124
19	75k 1%	0603	85C	4	R141 R142 R143 R144
20	1M 1%	0603	01E	3	R7 R14 R22
21	1.8M 1%	0603	185	2	R13 R123
22	150	YC124	151	10	RA1 RA2 RA3 RA4 RA5 RA6 RA7 RA8 RA9 RA10
23	49.9 1%	1206	49R9	2	R3 R4
24	1206L200	1206	L	2	R102 R150
25	1k	PVZ3A	1 3	1	R46

CAPACITORS

1	1.2p NPO	0402		1	C23
2	2.2p NPO	0402		4	C3 C19 C57 C58
3	6.2p NPO	0402		3	C21 C46 C47
4	10p NPO	0402		2	C18 C22
5	15p NPO	0402		6	C51 C52 C59 C63 C148 C149
6	220p NPO	0402		1	C48
7	470p NPO	0402		5	C13 C25 C26 C56 C60
8	0.1u X5R 6.3V	0402		35	C4 C5 C9 C10 C12 C20 C24 C28 C29 C30 C31 C32 C33 C34 C38 C39 C41 C66 C67 C68 C70 C71 C72 C73 C74 C75 C77 C78 C84 C102 C107 C124 C125 C146 C147
9	1u X5R 6.3V	0402		48	C27 C35 C36 C37 C42 C43 C44 C45 C49 C54 C55 C61 C64 C65 C79 C81 C82 C86 C87 C89 C90 C91 C92 C93 C94 C96 C97 C100 C101 C104 C105 C109 C110 C113 C114 C115 C117 C118 C119 C120 C122 C123 C129 C131 C136 C137 C138 C139
10	1.5p NPO	0603		1	C16
11	3.9p NPO	0603		5	C17 C141 C142 C143 C144

12	10u X5R 6.3V	0603		16	C1 C7 C40 C53 C69 C76 C85 C98 C103 C106 C108 C112 C116 C121 C128 C145
13	47u X5R 6.3V	0603		16	C8 C11 C50 C80 C83 C88 C95 C111 C126 C127 C130 C132 C133 C134 C135 C140
14	47n NPO 50V	1206		1	C2
15	0.33u X5R 50V	1206		1	C6
16	2..6p	TZC3Z	blue	3	C14 C15 C62
	not installed	0603		1	C99

INDUCTORS

1	BLM18PG221	0603		5	L11 L12 L15 L16 L17
2	BLM21AG102	0805		5	L2 L3 L8 L9 L10
3	LQP15MN 8.2n	0402		1	L1
4	10uH		100	2	L13 L14
5	NLV32T 560n	NL3225	R56	4	L4 L5 L6 L7

DIODES, TRANSISTORS

1	BAR64-04	SOT23-3		1	D1
2	BAV99	SOT23-3	A7W	7	D4 D5 D6 D10 D11 D12 D13
3	BZX384 3v3	SOD323	K4	2	D2 D3
4	SMF5.0A		5.0A	2	D7 D14
5	LED Green	0603		1	D9
6	BC847C	SOT23-3	1GW	5	Q1 Q2 Q3 Q4 Q5

MICROCHIPS

1	NC7SZU04P5X	SC70-5	ZU4	1	U13
2	74LVC2G04GW	SC70-6	V4	4	U3 U8 U9 U22
3	LP5907-1.8	SOT23-5	LLUB	1	U19
4	LP5907-3.3	SOT23-5	LLVB	3	U18 U20 U21
5	CPC1035N			1	U1
6	LM3670-ADJ	SOT23-5	SDFB	2	U16, U17
7	AD8009ARZ	SOIC-8		1	U2
8	AT45DB041E-SS	SOIC-8		1	U14
9	AD8605	SOT23-5	B3A	2	U4 U7
10	LM27761			1	U15
11	VCTCXO 20MHz	SMD 3225		1	U12
12	FT232RL	SSOP-28		1	U23
13	OPA858		x858	2	U5 U6
14	AD9288BST-40	LGFP-48		1	U10
15	XC6SLX9-2TQG144C	TQFP- 144		1	U11