	Quantity	Package	Elements
ntegrated Circuits			
Z84C006	1	DIP-40	IC1
W27C512	1	DIP-28	IC2
UT621024-70LL	1	DIP-32	IC3
74HC04N	1	DIP-14	IC4
74HC245N	3	DIP-20	IC5, IC6, IC7
74HC573N	1	DIP-20	IC8
TL712	1	DIP-08	IC9
EPM7128STC100	1	TQFP-100	IC10
AD724JR	1	SO16W	IC11
AY-3-8912A	1	DIP-28	IC12
LM2596S-5.0	1	TO263-5	IC13
Transistors			
BC548	5	TO92	Q2, Q3, Q4, Q5, Q15
2SA1175	8		Q7, Q8, Q9, Q10, Q11, Q12, Q13, Q14
Capacitors			
10pF	2		C17, C20
22pF	1		C21
100pF	1		C1
1nF	?		
	2		C14, C25
3,3nF	2		C16, C28
100nF	21		C2, C4, C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C18, C23, C26 C27, C31, C32, C33, C35
100nF smd 0805	5	0805	C3, C37, C38, C39, C40
		low profile	23, 33., 330, 33, 340
10uF	3	electrolytic cap, 2.5mm	C22, C29, C30
220uF	2	low profile electrolytic cap,	C19, C36
22001	2	2.5mm	C17, C30
680uF	1	low profile electrolytic cap, 5mm	C34
Diodes			
2w10m	1		B1
1n4742a	1		D1
	1		
1n4740a	l		D2
1n5822	1 		D3
1n4148	1		D4
Quartz resonators			
14MHz	1	HC49/S	Q1
4.433MHz	1	HC49/S	Q6
Resistors			
68	6	0.25W	R18, R19, R20, R21, R22, R23
75	4	0.25W	R26, R27, R28, R30
150			מח
130	1	0.25W	R33
270	1	0.25W 0.25W	R24, R25, R32
	1 3 2		
270		0.25W	R24, R25, R32
270 470	2	0.25W 0.25W	R24, R25, R32 R1, R2
270 470 1k	2	0.25W 0.25W 0.25W	R24, R25, R32 R1, R2 R34, R35, R36, R37, R42, R45
270 470 1k 2k	2 6 4	0.25W 0.25W 0.25W 0.25W	R24, R25, R32 R1, R2 R34, R35, R36, R37, R42, R45 R43, R44, R46, R49
270 470 1k 2k 2k2	2 6 4	0.25W 0.25W 0.25W 0.25W 0.25W	R24, R25, R32 R1, R2 R34, R35, R36, R37, R42, R45 R43, R44, R46, R49 R6, R15, R16, R17
270 470 1k 2k 2k2 2k7	2 6 4 4	0.25W 0.25W 0.25W 0.25W 0.25W	R24, R25, R32 R1, R2 R34, R35, R36, R37, R42, R45 R43, R44, R46, R49 R6, R15, R16, R17 R29
270 470 1k 2k 2k2 2k7 3k9	2 6 4 4 1	0.25W 0.25W 0.25W 0.25W 0.25W 0.25W	R24, R25, R32 R1, R2 R34, R35, R36, R37, R42, R45 R43, R44, R46, R49 R6, R15, R16, R17 R29 R10, R12, R14
270 470 1k 2k 2k2 2k7 3k9 4k7	2 6 4 4 1 3	0.25W 0.25W 0.25W 0.25W 0.25W 0.25W 0.25W	R24, R25, R32 R1, R2 R34, R35, R36, R37, R42, R45 R43, R44, R46, R49 R6, R15, R16, R17 R29 R10, R12, R14 R3, R47, R48
270 470 1k 2k 2k2 2k7 3k9 4k7 10k	2 6 4 4 1 3 3	0.25W 0.25W 0.25W 0.25W 0.25W 0.25W 0.25W 0.25W	R24, R25, R32 R1, R2 R34, R35, R36, R37, R42, R45 R43, R44, R46, R49 R6, R15, R16, R17 R29 R10, R12, R14 R3, R47, R48 R4, R5, R7, R8, R31, R39, R51, R52 R38, R50
270 470 1k 2k 2k2 2k7 3k9 4k7 10k 12k 18k	2 6 4 1 3 3 8 2	0.25W	R24, R25, R32 R1, R2 R34, R35, R36, R37, R42, R45 R43, R44, R46, R49 R6, R15, R16, R17 R29 R10, R12, R14 R3, R47, R48 R4, R5, R7, R8, R31, R39, R51, R52 R38, R50 R9, R11, R13
270 470 1k 2k 2k2 2k7 3k9 4k7 10k 12k 18k 33k	2 6 4 1 3 3 8 2	0.25W	R24, R25, R32 R1, R2 R34, R35, R36, R37, R42, R45 R43, R44, R46, R49 R6, R15, R16, R17 R29 R10, R12, R14 R3, R47, R48 R4, R5, R7, R8, R31, R39, R51, R52 R38, R50 R9, R11, R13 R41
270 470 1k 2k 2k2 2k7 3k9 4k7 10k 12k 18k	2 6 4 1 3 3 8 2	0.25W	R24, R25, R32 R1, R2 R34, R35, R36, R37, R42, R45 R43, R44, R46, R49 R6, R15, R16, R17 R29 R10, R12, R14 R3, R47, R48 R4, R5, R7, R8, R31, R39, R51, R52 R38, R50 R9, R11, R13
270 470 1k 2k 2k2 2k7 3k9 4k7 10k 12k 18k 33k 470k	2 6 4 1 3 3 8 2 3 1	0.25W	R24, R25, R32 R1, R2 R34, R35, R36, R37, R42, R45 R43, R44, R46, R49 R6, R15, R16, R17 R29 R10, R12, R14 R3, R47, R48 R4, R5, R7, R8, R31, R39, R51, R52 R38, R50 R9, R11, R13 R41 R40
270 470 1k 2k 2k2 2k7 3k9 4k7 10k 12k 18k 33k 470k 8 x 10k	2 6 4 1 3 3 8 2 3 1	0.25W	R24, R25, R32 R1, R2 R34, R35, R36, R37, R42, R45 R43, R44, R46, R49 R6, R15, R16, R17 R29 R10, R12, R14 R3, R47, R48 R4, R5, R7, R8, R31, R39, R51, R52 R38, R50 R9, R11, R13 R41 R40 RN1, RN3
270 470 1k 2k 2k2 2k7 3k9 4k7 10k 12k 18k 33k 470k 8 x 10k	2 6 4 1 3 3 8 2 3 1	0.25W 1.25W 0.25W 1.25W	R24, R25, R32 R1, R2 R34, R35, R36, R37, R42, R45 R43, R44, R46, R49 R6, R15, R16, R17 R29 R10, R12, R14 R3, R47, R48 R4, R5, R7, R8, R31, R39, R51, R52 R38, R50 R9, R11, R13 R41 R40 RN1, RN3
270 470 1k 2k 2k2 2k7 3k9 4k7 10k 12k 18k 33k 470k 8 x 10k 5 x 10k Inductors 68uH	2 6 4 1 3 3 8 2 3 1	0.25W 1.25W	R24, R25, R32 R1, R2 R34, R35, R36, R37, R42, R45 R43, R44, R46, R49 R6, R15, R16, R17 R29 R10, R12, R14 R3, R47, R48 R4, R5, R7, R8, R31, R39, R51, R52 R38, R50 R9, R11, R13 R41 R40 RN1, RN3 RN2
270 470 1k 2k 2k2 2k7 3k9 4k7 10k 12k 18k 33k 470k 8 x 10k Inductors 68uH Connectors	2 6 4 1 3 3 8 2 3 1 1	0.25W 1.25W	R24, R25, R32 R1, R2 R34, R35, R36, R37, R42, R45 R43, R44, R46, R49 R6, R15, R16, R17 R29 R10, R12, R14 R3, R47, R48 R4, R5, R7, R8, R31, R39, R51, R52 R38, R50 R9, R11, R13 R41 R40 RN1, RN3 RN2
270 470 1k 2k 2k2 2k7 3k9 4k7 10k 12k 18k 33k 470k 8 x 10k Inductors 68uH Connectors Power jack	2 6 4 1 3 3 8 2 3 1	0.25W 1.25W 0.25W 1.25W	R24, R25, R32 R1, R2 R34, R35, R36, R37, R42, R45 R43, R44, R46, R49 R6, R15, R16, R17 R29 R10, R12, R14 R3, R47, R48 R4, R5, R7, R8, R31, R39, R51, R52 R38, R50 R9, R11, R13 R41 R40 RN1, RN3 RN2 L1
270 470 1k 2k 2k2 2k7 3k9 4k7 10k 12k 18k 33k 470k 8 x 10k 5 x 10k Inductors 68uH Connectors Power jack Pin header 1x2	2 6 4 1 3 3 8 2 3 1 1 2	0.25W 1.25W	R24, R25, R32 R1, R2 R34, R35, R36, R37, R42, R45 R43, R44, R46, R49 R6, R15, R16, R17 R29 R10, R12, R14 R3, R47, R48 R4, R5, R7, R8, R31, R39, R51, R52 R38, R50 R9, R11, R13 R41 R40 RN1, RN3 RN2 L1 L1 J1 X9
270 470 1k 2k 2k2 2k7 3k9 4k7 10k 12k 18k 33k 470k 8 x 10k 5 x 10k Inductors 68uH Connectors Power jack Pin header 1x2 Pin header 1x3	2 6 4 1 3 3 8 2 3 1 1	0.25W 1.25W	R24, R25, R32 R1, R2 R34, R35, R36, R37, R42, R45 R43, R44, R46, R49 R6, R15, R16, R17 R29 R10, R12, R14 R3, R47, R48 R4, R5, R7, R8, R31, R39, R51, R52 R38, R50 R9, R11, R13 R41 R40 RN1, RN3 RN2 L1
270 470 1k 2k 2k2 2k7 3k9 4k7 10k 12k 18k 33k 470k 8 x 10k 5 x 10k Inductors 68uH Connectors Power jack Pin header 1x2 Pin header 2x5	2 6 4 1 3 3 8 2 3 1 1 2	0.25W 1.25W	R24, R25, R32 R1, R2 R34, R35, R36, R37, R42, R45 R43, R44, R46, R49 R6, R15, R16, R17 R29 R10, R12, R14 R3, R47, R48 R4, R5, R7, R8, R31, R39, R51, R52 R38, R50 R9, R11, R13 R41 R40 RN1, RN3 RN2 L1 J1 X9
270 470 1k 2k 2k 2k2 2k7 3k9 4k7 10k 12k 18k 33k 470k 8 x 10k Inductors 68uH Connectors Power jack Pin header 1x2 Pin header 1x3 Pin header 2x5 shrouded	2 6 4 1 3 3 8 2 3 1 1 2	0.25W 1.25W	R24, R25, R32 R1, R2 R34, R35, R36, R37, R42, R45 R43, R44, R46, R49 R6, R15, R16, R17 R29 R10, R12, R14 R3, R47, R48 R4, R5, R7, R8, R31, R39, R51, R52 R38, R50 R9, R11, R13 R41 R40 RN1, RN3 RN2 L1 J1 X9 JP1, JP2, JP3, JP5 X6
270 470 1k 2k 2k 2k2 2k7 3k9 4k7 10k 12k 18k 33k 470k 8 x 10k 5 x 10k Inductors 68uH Connectors Power jack Pin header 1x2 Pin header 1x3 Pin header 2x5 shrouded Pin header 1x9	2 6 4 1 3 3 8 2 3 1 1 1 2	0.25W 1.25W	R24, R25, R32 R1, R2 R34, R35, R36, R37, R42, R45 R43, R44, R46, R49 R6, R15, R16, R17 R29 R10, R12, R14 R3, R47, R48 R4, R5, R7, R8, R31, R39, R51, R52 R38, R50 R9, R11, R13 R41 R40 RN1, RN3 RN2 L1 L1 J1 X9 JP1, JP2, JP3, JP5 X6 X3
270 470 1k 2k 2k2 2k7 3k9 4k7 10k 12k 18k 33k 470k 8 x 10k 5 x 10k Inductors 68uH Connectors Power jack Pin header 1x2 Pin header 1x2 Pin header 2x5 shrouded Pin header 1x9 RCA connector	2 6 4 1 3 3 8 2 3 1 1 2	0.25W 1.25W	R24, R25, R32 R1, R2 R34, R35, R36, R37, R42, R45 R43, R44, R46, R49 R6, R15, R16, R17 R29 R10, R12, R14 R3, R47, R48 R4, R5, R7, R8, R31, R39, R51, R52 R38, R50 R9, R11, R13 R41 R40 RN1, RN3 RN2 L1 J1 X9 JP1, JP2, JP3, JP5 X6 X3 X1
270 470 1k 2k 2k2 2k7 3k9 4k7 10k 12k 18k 33k 470k 8 x 10k 5 x 10k Inductors 68uH Connectors Power jack Pin header 1x2 Pin header 1x3 Pin header 1x3 Pin header 1x9 RCA connector Mini-DIN 8	2 6 4 1 3 3 8 2 3 1 1 1 2	0.25W 1.25W	R24, R25, R32 R1, R2 R34, R35, R36, R37, R42, R45 R43, R44, R46, R49 R6, R15, R16, R17 R29 R10, R12, R14 R3, R47, R48 R4, R5, R7, R8, R31, R39, R51, R52 R38, R50 R9, R11, R13 R41 R40 RN1, RN3 RN2 L1 J1 X9 JP1, JP2, JP3, JP5 X6 X3 X1 X1 X2
270 470 1k 2k 2k2 2k7 3k9 4k7 10k 12k 18k 33k 470k 8 x 10k 5 x 10k Inductors 68uH Connectors Power jack Pin header 1x2 Pin header 1x2 Pin header 2x5 shrouded Pin header 1x9 RCA connector	2 6 4 1 3 3 8 2 3 1 1 1 2	0.25W 1.25W	R24, R25, R32 R1, R2 R34, R35, R36, R37, R42, R45 R43, R44, R46, R49 R6, R15, R16, R17 R29 R10, R12, R14 R3, R47, R48 R4, R5, R7, R8, R31, R39, R51, R52 R38, R50 R9, R11, R13 R41 R40 RN1, RN3 RN2 L1 J1 X9 JP1, JP2, JP3, JP5 X6 X3 X1
270 470 1k 2k 2k2 2k7 3k9 4k7 10k 12k 18k 33k 470k 8 x 10k 5 x 10k Inductors 68uH Connectors Power jack Pin header 1x2 Pin header 1x3 Pin header 1x3 Pin header 1x9 RCA connector Mini-DIN 8	2 6 4 1 3 3 8 2 3 1 1 1 1 1	0.25W 1.25W	R24, R25, R32 R1, R2 R34, R35, R36, R37, R42, R45 R43, R44, R46, R49 R6, R15, R16, R17 R29 R10, R12, R14 R3, R47, R48 R4, R5, R7, R8, R31, R39, R51, R52 R38, R50 R9, R11, R13 R41 R40 RN1, RN3 RN2 L1 J1 X9 JP1, JP2, JP3, JP5 X6 X3 X1 X1 X2
270 470 1k 2k 2k2 2k7 3k9 4k7 10k 12k 18k 33k 470k 8 x 10k 5 x 10k Inductors 68uH Connectors Power jack Pin header 1x2 Pin header 1x3 Pin header 1x3 Pin header 1x9 RCA connector Mini-DIN 8 Audio jack 3.5mm	2 6 4 1 3 3 8 2 3 1 1 1 1 1	0.25W 1.25W	R24, R25, R32 R1, R2 R34, R35, R36, R37, R42, R45 R43, R44, R46, R49 R6, R15, R16, R17 R29 R10, R12, R14 R3, R47, R48 R4, R5, R7, R8, R31, R39, R51, R52 R38, R50 R9, R11, R13 R41 R40 RN1, RN3 RN2 L1 J1 x9 JP1, JP2, JP3, JP5 X6 X3 X1 X1 X2 X4, X5