

BASE BOARD

Part	Used	PartType	Footprint	Designators
1	13	1.5pF	805	C3, [(C122, C124)x6]
2	6	2pF	805	[(C134)x6]
3	1	2.2pF	805	C18T
4	17	10pF	805	C1, C2, C13, C13A, C14, C14A, C15, C15A, C16, C16A, C29T, [(C135)x6]
5	2	12pF	805	C5T, C41T
6	3	18pF	805	C4, C5, C7T
7	1	39pF	805	C45
8	13	47pF	805	C20T, [(C76, C121)x6]
9	17	100pF	805	C23T, C24T, C46, C54, C60, [(C127, C156)x6]
10	26	180pF	805	C10T, C11T, C16T, C22T, C25, C26, C27, C28, [(C114, C115, C123)x6]
11	7	470pF	805	C36, [(C147)x6]
12	12	560pF	805	C50, C37, C47, C48, C49, C61, [(C151)x6]
13	7	820pF Film or NPO	805	C59, [(C137)x6]
14	6	.0015uF	805	C21, C22, C23, C24, C57, C62
15	51	.001uF	805	C1T, C21T, C8T, C9T, C31T, C17, C18, C19, C20, [(C157, C110, C112, C113, C120, C126, C146)x6]
16	34	.01uF	805	C12T, C15T, C32T, C33T, C35T, C36T, C37T, C38T, C39T, C40T, C28T, C9, C8, [(C109, C136, C140)x6]
17	125	.1uF	805	C14T, C19T, C2T, C3T, C4T, C34T, C26T, C45T, C50T, C92, C38, C39, C40, C41, C42, C43, C56, C58, C64, C68, C70, C81, C96, C12, [(C111, C139, C128, C129, C130, C131, C132, C133, C148, C149, C155, C116, C117, C119, CC, CF, C145)x6]
18	12	.22uF	805	C29, C30, C31, C32, C33, C34, [(C152)x6]
19	6	.47uF	1206	[(C163)x6]
20	2	.68uF, 100V	RAD 0.3	C44, C44A
21	8	1uF	1206	C49T, C53, [(C143)x6]
22	22	2.2uF	1206	C25T, C47T, C55, C63, [(C141, C142, C153)x6]
23	2	4.7uF	1206	C46T, C54A
24	15	10uF	1206	C52, C69A, C72, [(C138, C138A)x6]
25	14	22uF	1210	C13T, C27T, [(C144, C154)x6]
26	8	47uF	1812	C17T, C51, [(C118)x6]
27	15	100uF	RAD 0.1	C11, C35, C97, [(C150, C157A)x6]
28	1	1000uF	RAD 0.14	C10
29	1	1-6pF	1812	C6
30	9	3-10pF	1812	C6T, C30T, C7, [(C125)x6]
31	6	See Table 1	805	[(C1T)x6]
32	1	10	805	R2
33	19	100	805	R22T, R26T, C65, C66, R1, R51, R81, [(R147, R169)x6]
34	2	220	805	R41T, R48T
35	6	270	805	[(R150)x6]
36	8	470	805	R3, R4, R5, R6, R7, R8, R9, R9A
37	7	820	805	R20T, [(R145)x6]
38	9	1K	805	R11T, R16T, R17T, R38T, R40T, R34, R40, R73, R74

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39	2	1.5K	805	R36, R82
40	31	2.2K	805	R11, R33T, R34T, R36T, R37T, R30, R31, R32, R33, R52, R55, R60, R83, [(R130, R142, R166)x6]
41	8	3.3K	805	R14T, R63, [(R157)x6]
42	3	4.7K	805	R32A, R54, R57
43	1	5K	POTSM3	R69
44	13	5.1K	805	R18T, [(R140, R140A)x6]
45	8	6.2K	805	R19T, R86, [(R143)x6]
46	41	10K	805	R12T, R21T, R31T, R35T, R36, R38, R39, R58, R63A, R70, R71, R75, R76, R77, R78, R79, R80, [(R84, R85, R141, R144)x6]
47	4	12.1K	805	R21, R22, R23, R67
48	3	14.2K	805	R27, R28, R29
49	2	15K	805	R15T, R65
50	3	16.2K	805	R19, R19A, R20
51	10	18.7K	805	R13T, R24, R25, R26, [(RA)x6]
52	16	20K	805	R46T, R37, R48, R49, [(R159, R160)x6]
53	4	20K	POTSM3	R59, R42, R72, R50
54	8	27K	805	R30T, R114, [(RD)x6]
55	3	28.7K	805	R47T, R61, R62
56	1	33K	805	R23T
57	15	39K	805	R9T, R10T, R113, [(R138, R139)x6]
58	19	47K	805	R25T, R52T, R53T, R64, R68, R87, R115, [(RB, R170)x6]
59	3	50K	POTSM3	R49T, R35, R41
60	1	82K	805	R27T
61	36	100K	805	R24T, R44T, R45T, R46, R47, R66, [(R95A, R148, R155, R158, RE)x6]
62	5	330K	805	R15, R16, R17, R18, R90
63	29	390K	805	R5T, R6T, R7T, R8T, R32T, [(R134, R135, R136, R137)x6]
64	6	470K	805	[(R149)x6]
65	9	820K	805	R28T, R42T, R43T, [(R154)x6]
66	1	1M	805	R29T
67	4	10M	805	R11, R12, R13, R14
68	6	RSIP8-10K	SIP8	RP1, RP2, RP3, RP4, RP5, RP8
69	2	RSIP8-1M	SIP8	RP6, RP7
70	6	See Table 2	805	[(R151)x6]
71	9	.039uH	1210	L3T, L4T, L3, [(L9)x6]
72	7	.063uH	TOKO MC152	L2T, [(L7)x6]
73	2	.082uH	TOKO294SN	L1, L2
74	8	1.0uH	1210	L1T, L4 [(L6)x6]
75	6	180uH	1210	[(L10)x6]
76	1	28KHz	RAD 0.1	Y4
77	1	32KHz	RAD 0.1	Y2
78	1	75KHz	RAD 0.1	Y3
79	1	96KHz	RAD 0.1	Y1

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1	13	1.5pF	805	C3, [(C122, C124)x6]
2	6	2pF	805	[(C134)x6]
3	1	2.2pF	805	C18T
4	17	10pF	805	C1, C2, C13, C13A, C14, C14A, C15, C15A, C16, C16A, C29T, [(C135)x6]
5	2	12pF	805	C5T, C41T
6	3	18pF	805	C4, C5, C7T
7	1	39pF	805	C45
8	13	47pF	805	C20T, [(C76, C121)x6]
9	17	100pF	805	C23T, C24T, C46, C54, C60, [(C127, C156)x6]
10	26	180pF	805	C10T, C11T, C16T, C22T, C25, C26, C27, C28, [(C114, C115, C123)x6]
11	7	470pF	805	C36, [(C147)x6]
12	12	560pF	805	C50, C37, C47, C48, C49, C61, [(C151)x6]
13	7	820pF Film or NPO	805	C59, [(C137)x6]
14	6	.0015uF	805	C21, C22, C23, C24, C57, C62
15	51	.001uF	805	C1T, C21T, C8T, C9T, C31T, C17, C18, C19, C20, [(C157, C110, C112, C113, C120, C126, C146)x6]
16	34	.01uF	805	C12T, C15T, C32T, C33T, C35T, C36T, C37T, C38T, C39T, C40T, C28T, C9, C8, [(C109, C136, C140)x6]
17	125	.1uF	805	C14T, C19T, C2T, C3T, C4T, C34T, C26T, C45T, C50T, C92, C38, C39, C40, C41, C42, C43, C56, C58, C64, C68, C70, C81, C96, C12, [(C111, C139, C128, C129, C130, C131, C132, C133, C148, C149, C155, C116, C117, C119, CC, CF, C145)x6]
				C29, C30, C31, C32, C33, C34, [(C152)x6]
18	12	.22uF	805	[(C163)x6]
19	6	.47uF	1206	C44, C44A
20	2	.68uF, 100V	RAD 0.3	C49T, C53, [(C143)x6]
21	8	1uF	1206	C25T, C47T, C55, C63, [(C141, C142, C153)x6]
22	22	2.2uF	1206	C46T, C54A
23	2	4.7uF	1206	C52, C69A, C72, [(C138, C138A)x6]
24	15	10uF	1206	C13T, C27T, [(C144, C154)x6]
25	14	22uF	1210	C17T, C51, [(C118)x6]
26	8	47uF	1812	C11, C35, C97, [(C150, C157A)x6]
27	15	100uF	RAD 0.1	C10
28	1	1000uF	RAD 0.14	C6
29	1	1-6pF	1812	C6T, C30T, C7, [(C125)x6]
30	9	3-10pF	1812	[(C1T)x6]
31	6	See Table 1	805	R2
32	1	10	805	R22T, R26T, C65, C66, R1, R51, R81, [(R147, R169)x6]
33	19	100	805	R41T, R48T
34	2	220	805	[(R150)x6]
35	6	270	805	R3, R4, R5, R6, R7, R8, R9, R9A
36	8	470	805	R20T, [(R145)x6]
37	7	820	805	R11T, R16T, R17T, R38T, R40T, R34, R40, R73, R74
38	9	1K	805	

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39	2	1.5K	805	R56, R82
40	31	2.2K	805	R1T, R33T, R34T, R36T, R37T, R30, R31, R32, R33, R52, R55, R60, R83, [(R130, R142, R166)x6]
41	8	3.3K	805	R14T, R63, [(R157)x6]
42	3	4.7K	805	R32A, R54, R57
43	1	5K	POTSM3	R69
44	13	5.1K	805	R18T, [(R140, R140A)x6]
45	8	6.2K	805	R19T, R86, [(R143)x6]
46	41	10K	805	R12T, R21T, R31T, R35T, R36, R38, R39, R58, R63A, R70, R71, R75, R76, R77, R78, R79, R80, [(R84, R85, R141, R144)x6]
47	4	12.1K	805	R21, R22, R23, R67
48	3	14.2K	805	R27, R28, R29
49	2	15K	805	R15T, R65
50	3	16.2K	805	R19, R19A, R20
51	10	18.7K	805	R13T, R24, R25, R26, [(RA)x6]
52	16	20K	805	R46T, R37, R48, R49, [(R159, R160)x6]
53	4	20K	POTSM3	R59, R42, R72, R50
54	8	27K	805	R30T, R114, [(RD)x6]
55	3	28.7K	805	R47T, R61, R62
56	1	33K	805	R23T
57	15	39K	805	R9T, R10T, R113, [(R138, R139)x6]
58	19	47K	805	R25T, R52T, R53T, R64, R68, R87, R115, [(RB, R170)x6]
59	3	50K	POTSM3	R49T, R35, R41
60	1	82K	805	R27T
61	36	100K	805	R24T, R44T, R45T, R46, R47, R66, [(R95A, R148, R155, R158, RE)x6]
62	5	330K	805	R15, R16, R17, R18, R90
63	29	390K	805	R5T, R6T, R7T, R8T, R32T, [(R134, R135, R136, R137)x6]
64	6	470K	805	[(R149)x6]
65	9	820K	805	R28T, R42T, R43T, [(R154)x6]
66	1	1M	805	R29T
67	4	10M	805	R11, R12, R13, R14
68	6	RSIP8-10K	SIP8	RP1, RP2, RP3, RP4, RP5, RP8
69	2	RSIP8-1M	SIP8	RP6, RP7
70	6	See Table 2	805	[(R151)x6]
71	9	.039uH	1210	L3T, L4T, L3, [(L9)x6]
72	7	.063uH	TOKO_MC152	L2T, [(L7)x6]
73	2	.082uH	TOKO294SN	L1, L2
74	8	1.0uH	1210	L1T, L4 [(L6)x6]
75	6	180uH	1210	[(L10)x6]
76	1	28KHz	RAD 0.1	Y4
77	1	32KHz	RAD 0.1	Y2
78	1	75KHz	RAD 0.1	Y3
79	1	96KHz	RAD 0.1	Y1

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80	1	6.4MHZ	XTALSM	XTAL1
81	1	2PIN	MTA2	PL
82	1	5PIN	MTA5	J6
83	1	BNC	BNC	J7
84	1	CON3	MTA3	J4
85	1	CON6	DIN9	SYSTEM 2
86	1	MTA	MTA3	J3
87	1	PWR JACK	COAXPWR	J1
88	2	RCA	RCARA	J5 J8
89	1	RJ-11	PHONJAK4	J2
90	1	SOCKET		J1G
91	18	FILTER	ELK-AH	[(FL4, FL5, FL6)x6]
92	6	HELICRES	TOKO_CBW	[(L8)x6]
93	7	LED	T1	D1, D2, D3, D4, D5, D6, D7
94	1	SW DPDT	DPDTSIDE	S10
95	14	SW SO-8	SW8_SO16SM	S5T, S6T, [(S8, S9)x6]
96	6	SW-4TL	SW-3P4T	SW1, SW2, SW3, SW4, SW5, SW6
97	1	AUDIO	PHONXFMR	T1
98	1	POLY SWITCH	AXIAL 0.4	F1, RXE 090
99	6	2N3904	SOT-23	[(Q6)x6]
100	1	2N4403	SOT-23	Q6T
101	1	4013	SO-14	U5
102	1	4046	SO-16	U17
103	3	4066	SO-14	U18, U19, U20
104	1	4069	SO-14	U4
105	7	45152	SOL-28	U2T, [(U31)x6]
106	1	7805	TO-220	U7
107	1	AD1582A	SOT-23	D8
108	9	BF998	SOT-143	Q4T, Q5T, Q7, [(Q12)x6]
109	6	BSS138	SOT-23	[(Q13)x6]
110	7	MA4ST401CK-287	SOT-23	Q1T, [(Q10)x6]
111	7	MB504LPFER	SOW-8	U1T, [(U30)x6]
112	1	MC74HC393	SO-14	U6
113	6	MIC5207	SOT23-5	[(U34)x6]
114	6	MMBD6050LT1	SOT-23	[(D9)x6]
115	7	MMBT81LT1	SOT-23	Q2T, [(Q11)x6]
116	1	NDS352	SOT-23	Q3T
117	8	NE575	SOL-20	U35 (CH3), U16, [(U35)x6]
118	1	NJM7806FA	TO-220	U3
119	5	OP279	SO-8	U9, U10, U13, U14, U15
120	15	OP291	SO-8	U3T, U11, U12, [(U32, UX)x6]
121	6	SA626	SOL-20	[(U33)x6]

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122	1	SPLITER6	SPLITER6	U2
123	6	XR2211	SO-14	[(U25)x6]
Table 1				
	Ch	Freq. (kHz)	CT (uF)	
	1	32.768	0.12	
	2	46.6	0.082	
	3	36	0.1	
	4	28	0.12	
	5	38 or 40	0.1	
	6	30	0.12	
Table 2				
		Freq. (kHz)	R151 (Kohm)	
		28	43.2	
		30	40.2	
		32.768	37.4	
		36	34	
		40	30.1	
		46.608	26.1	