

# P1808 Part List

## Main Board Bottom Side SMT Parts

Item	P/N	Description	Qty	Designated	Reference No.
1	KCC-T106DAM	CAP. TANT. CHIP 10V 10UF 3216	3	C129, C127, C263	
2	KCC-T226CM34281	CAP. TANT. CHIP 22uF M 6. 3V B SIEMET	1	C186	
3	KCC-T475DK32167	CAP TANT CHIP 10V K 4. 7UF 26552-11 TAJA475K010RNJ	1	C185	
4	KCC-100FJNP0MUG	CAP CHIP 50V +/-5% COG 10PF 0402 GRM1555C1H100JZ01D	7	C106, C113, C131, C176, C24, C70, C202	
5	KCC-100FRJNPOE	CAP CER CHIP 50V CH J 10PF MURATA	1	C302	
6	KCC-101FJCOGEYG	CAP CER CHIP 50V COG J% 100PF 0402 C0402C0G101J500NT EYA	7	C53, C81, C102, C112, C136, C180, C97	
7	KCC-101FJCOGMUG	CAP. CHIP 50V COG +/-5% 100PF 0402 GRM1555C1H101JZ01D	1	C286	
8	KCC-102ERKEYG	CAP CR 1N 10% 25V X7R 0402	21	C21, C27, C32, C34, C35, C44, C74, C77, C78, C85, C86, C87 C90, C119, C126, C161, C227, C271, C343, C344, C59	
9	KCC-102FKBMUG	CAP. CHIP 50V +/-10% X7R 0. 001UF 0402 GRM155R71H102KA01D	10	C12, C69, C292, C15, C22, C94, C166, C169, C297, C173	
10	KCC-103BKGNNG	CAP CER CHIP 10V X7R +/-10% 0. 01uF EYANG	8	C84, C111, C115, C117, C162, C259, C42, C68	
11	KCC-104DZFEYG	CAP CER CHIP 16V Y5V Z 0. 1uF EYANG	12	C54, C89, C93, C108, C140, C165, C172, C174, C175, C214 C177, C124	
12	KCC-105CZY5VEYG	CAP. CER. CHIP 6. 3V Y5V Z 1UF 0402	1	C135	
13	KCC-105DKBEYB	CAP CER 1U 10% 16V X7R 0603	4	C118, C150, C154, C141	
14	KCC-106BRZFM-1	CAP. CHIP 10V Y5V Z% 10UF 1206GRM31MF51A106ZA01L	4	C13, C215, C216, C198	
15	KCC-109FBXPMUG	CAP CHIP 50V +/-0. 1PF COG 1PF 0402 GRM1555C1H1R0BZ01D	2	C204, C63	
16	KCC-120FJCOGMUG	CAP. CHIP 50V COG +/-5% 12PF 0402 GRM1555C1H120JZ01D	2	C109, C130	
17	KCC-121FJCOGEYG	CAP CER CHIP 50V COG J 120PF	1	C142	
18	KCC-121FRJNPOE	CAP CER CHIP 50V COG +/-5% 120PF 0603 GRM1885C1H121JA01D	1	C301	
19	KCC-123DKBEYG	CAP CER CHIP 16V X7R +/-10% 0. 012u EYANG	1	C246	
20	KCC-150FJCOGEYG	CAP CER CHIP 50V COG J 15PF	2	C23, C60	
21	KCC-151FJCOGEYG	CAP CER CHIP 50V COG J 150PF	1	C18	
22	KCC-152FKBEYG	CAP CER 50V X7R K 1500PF 0402	1	C240	
23	KCC-183DKBEYG	CAP CER CHIP 16V X7R +/-10% 0. 018u EYANG	1	C314	
24	KCC-209FBCOGMUG	CAP. CHIP 50V COG +/-0. 1PF 2PF 0402 GRM1555C1H2R0BZ01D	1	C64	
25	KCC-209FRBNPOE	CAP. CER. CHIP 50V CH B% 2PF	1	C48	
26	KCC-220FJCOGEYG	CAP CER CHIP 50V COG J 22P	3	C103, C121, C37	
27	KCC-221FJCOGGNG	CAP CER CHIP 50V COG +/-5% 220PF EYANG	2	C138, C245	
28	KCC-223DKBEYG	CAP CER CHIP 16V B K 22NF	3	C133, C325, C247	
29	KCC-224BKX5RMUG	CAP CHIP 10V +/-10% X5R 0. 22UF 0402 GRM155R61A224KE19D	1	C205	
30	KCC-229FRBNPOE	CAP. CER. CHIP 50V COG B% 2. 2PF	1	C4	
31	KCC-270FJCOGEYG	CAP CER CHIP 50V COG J 27PF	1	C313	
32	KCC-271FJNP0MUG	CAP. CHIP 50V COG +/-5% 270PF 0402 GRM1555C1H271JA01D	4	C284, C9, C16, C293	
33	KCC-279FRCP0B	CAP. CER. CHIP 50V CH C% 2. 7PF	1	C66	
34	KCC-309FBCOGEYG	CAP CERCHIP 50V COG B 3PF	2	C36, C187	
35	KCC-330FJCOGEYG	CAP CER CHIP 50V COG J 33PF	1	C67	
36	KCC-330FRCP0B	CAP. CER. CHIP 50V CH C% 33PF	1	C8	
37	KCC-332FKBMUG	CAP CHIP 50V +/-10% X7R 3. 3NF 0402 GRM155R71H332KA01D	2	C171, C208	
38	KCC-409FCNP0MTB	CAP. CHIP 50V COG +/-0. 25P 4PF 0603 GRM1885C1H4ROCZ01D	1	C1	
39	KCC-409FCNP0MUG	CAP. CHIP 50V COG +/-0. 25PF 4PF0402 GRM1555C1H4ROCZ01D	5	C33, C71, C101, C199, C201	
40	KCC-470FJCOGEYG	CAP CER CHIP 50V COG J 47PF	5	C28, C73, C51, C52, C58	

41	KCC-470FJNP0MUG	CAP CHIP 47PF+/-5% COG 50V 0402 GRM1555C1H470JZ01D	2	C14, C20
42	KCC-471FJCOGEYG	CAP CER CHIP 50V 50V CUG J 470PF	3	C75, C80, C183
43	KCC-471FKBMUG	CAP CER CHIP 50V X7R +/-10% 470PF 0402 GRM155R71H471KA01	8	C91, C92, C197, C100, C99, C192, C193, C55
44	KCC-475BRXK7RF	CAP CER CHIP 10V X7R K 4. 7UF 25479-49 GRM40X7R475K010BX	1	C29
45	KCC-508FBCOGMUG	CAP CHIP 50V COG +/-0. 1PF 0. 5PF 0402 GRM1555C1HR50BZ01D	2	C116, C241
46	KCC-508FRCNPOE	CAP.CHIP 50V COG +/-0. 25PF 0. 5PF 0603 GRM1885C1HR50CZ01D	1	C7
47	KCC-508FRCNPOE	CAP.CHIP 50V COG +/-0. 25PF 0. 5PF 0603 GRM1885C1HR50CZ01D	1	C157
48	KCC-509FBCOGEYG	CAP CER CHIP 50V COG B 5PF	2	C178, C120
49	KCC-509FCNP0MUG	CAP.CHIP 50V CH +/-0. 25PF 5PF 0402 GRM1555C1H5R0CZ01D	4	C132, C206, C159, C25
50	KCC-560FJNP0MUG	CAP CHIP 50V COG +/-5% 56pF 0402 GRM1555C1H560JZ01D	2	C104, C236
51	KCC-562EKBGNG	CAP CER CHIP 25V XTR +/-10% 5 6nF EYANG	1	C315
52	KCC-609FCNP0MUG	CAP. CER. CHIP 50V CH C% 6PF MURATA	9	C40, C41, C43, C50, C56, C62, C151, C46, C324
53	KCC-609FRCNPOE	CAP.CHIP 50V COG +/-0. 25PF 6PF0603 GRM1885C1H6R0CZ01D	3	C285, C5, C3
54	KCC-681FKBMUG	CAP. CHIP +/-10% 50V X7R 680PF0402 GRM155R71H681KA01D	1	C143
55	KCC-709FCNP0MUG	CAP. CER. CHIP 50V COG +/-0. 25PF 7PF 0402 GRM1555C1H7R0C	2	C72, C65
56	KCC-709FRCNPOB	CAP.CHIP 50V COG +/-0. 25PF 7PF0603 GRM1885C1H7R0CZ01D	3	C196, C195, C6
57	KCC-809FCNP0MUG	CAP CER CHIP 50V COG +/-0. 25PF 8PF 0402 GRM1555C1H8R0CZ0	1	C39
58	KCC-809FRDNP0B	CAP.CHIP 50V COG +/-0. 5PF 8PF 0603 GRM1885C1H8R0DZ01D	3	C11, C83, C207
59	KCC-820FJCOGMUG	CAP CER CHIP 50V COG +/-5% 82P 0402 GRM1555C1H820JZ01D	1	C47
60	KCC-829FCOGMUG	CAP CHIP 50V COG +/-0. 25PF 8. 2PF 0402 GRM1555C1H8R2CZ01D	5	C125, C79, C19, C110, C211
61	KCC-909FCOGEYG	CAP.CER CHIP 50V COG +/-0. 25P 9PF EYANG	1	C134
62	KCC-909FRDNP0B	CAP. CER. CHIP 50V CH D% 9PF	1	C88
63	KCD-HVC376B	DIODE VARACTOR HVC376BTRF-E	8	D3, D6, D7, D14, D17, D18, D19, D20
64	KCD-IN4148WTST	DIODE CHIP IN4148WTST SEM	1	D12
65	KCD-MA2S077	DIODE CHIP MA2S077	4	D2, D10, D11, D21
66	KCD-MA2S111	DIODE CHIP MA2S111	1	D4
67	KCD-MA2S376	DIODE VARACTOR MA2S37600L	4	D8, D9, D13, D22
68	KCD-IN4148WS	DIODE CHIP FAST SWITCH SOD323 60806-01 IN4148WS/BAV16WS	1	D16
69	KCD-1SV239	DIODE VARACTOR CHIP 1SV239 TOSHIBA	1	D15
70	KCD-1SV307	DIODE SW CHIP 1SV307 TOSHIBA	1	D1
71	KCL-101MU-1	INDUCTOR CHIP 100NH +-5% 0603 LQG18HNR10J00D	4	L38, L51, L34, L37
72	KCL-120MU-JG	INDUCTOR CHIP 12NH J 0402 LQG15HN12NJ02D	1	L14
73	KCL-120MU-1	INDUCTOR CHIP 12NH +-5% 0603 LQG18HN12NJ00D	1	L10
74	KCL-151KD-JA	INDUCTOR CHIP 150NH +-5% 0805CS-151J	1	L35
75	KCL-180MU-JG	COILS LQG15NH18NJ02 18NH +/-5% 0402	2	L15, L32
76	KCL-220MU-JG	INDUCTOR CHIP 22NH +-5% LQG15HN22NJ02D	3	L28, L29, L31
77	KCL-220MU-1	INDUCTOR CHIP 22NH +-5% 0603 LQG18HN22NJ00D	1	L12
78	KCL-270MU-JG	INDUCTOR CHIP 27NH +/-5% 0402 LQG15HN27NJ02D	2	L17, L30
79	KCL-399MU-3	INDUCTOR CHIP 39NH +/-0.3 LQG18HN39S00D 0603	1	L7
80	KCL-470KD-JA	INDUCTOR CHIP 47NH +-5% 0805CS-470J	2	L23, L21
81	KCL-681KD-JA	INDUCTOR CHIP 680NH +-5% 0805CS-681J	1	L4
82	KCL-821KD-JA	INDUCTOR CHIP 820NH +-5% 0805CS-821J	1	L27
83	KCR-000A	RES. CHIP 1/10W 0 OHM	1	L6
84	KCR-000B	RES. CHIP 1/16W 0 OHM	2	L41, R239
85	KCR-000G	RES. CHIP 1/16W 0 OHM	7	R133, RT4, L43, R85, R21, R137, C167
86	KCR-100G	RES. CHIP 1/16W 10 OHM	4	L13, R166, R184, R18
87	KCR-101G	RES. CHIP 1/16W 100 OHM	5	R7, R63, R100, R163, R123

88	KCR-102G	RES. CHIP 1/16W 1K	9	R61, R92, R103, R153, R227, R70, R69, R84, R83
89	KCR-103G	RES. CHIP 1/16W 10K	3	R130, R175, R200
90	KCR-103TMC3KB	CHIP VR NOBLE TMC3KB10K TR 10K	1	VR3
91	KCR-104G	RES. CHIP 1/16W 100K	9	R8, R23, R29, R48, R51, R86, R101, R199, R221
92	KCR-123G	RES CHIP 1/16W 5% 12K 0402	1	R60
93	KCR-124G	RES CHIP 1/16W 5% 120K 0402	2	R80, R198
94	KCR-153G	RES. CHIP 1/16W 15K	3	R45, R46, C105
95	KCR-154G	RES. CHIP 1/16W 5% 150K 0402	5	R49, R144, R78, R164, R59
96	KCR-180G	RES CHIP 1/16W 5% 180HM 0402	1	R14
97	KCR-182G	RES CHIP 1/16W 5% 1.8K 0402	2	R50, R90
98	KCR-183G	RES CHIP 1/16W 5% 18K 0402	1	R135
99	KCR-184G	RES CHIP 1/16W 5% 180K 0402	1	R87
100	KCR-202G	RES CHIP 1/16W 5% 2K OHM 0402	1	R182
101	KCR-203G	RES CHIP 1/16W 5% 20K 0402	1	R65
102	KCR-221B	RES. CHIP 1/16W 220	1	R216
103	KCR-221G	RES. CHIP 1/16W 220	6	R41, R42, R116, R28, L19, L22
104	KCR-222G	RES. CHIP 1/16W 2.2K 5% 0402	2	R19, R129
105	KCR-223G	RES. CHIP 1/16W 22K	1	R112
106	KCR-224G	RES. CHIP 1/16W 220K	3	R40, R52, R143
107	KCR-272G	RES. CHIP 1/16W 2.7K	1	C122
108	KCR-273G	RES CHIP 1/16W 5% 27K 0402	1	R4
109	KCR-302G	RES. CHIP 1/16W 3K	2	R54, R22
110	KCR-331G	RES. CHIP 1/16W 330 OHM 0402	2	R2, R13
111	KCR-332G	RES. CHIP 1/16W 3.3K 0402	1	R47
112	KCR-333G	RES. CHIP 1/16W 33K	4	R10, R17, R27, R118
113	KCR-391G	RES. CHIP 1/16W 390	2	R1, R36
114	KCR-392G	RES. CHIP 1/16W 3.9K	1	R283
115	KCR-394G	RES CHIP 1/16W 5% 390K 0402	1	R76
116	KCR-431G	RES. CHIP 1/16W 5% 4300HM 0402	1	R108
117	KCR-470G	RES. CHIP 1/16W 47	3	R55, R58, R82
118	KCR-471G	RES. CHIP 1/16W 470	2	R66, R192
119	KCR-472G	RES. CHIP 1/16W 4.7K 0402	5	R91, R138, R24, R12, R209
120	KCR-473G	RES. CHIP 1/16W 47K	3	R258, R89, R20
121	KCR-503TMC3KB	CHIP VR NOBLE TMC3KB50K TR/D	1	VR2
122	KCR-510G	RES. CHIP 1/16W 51 OHM	2	R34, R15
123	KCR-512G	RES CHIP 1/16W 5% 5.1K 0402	1	R105
124	KCR-513G	RES. CHIP 1/16W 51K 5% 0402	3	R32, R26, R119
125	KCR-563G	RES. CHIP 1/16W 56K	3	R6, R16, R5
126	KCR-564G	RES. CHIP 1/16W 560K 0402	1	R285
127	KCR-682G	RES. CHIP 1/16W 6.8K 0402	2	R56, R149
128	KCR-683G	RES CHIP 1/16W 5% 68K 0402	2	R30, R88
129	KCR-821G	RES. CHIP 1/16W 820	3	R106, R9, R3
130	KCR-823G	RES. CHIP 82K 1/16W 0402	6	R62, R31, R37, R67, R104, R11
131	KCT-BC847BW	TR. CHIP NPN BC847BW-G0021 SOT-323	5	Q19, Q26, Q31, Q3, Q7
132	KCT-2SC5343UF	TR. CHIP NPN 2SC5343UF SOT-323F	0	Q19, Q26, Q31, Q3
133	KCT-2SC4177-T1	TR. CHIP NPN 2SC4177-T1 L6	0	Q19, Q26, Q31, Q3
134	KCT-2SC4116GR	TR CHIP NPN 2SC4116GR	0	Q19, Q26, Q31, Q3

135	KCT-BF1212WR	TR. CHIP FE1 BF1212WR	1	Q8
136	KCT-EMX2	TR. CHIP NPN EMX2	1	Q9
137	KCT-RD01MVS1	TR. CHIP FET RD01MUS2-T113	1	Q5
138	KCT-2SC4226-R25	TR. CHIP NPN 2SC4226-R25 NEC	2	Q1, Q2
139	KCT-2SC4617R	TR. CHIP NPN 2SC4617R	1	Q14
140	KCT-2SC4901	TR. CHIP NPN 2SC4901	4	Q10, Q12, Q16, Q25
141	KCT-2SC5090-0	TR. CHIP NPN 2SC5090	1	Q4
142	KCT-2SK3077	TR. CHIP FET N CHANNEL MOS TYPE	1	Q11
143	KCT-2SK3476	TR. CHIP FET 2SK3476 TOSHIBA	1	Q6
144	KCX-C005	VC-TCX0 DSA535SC 14. 85MHZ	1	Y2
145	KEIC-AZ324M	IC AZ324 SOIC-14 QUAD OP AMP	1	U3
146	KEIC-LM324D-A	IC LM324D 14SOP ON	0	U3
147	KEIC-MB15E03SL	IC MB15E03SLPFV1-G-BND-6 PLL	1	U4
148	KEIC-TAR5S50	IC TAR5S50 5.0V REGULATOR TOSHIBA	1	U15
149	KEIC-TA31136FN	IC TA31136-ER IF IC SOP	1	U2
150	KEJ-509	BATTERY CONNECTOR 3PIN BC47S13D	1	J3
151	KEL-S142	COIL SPRING 0. 31X1. 4X4TS WFD	1	L18
152	KEL-S143	COIL SPRING 0. 31X1. 7X8TS WFD	1	L5
153	KEL-S144	SPRING COIL 0. 28X1. 3X5TS WFD	1	L25
154	KEL-S145	SPRING COIL 0. 28X1. 1X5TS WFD	1	L33
155	KEL-S146	SPRING COIL 0. 31X1. 0X6. 5TS WFD	2	L8, L24
156	KEL-S155	COIL SPRING E20. 31X1. 0X4. 5TS WFD	3	L1, L2, L3
157	KEL-S156	COIL SPRING E20. 31X1. 0X3. 5TS WFD	1	L36
158	KEL-S157	SPRING COIL E20. 35X0. 9X2. 5TS WFD	1	L40
159	KEL-S158	SPRING COIL EL0. 28X0. 95X5TS WFD	4	L11, L20, L16, L26

### Main Board Top Side SMT Parts

Item	P/N	Description	Qty	Designated Reference No.
160	KCC-T106DAM	CAP. TANT. CHIP 10V 10UF 3216	2	C30, C184
161	KCC-T226DM3428	CAP. TANT. CHIP 22uF 10V M 3428	1	C203
162	KCC-100FJNPOMUG	CAP CHIP 50V +/-5% COG 10PF 0402 GRM1555C1H100JZ01D	2	C221, C318
163	KCC-101FJCOGEYG	CAP CER CHIP 50V COG J% 100PF 0402 C0402C0G101J500NT EYA	2	C149, C153
164	KCC-101FJCOGGNG	CAP CER CHIP 50V COG +/-5% 100PF EYANG	1	C239
165	KCC-102FKBGNG	CAP CER CHIP 50V X7R +/-10% 0. 001u EYANG	12	C17, C26, C31, C57, C98, C123, C160, C188, C190, C191, C235
166	KCC-103BKBGNG	CAP CER CHIP 10V X7R +/-10% 0. 01uF EYANG	2	C257
167	KCC-104DZFEYG	CAP CER CHIP 16V Y5V Z 0. 1uF EYANG	7	C114, C220
168	KCC-105DKBEYB	CAP CER 1U 10% 16V X7R 0603	8	C45, C194, C209, C217, C238, C182, C212
169	KCC-106BRZFM-1	CAP. CHIP 10V Y5V Z% 10UF 1206GRM31MF51A106ZA01L	8	C82, C234, C244, C264, C280, C179, C222, C224
170	KCC-151FJCOGEYG	CAP CER CHIP 50V COG J 150PF	3	C170, C272, C128
171	KCC-153DKBMUG	CAP CER CHIP 16V +/-10% X7R 0. 015UF 0402 GRM155R71C153KA	1	C163
172	KCC-183DKBEYG	CAP CER CHIP 16V X7R +/-10% 0. 018u EYANG	1	C144
173	KCC-221FJCOGGNG	CAP CER CHIP 50V COG +/-5% 220PF EYANG	1	C145
174	KCC-223DKBEYG	CAP CER CHIP 50V COG +/-5% 220PF EYANG	1	C156
175	KCC-224DKBKM	CAP. CHIP 16V X7R +/-10% 0. 22UF0805 GRM219R71C224KA01D	7	C147, C158, C164, C218, C146, C189, C181
176	KCC-273BKBEG	CAP CER 10V X7R K 27NF 0402	1	C96
177	KCC-332FKBMUG	CAP CHIP 50V +/-10% X7R 3. 3NF 0402 GRM155R71H332KA01D	2	C219, C148
			2	C152, C223

178	KCC-333KBEG	CAP CER CHIP 10V X7R K 0.033UF EYANG	1	C168
179	KCC-470FJCOGEYG	CAP CER CHIP 50V COG J 47PF	2	C139, C258
180	KCC-471FJCOGEYG	CAP CER CHIP 50V CUG J 470PF	4	C228, C232, C38, C237
181	KCC-475BRXK7RF	CAP CER CHIP 10V X7R K 4.7UF 25479-49 GRM40X7R475K010BX	1	C200
182	KCC-509FBCOGEYG	CAP CER CHIP 50V COG B 5PF	1	C210
183	KCC-682EKBNG	CAP CER CHIP 25V X7R +/-10% 6.8nF EYANG	1	C155
184	KCD-IN4148WS	DIODE CHIP FAST SWITCH SOD323 60806-01 1N4148WS/BAV16WS	1	D5
185	KCR-TR473SLB	NTC THERMISTOR SDNT1608 47K B=4150	1	RT1
186	KCR-000A	RES. CHIP 1/10W 0 OHM	1	L9
187	KCR-000B	RES. CHIP 1/16W 0 OHM	1	L42
188	KCR-000G	RES. CHIP 1/16W 0 OHM	3	R97, R194, R180
189	KCR-102G	RES. CHIP 1/16W 1K	5	R43, R156, R229, R151, R127
190	KCR-103G	RES. CHIP 1/16W 10K	6	R73, R124, R157, R77, R79, R120
191	KCR-104G	RES. CHIP 1/16W 100K	1	R74
192	KCR-105G	RES. CHIP 1/16W 1M	2	R107, R235
193	KCR-108F	RES. CHIP 1/2W 5% 0.1R 2010	1	R210
194	KCR-123G	RES CHIP 1/16W 5% 12K 0402	2	R171, R117
195	KCR-153G	RES. CHIP 1/16W 15K	1	R215
196	KCR-183G	RES CHIP 1/16W 5% 18K 0402	1	R126
197	KCR-202G	RES CHIP 1/16W 5% 2K OHM 0402	1	R121
198	KCR-222G	RES. CHIP 1/16W 2.2K 5% 0402	1	R95
199	KCR-223G	RES. CHIP 1/16W 22K	2	R161, R186
200	KCR-224G	RES. CHIP 1/16W 220K	1	R159
201	KCR-272G	RES. CHIP 1/16W 2.7K	1	R44
202	KCR-273G	RES CHIP 1/16W 5% 27K 0402	1	R208
203	KCR-274G-A	RES CHIP 1/16W 270K 1% 0402	2	R181, R260
204	KCR-302G	RES. CHIP 1/16W 3K	3	R99, R222, R94
205	KCR-332G	RES. CHIP 1/16W 3.3K 0402	1	R35
206	KCR-333G	RES. CHIP 1/16W 33K	4	R53, R110, R113, R125
207	KCR-394G	RES CHIP 1/16W 5% 390K 0402	1	R75
208	KCR-471G	RES. CHIP 1/16W 470	1	R33
209	KCR-472G	RES. CHIP 1/16W 4.7K 0402	1	R38
210	KCR-473G	RES. CHIP 1/16W 47K	1	R115
211	KCR-474G	RES. CHIP 1/16W 470K 0402	1	R147
212	KCR-503TMC3KB	CHIP VR NOBLE TMC3KB50K 1R/D	1	VR4
213	KCR-513G	RES. CHIP 1/16W 51K 5% 0402	1	R102
214	KCR-562G	RES. CHIP 1/16W 5.6K 0402	2	R122, R132
215	KCR-683G	RES CHIP 1/16W 5% 68K 0402	2	R39, R71
216	KCR-683G-A	RES. CHIP 1/16W 1% 68K OHM CR10-6802-FK	2	R109, R214
217	KCR-822G	RES. CHIP 1/16W 8.2K 0402	2	R142, R96
218	KCT-BC847BW	TR. CHIP NPN BC847BW-G0021 SOT-323	2	Q18, Q23
219	KCT-2SC5343UF	TR. CHIP NPN 2SC5343UF SOT-323F	0	Q18, Q23
220	KCT-2SC4177-T1	TR. CHIP NPN 2SC4177-T1 L6	0	Q18, Q23
221	KCT-2SC4116GR	TR CHIP NPN 2SC4116GR	0	Q18, Q23
222	KCT-BC857BW	TR. CHIP PNP BC857BW-G0021 SOT-323	2	Q17, Q21
223	KCT-2SA1980UF	TR. CHIP PNP 2SA1980UF SOT-323F	0	Q17, Q21
224	KCT-2SA1586GR	TR CHIP PNP 2SA1586GR 4862830A05	0	Q17, Q21

225	KCT-2SA1611-T1	TR. CHIP PNP 2SA1611-T1 M6	0	Q17, Q21
226	KCT-DTA114EE	TR. CHIP PNP DTA114EE ROHM	1	Q20
227	KCT-DTC114EE	TR. CHIP NPN DTC114EE ROHM	1	Q22
228	KCT-2N7002	TR FET N-CHANNEL MOS 2N7002	1	Q13
229	KCT-2SK880-Y	TR. CHIP FET 2SK880-Y TOSHIBA	1	Q15
230	KEFB-044	FERRITE BEAD 60 OHM BLM21PG600SN1D	2	L46, L50
231	KEIC-AZ324M	IC AZ324 SOIC-14 QUAD OP AMP	1	U1
232	KEIC-AZ358	IC AZ358 LOW POWER DUAL AMP	1	U22
233	KEIC-LM324D-A	IC LM324D 14SOP ON	0	U1
234	KEJ-517H	FEMALE HEADER HS08300026 HUMAN	1	J2

## Key Board Bottom Side SMT Parts

Item	P/N	Description	Qty	Designated Reference No.
235	KCC-T106DAM	CAP. TANT. CHIP 10V 10UF 3216	4	C4, C6, C9, C28
236	KCC-T107DM7343	CAP TANT CHIP 10V 100UF 73X43X28 M	1	C207
237	KCC-100FDCOGEYG	CAP CER CHIP 50V COG D 10PF	2	C273, C274
238	KCC-101FJCOGEYG	CAP CER CHIP 50V COG J% 100PF 0402 C0402C0G101J500NT EYA	4	C205, C352, C1, C149
239	KCC-102FJCOGEYB	CAP CER CHIP 50V 5% COG 0. 001UF EYANG	1	C31
240	KCC-102FKBGNG	CAP CER CHIP 50V X7R +/-10% 0. 001u EYANG	4	C203, C252, C173, C2
241	KCC-103BKBGNG	CAP CER CHIP 10V X7R +/-10% 0. 01uF EYANG	1	C259
242	KCC-104DKBMUB	CAP. CHIP 16V +/-10% X7R 0.1UF0603 GRM188R71C104KA01D	2	C18, C341
243	KCC-104DZFEYG	CAP CER CHIP 16V Y5V Z 0. 1uF EYANG	13	C33, C183, C353, C229, C226, C213, C212, C29, C278, C327
244	KCC-105CZY5VEYG	CAP. CER. CHIP 6. 3V Y5V Z 1UF 0402	1	C202
245	KCC-105DKBEYB	CAP CER 1U 10% 16V X7R 0603	8	C32, C166, C351, C328, C264, C280, C211, C279
246	KCC-105DZFMUE	CAP. CHIP 16V Y5V Z% 1UF 0603 GRM188F51C105ZA01D	2	C251, C39
247	KCC-106BRZFM-1	CAP. CHIP 10V Y5V Z% 10UF 1206GRM31MF51A106ZA01L	8	C30, C201, C206, C19, C12, C263, C10, C42
248	KCC-123DKBEYG	CAP CER CHIP 16V X7R +/-10% 0. 012u EYANG	1	C88
249	KCC-221FJCOGNG	CAP CER CHIP 50V COG +/-5% 220PF EYANG	2	C40, C38
250	KCC-223DKBEYG	CAP CER CHIP 16V B K 22NF	3	C360, C359, C7
251	KCC-223FKBEYB	CAP CER CHIP 50V XTR +/-10% 0. 022u EYANG	1	C13
252	KCC-224BKBMUB	CAP CHIP 10V X7R +/-10% 0. 22UF 0603 GRM188R71A224KA01D	1	C25
253	KCC-224BKX5RMUG	CAP CHIP 10V +/-10% X5R 0. 22UF 0402 GRM155R61A224KE19D	1	C184
254	KCC-330FJCOGEYG	CAP CER CHIP 50V COG J 33PF	1	C356
255	KCC-391FKBGNG	CAP CER CHIP 50V X7R +/-10% 390PF EYANG	1	C94
256	KCC-470FJCOGEYG	CAP CER CHIP 50V COG J 47PF	1	C27
257	KCC-470FJNPMUG	CAP CHIP 47PF+/-5% COG 50V 0402 GRM1555C1H470JZ01D	1	C199
258	KCC-470FRJNP0B	CAP CHIP 50V COG +/-5% 47PF 0603 GRM1885C1H470JAO1D	2	C15, C21
259	KCC-471FJCOGEYB	CAP CER CHIP 50V COG +/-5% 470PF EYANG	2	C11, C363
260	KCC-471FJCOGEYG	CAP CER CHIP 50V CUG J 470PF	2	C8, C355
261	KCC-473DKBEYG	CAP. CER. CHIP 16V X7R K 0. 047UF EYANG	3	C82, C204, R49
262	KCC-474DRZFB	CAP. CHIP 16V Y5V Z% 0. 47UF 0603 GRM188F51C474ZA01D	1	C108
263	KCC-475BRXK7RF	CAP CER CHIP 10V X7R K 4. 7UF 25479-49 GRM40X7R475K010BX	1	C20
264	KCC-563BKBMUG	CAP. CER. CHIP 10V X7R K 0. 056UF	2	C98, C107
265	KCD-DA204U	DIODE ARRAY CHIP DA204U	1	D16
266	KCD-L41R-EC	LED CHIP RED EC02-0603QRC/F	1	LED13
267	KCR-000G	RES. CHIP 1/16W 0 OHM	2	R4, C101

268	KCR-100G	RES. CHIP 1/16W 10 OHM	3	R128, R46, R51
269	KCR-101G	RES. CHIP 1/16W 100 OHM	7	R38, R157, R8, R242, R29, R78, R134
270	KCR-102G	RES. CHIP 1/16W 1K	3	R13, R113, R77
271	KCR-103G	RES. CHIP 1/16W 10K	14	R74, R70, R97, R40, R41, R42, R36, R203, R212, R34, R11, R32 R145, R23
272	KCR-105G	RES. CHIP 1/16W 1M	1	R66
273	KCR-123G	RES CHIP 1/16W 5% 12K 0402	2	R245, R174
274	KCR-124G-A	RES CHIP 1/16W 1% 120K 0402	1	R33
275	KCR-151G	RES. CHIP 1/16W 150 OHM	1	R127
276	KCR-153G	RES. CHIP 1/16W 15K	2	R195, R246
277	KCR-154G	RES. CHIP 1/16W 5% 150K 0402	1	R72
278	KCR-155G	RES CHIP 1/16W 5% 1.5M 0402	1	R129
279	KCR-182G	RES CHIP 1/16W 5% 1.8K 0402	1	R37
280	KCR-201G	RES CHIP 1/16W 5% 2000HM 0402	1	R59
281	KCR-203G	RES CHIP 1/16W 5% 20K 0402	1	R39
282	KCR-204G	RES. CHIP 1/16W 200K	1	R185
283	KCR-221G	RES. CHIP 1/16W 220	1	R64
284	KCR-222G	RES. CHIP 1/16W 2.2K 5% 0402	1	R220
285	KCR-223G	RES. CHIP 1/16W 22K	4	R35, R156, R176, C37
286	KCR-224G	RES. CHIP 1/16W 220K	2	R69, R75
287	KCR-273G	RES CHIP 1/16W 5% 27K 0402	2	R31, R17
288	KCR-274G	RES. CHIP 1/16W 270K 0402	1	R155
289	KCR-302G	RES. CHIP 1/16W 3K	1	R230
290	KCR-304G	RES CHIP 1/16W 5% 300K 0402	1	R238
291	KCR-331G	RES. CHIP 1/16W 330 OHM 0402	2	R25, R48
292	KCR-333G	RES. CHIP 1/16W 33K	4	R3, R71, R79, R241
293	KCR-392G	RES. CHIP 1/16W 3.9K	1	R47
294	KCR-471G	RES. CHIP 1/16W 470	1	R50
295	KCR-472G	RES. CHIP 1/16W 4.7K 0402	5	R16, R53, R55, R26, R24
296	KCR-473G	RES. CHIP 1/16W 47K	15	R10, R5, R58, R253, R254, R255, R256, R257, R28, R30, R12 R236, R19, R228, R237
297	KCR-474G	RES. CHIP 1/16W 470K 0402	3	R14, R76, R96
298	KCR-510G-JN4R0	RES CHIP 1/16W 510HM 5% 0402	2	R6, R9
299	KCR-512G	RES CHIP 1/16W 5% 5.1K 0402	2	R22, R104
300	KCR-563G	RES. CHIP 1/16W 56K	2	R2, R248
301	KCR-683G-A	RES. CHIP 1/16W 1% 68K OHM CR10-6802-FK	1	R45
302	KCR-754G	RES CHIP 1/16W 5% 750K 0402	1	R73
303	KCR-822G	RES. CHIP 1/16W 8.2K 0402	1	R54
304	KCR-824G	RES CHIP 1/16W 5% 820K 0402	2	R231, R1
305	KCSW-009-A	TACT SWITCH TS-1101VS-BL CHI FUNG	4	S1, S2, S3, S4
306	KCT-BC847BW	TR. CHIP NPN BC847BW-G0021 SOT-323	7	Q1, Q2, Q5, Q7, Q41, Q25, Q3
307	KCT-2SC5343UF	TR. CHIP NPN 2SC5343UF SOT-323F	0	Q1, Q2, Q5, Q7, Q41, Q25, Q3
308	KCT-2SC4177-T1	TR. CHIP NPN 2SC4177-T1 L6	0	Q1, Q2, Q5, Q7, Q41, Q25, Q3
309	KCT-2SC4116GR	TR CHIP NPN 2SC4116GR	0	Q1, Q2, Q5, Q7, Q41, Q25, Q3
310	KCT-BC857BW	TR. CHIP PNP BC857BW-G0021 SOT-323	1	Q17
311	KCT-2SA1980UF	TR. CHIP PNP 2SA1980UF SOT-323F	0	Q17
312	KCT-2SA1586GR	TR CHIP PNP 2SA1586GR	0	Q17

313	KCT-2SA1611-T1	TR. CHIP PNP 2SA1611-T1 M6	0	Q17
314	KCT-DTC144EE	TR.CHIP NPN DTC144EE ROHM	1	Q8
315	KCT-SSM3K01T	TR.CHIP SWITCHING MOSFET SSM3K01T SOT23	1	Q4
316	KCT-2SA1362GR	TR. CHIP PNP 2SA1362GR	1	Q18
317	KCX-C004	CRYSTAL RESONATOR 16MHZ FTX16M20SM	1	X1
318	KEIC-AZ324M	IC AZ324 SOIC-14 QUAD OP AMP	1	U3
319	KEIC-FM24C08	EEPROM IC FM24C08 (2.5-5.5V) SOP 8PINS FUDAN	1	U14
320	KEIC-LM324D-A	IC LM324D 14SOP ON	0	U3
321	KEIC-TAR5S35	IC TAR5S35 3.5V REGULATOR TOSHIBA	1	U15
322	KEIC-TA7368FG	IC TA7368FG LOW POWER AUDIO AMP TOSHIBA	1	U8
323	KEIC-401	DIE MCU JT5BN8-XXXX FOR PROF RADIO P1808 TOSHIBA	1	U5
324	KEJ-515	DIA 3.5MM STEREO JACK5 ST-3009-01	1	J4
325	KEJ-516	DIA 2.5MM STEREO JACK ST-2574	1	J3
326	KEJ-517	HEADER HP08400026 HUMAN	1	J2

### Key Board Top Side SMT Parts

Item	P/N	Description	Qty	Designated Reference No.
327	KCC-104DKMBUB	CAP. CHIP 16V +/-10% X7R 0.1uF0603 GRM188R71C104KA01D	1	C14
328	KCC-104DZFEYG	CAP CER CHIP 16V Y5V Z 0.1uF EYANG	2	C17, C253
329	KCC-105DKBEYB	CAP CER 1U 10% 16V X7R 0603	2	C16, C41
330	KCC-333BKBEYG	CAP CER CHIP 10V X7R K 0.033UF EYANG	1	C24
331	KCD-L41A-EC	LED CHIP AMBER EC02-0603UYOC/F	1	LED2
332	KCD-L42B	LED CHIP BLUE LH-1204FP1-B2-A10-03	2	LED1, LED6
333	KCR-102G	RES. CHIP 1/16W 1K	1	R52
334	KCR-103G	RES. CHIP 1/16W 10K	2	R20, R27
335	KCR-223G	RES. CHIP 1/16W 22K	1	R21
336	KCR-302G	RES. CHIP 1/16W 3K	1	R56
337	KCR-472G	RES. CHIP 1/16W 4.7K 0402	1	R15
338	KCT-BC847BW	TR.CHIP NPN BC847BW-G0021 SOT-323	1	Q6
339	KCT-2SC5343UF	TR.CHIP NPN 2SC5343UF SOT-323F	0	Q6
340	KCT-2SC4177-T1	TR. CHIP NPN 2SC4177-T1 L6	0	Q6
341	KCT-2SC4116GR	TR CHIP NPN 2SC4116GR	0	Q6
342	KEM-M28206B	SPEAKER CONNECTOR PLATE (SUS 301)	2	

### Charger Board Bottom Side SMT Parts

Item	P/N	Description	Qty	Designated Reference No.
343	KCC-102FKBMUM	CAP. CHIP 50V X7R +/-10% 0.001U 0805 GRM216R71H102KA01D	2	C6, C18
344	KCC-104DKBEYB	Cap 0.1uF 16V 10% X7R 0603 Eyang C0603X7R104K160NT	2	C3, C2
345	KCC-105DKBMUM	CAP. CHIP 16V +/-10% X7R 1UF 0805 GRM21BR71C105KA01L	2	C8, C1
346	KCC-225DKMBUB	CAP CER CHIP 16V 10% 2.2uF 0603 X5R GRM188R71C225KA01D	1	C4
347	KCC-475EKMUC	CAP CER CHIP 25V 10% 4.7uF 1206 GRM319R71E475KA01D	2	C5, C7
348	KCD-LL4148-C	DIODE CHIP LL4148-G0021 SEM	3	BD2, D4, D5
349	KCD-MBRA140TR	DIODE CHIP MBRA140TR 1A 50V D0214BA	0	D3
350	KCD-SS14ST	DIODE CHIP SS14ST SEMTECH	1	D3
351	KCR-000A	RES. CHIP 1/10W 0 OHM	1	R31
352	KCR-000B	RES. CHIP 1/16W 0 OHM	1	R24
353	KCR-100B	RES. CHIP 1/16W 10	1	R9



354	KCR-101A	RES. CHIP 1/10W 100	1	R16
355	KCR-102A	RES. CHIP 1/10W 1K	1	R11
356	KCR-102D	RES CHIP 1/4W 5% 1K 1206	1	R29
357	KCR-104A	RES. CHIP 1/10W 100K	1	R25
358	KCR-104B-A	RES. CHIP 1/16W 100K (1%)	1	R4
359	KCR-203B-A	RES. CHIP 1/16W 20K (1%)	2	R12, R19
360	KCR-221B	RES. CHIP 1/16W 220	1	R3
361	KCR-331A	RES. CHIP 1/10W 330	2	R1, R13
362	KCR-332A	RES. CHIP 1/10W 3. 3K	1	R23
363	KCR-332B	RES. CHIP 1/16W 3. 3K	1	R17
364	KCR-471B	RES. CHIP 1/16W 470	1	R22
365	KCR-472B	RES. CHIP 1/16W 4. 7K	2	R2, R18
366	KCR-473A	RES. CHIP 1/10W 47K	2	R21, R14
367	KCR-681D	RES CHIP 1/4W 680	2	R7, R10
368	KCR-683B-A	RES. CHIP 1/16W 68K (1%)	1	R5
369	KCR-685B	RES CHIP 1/16W 6. 8M	1	R8
370	KCT-MMBT3904-1	TR. CHIP NPN MMBT3904-G0021 SOT-23 SEMTECH	1	Q2
371	KE1C-AZ431LAN	IC AZ431LAN SOT-23-3	1	IC1
372	KE1C-NEC9202	IC POWER SUPERVISE NEC9202	1	IC2
373	KE1C-TL431ACD	ADJUSTABLE PRECISION SHUNT REGULATORS	0	IC1
374	KEPC-1056-A	PCB 79X67X1. 6MM SS 94V-0	1	

### Charger Board Top Side Insert-Assembly Parts

Item	P/N	Description	Qty	Designated Reference No.
375	KEC-E227FRMKS	CAP. ELECT. 25V M 220uF	2	C9, C11
376	KED-L117GR	DIODE LED 209EGW GREEN/RED	1	LED
377	KEJ-164-2	JACK DC POWER DC-470 PBT/DC-114-X03-00-CN	1	DC1
378	KEJW-XXXBJW-23	WIRE BARE TINNED	0. 047	J1=10MM, J2=10MM, J3=20MM, J4=7MM
379	KEL-330WFAKA	COIL FIXED 33uH K LH0608#330K-U0-B	1	L1
380	KER-MX508DBB	RES. METAL-OXIDE 1/2W 5% 0. 5 OHM RSN1/2WT5508J	1	R20
381	KET-HT772	TRANSISTOR PNP HT772 TO-126	1	Q4
382	KET-ST2N3904	TRANSISTOR ST2N3904 TO-92	2	Q1, Q3