NO.	Description	Ref.No
1	PCB, PT4200V-060912	
2	IC, PST9140NR	IC11
3	KIA6278F, AUDIO, AMP	IC8
4	IC, AT24C08AN-SU27	IC9
5	PLL IC, MB15E03SL, PLL, 16-PIN, SSOP	IC1
6	IC, HT7130-1, SOT-89	IC14
7	IC, HT7150-1	IC12
8	NJM2902V, OP-AMP	IC4, IC6, IC7
9	NJM2904V, OP-AMP	IC3
10	MCU, M38039FFHHP, LQFP64	IC10
11	IC, MC3361BP	IC5
12	**DIODE**, MA77, 0805	D1
13	**DIODE**,, 0805, MA360(PANASONIC)	D12
14	**DIODE**,, 1SS372(TOSHIBA)	D13
15	**DIODE**,, 1SV325	D8, D9, D10, D11, D21, D23, D24, D30, D31, D32, D33, D34
16	**DIODE**,, 0603, MA2S111(PANASONIC)	D15, D16, D25
17	**DIODE**,, DAN222, (ROHM)	D308
18	**DIODE**,, HSC277(HITACHI)	D3, D4, D6, D7
19	**DIODE**,, HZU5ALL(HITACHI)	D14
20	**DIODE**,, IN4148	D17, D18
21	**LED**, 0603, GREEN, CL-190YG-CD	D20, D29
22	**LED**, 0603, RED, 19-21SURC/S530-A2/TR8	D28
23	DIGITAL TRANSISTOR, DTA144EE(ROHM)	Q17, Q34, Q41
24	DIGITAL TRANSISTOR, DTC144EE(ROHM)	Q22, Q23, Q26, Q27, Q33, Q37
25	DIGITAL TRANSISTOR, DTC144EUA(ROHM)	Q18
26	DIGITAL TRANSISTOR, KRX102U, with, bias, resistor	IC2
27	DIGITAL TRANSISTOR, FMMT717TA	Q8, Q30
28	DIGITAL TRANSISTOR, 2SC1623	Q10
29	DIGITAL TRANSISTOR, 2SC3356	Q3
30	DIGITAL TRANSISTOR, 2SC4116-GR	Q39
31	DIGITAL TRANSISTOR, 2SC4617(S)(ROHM)	Q6, Q9
32	DIGITAL TRANSISTOR, 2SC4738(GR), AF, AMPLIFIER(TOSHIBA)	Q7
33	DIGITAL TRANSISTOR, 2SC4919, MUTING, CIRCUIT(SANYO)	Q24
34	DIGITAL TRANSISTOR, 2SC5108Y(TOSHIBA)	Q4, Q5
35	DIGITAL TRANSISTOR, KTA1298(Y)	Q29, Q31, Q32
36	DIGITAL TRANSISTOR, KTC4082, (KEC)	Q21
37	DIGITAL TRANSISTOR, 2SJ243	Q16
38	DIGITAL TRANSISTOR, 2SK508NV(K52)	Q14, Q15
39	DIGITAL TRANSISTOR, 2SK880	Q40
40	DIGITAL TRANSISTOR, 3SK318	Q19, Q20
41	DIGITAL TRANSISTOR, RD01MUS1	Q12
42	DIGITAL TRANSISTOR, RD07MVS1	Q11
43	DIGITAL TRANSISTOR, 2SK1588(NEC)	Q38
44	DIGITAL TRANSISTOR, 2SK1824	Q2, Q13, Q25, Q35, Q36
45	SWITCH, SKHLLBA010	K1
46	SWITCH, 4.5*4.5*4.8	K2, K4
47	SWITCH, ED0873-16-16HC-F18(9)	SW2
48	SWITCH, SKRTLBE010	K3
49	JTBM455C24	L57
50	LTM450HT, 450kHz±3kHz	CF1
51	49.95MHz±7.5KHz, U-5*2	XF1, XF2

NO.	Description	**Ref.No**
52	CHIP R, 0402, 0R±5%	C67, R271, C166, C247, C276, C277, R4, R10, R24, R30, R99, R154, R174, R202, R217, R244, R255, R260, R261
53	CHIP R, 0402, 10R±5%	R98, R127, R200, R238
54	CHIP R, 0402, 100R±5%	R12, R89, R94, R128, R237
55	CHIP R, 0402, 1K±5%	R29, R39, R41, R42, R48, R49, R50, R111, R129, R130, R131, R157, R184, R199, R273, R298
56	CHIP R, 0402, 10K±5%	R46, R102, R109, R120, R121, R122, R123, R126, R133, R140, R194, R205, R206, R209, R228, R254, R264, R266, R268, R295, R301
57	CHIP R, 0402, 100K±5%	R105, R108, R113, R114, R115, R116
58	CHIP R, 0402, 1M±5%	R160, R162
59	CHIP R, 0402, 120R±5%	R141
60	CHIP R, 0402, 1.2K±5%	R188
61	CHIP R, 0402, 12K±5%	R90, R208
62	CHIP R, 0402, 120K±5%	R6, R7, R8, R9
63	CHIP R, 0402, 15K±5%	C187, C188, C189, C265, R52, R64, R76, R142, R192
64	CHIP R, 0402, 150K±5%	R201
65	CHIP R, 0402, 18R±5%	R23
66	CHIP R, 0402, 1.8K±5%	R224
67	CHIP R, 0402, 18K±5%	R218, R219
68	CHIP R, 0402, 180K±5%	R67
69	CHIP R, 0402, 20K±5%	R27, R196, R207, R225, R226, R227, R240, R263, R265, R267, R269
70	CHIP R, 0402, 220R±5%	R214, R215, R216
71	CHIP R, 0402, 2.2K±5%	R294
72	CHIP R, 0402, 22K±5%	R210, R211
73	CHIP R, 0402, 220K±5%	R86, R87, R164
74	CHIP R, 0402, 2.7K±5%	R223
75	CHIP R, 0402, 27K±5%	R171, R172, R257
76	CHIP R, 0402, 270K±5%	R231
77	CHIP R, 0402, 330R±5%	R305
78	CHIP R, 0402, 3.3K±5%	R59, R60
79	CHIP R, 0402, 33K±5%	R258, R290
80	CHIP R, 0402, 330K±5%	R82
81	CHIP R, 0402, 3.9K±5%	R221, R222
82	CHIP R, 0402, 39K±5%	R53, R68, R149, R153
83	CHIP R, 0402, 390K±5%	R165
84	CHIP R, 0402, 43K±5%	R178
85	CHIP R, 0402, 47R±5%	R31, R54
86	CHIP R, 0402, 470R±5%	R2, R3
87	CHIP R, 0402, 4.7K±5%	R61, R92, R118, R125, R155, R156, R204, R248
88	CHIP R, 0402, 47K±5%	R11, R13, R17, R18, R19, R20, R21, R22, R75, R242, R292, R302
89	CHIP R, 0402, 470K±5%	R14, R166, R232, R293
90	CHIP R, 0402, 560R±5%	R37, R40, R299
91	CHIP R, 0402, 5.6K±5%	R63, R65, R132, R195
92	CHIP R, 0402, 56K±5%	R173, R175, R177, R291
93	CHIP R, 0402, 560K±5%	R163
94	CHIP R, 0402, 6.8K±5%	R212, R220
95	CHIP R, 0402, 68K±5%	R78, R245
96	CHIP R, 0402, 820R±5%	R33
97	CHIP R, 0402, 8.2K±5%	R229, R230

NO.	Description	Ref.No
98	CHIP R, 0402, 82K±5%	R51
99	CHIP R, 0402, 91K±5%	R77, R176, R213
100	CHIP R, 0603, 0R±5%	C1, C34, C86, C95, C124, C266, C273, L15, L18, L42, L49, L54, L62, R28, R43, R81, R103, R241
101	CHIP R, 0603, 10R±5%	R96, R97, R101
102	CHIP R, 0603, 100R±5%	R74, R88, R180
103	CHIP R, 0603, 1K±5%	R45, R47, R150, R234, R256
104	CHIP R, 0603, 10K±5%	R62, R124, R136, R137, R138, R139, R203
105	CHIP R, 0603, 100K±5%	R79, R80, R84, R104, R107, R112, R158, R190, R197, R235, R243, R249, R297
106	CHIP R, 0603, 1.2K±5%	R69, R181
107	CHIP R, 0603, 120K±5%	R5
108	CHIP R, 0603, 15R±5%	R73
109	CHIP R, 0603, 150R±5%	R66, R179
110	CHIP R, 0603, 1.5K±5%	R36
111	CHIP R, 0603, 150K±1%	R143, R144, R145, R146, R147, R170
112	CHIP R, 0603, 180K±5%	R247
113	CHIP R, 0603, 22R±5%	R93
114	CHIP R, 0603, 220R±5%	R71, R189
115	CHIP R, 0603, 2.2K±5%	R57, R185, R186, R187
116	CHIP R, 0603, 220K±5%	R233
117	CHIP R, 0603, 270R±5%	R34, R70, R91
118	CHIP R, 0603, 270K±5%	R85
119	CHIP R, 0603, 330R±5%	R35, R38, R306
120	CHIP R, 0603, 3.3K±5%	R55, R58
121	CHIP R, 0603, 39K±5%	R193
122	CHIP R, 0603, 47R±5%	L34, R15, R32, R95, R182
123	CHIP R, 0603, 470R±5%	R25
124	CHIP R, 0603, 4.7K±5%	R56, R151, R152, R159, R183
125	CHIP R, 0603, 5.6K±5%	R44, R191
126	CHIP R, 0603, 56K±5%	R16, R239
127	CHIP R, 0603, 560K±5%	R148
128	CHIP R, 0805, 0R±5%	L63
129	CHIP R, 1206, 0.47R±5%	R167, R168, R169
130	CHIP R, MVR22HXBRN473, 47K±25%, B Linear	VR2
131	CHIP R, MVR22HXBRN683, 68K±25%, B Linear	VR1
132	SWITCH, RO8710NS-FE15C07-A103-00I	SW1
133	CHIP C, 0402, 10P±0.5P, 50V, COG	C257
134	CHIP C, 0402, 100P±5%, 50V, COG	C171, C196
135	CHIP C, 0402, 1000P±10%, 50V, X7R	C4, C6, C9, C10, C13, C17, C20, C21, C22, C29, C48, C51, C52, C53, C54, C59, C60, C61, C71, C75, C83, C84, C97, C99, C103, C105, C106, C110, C111, C118, C152, C248, C263, C269, C270, C274, C275, C290, C291, C305, C308, C310, R270
136	CHIP C, 0402, 0.01uF±10%, 50V, X7R	C50, C79, C89, C115, C149, C155, C157, C158, C159, C160, C161, C162, C239, C249, C279
137	CHIP C, 0402, 0.1uF±10%, 16V, X7R	C85, C101, C167, C168, C173, C176, C177, C178, C271, C286, C307
138	CHIP C, 0402, 1uF±10%, 50V, X7R	C80, C170, C192, C235, C252, C303
139	CHIP C, 0402, 1500P±10%, 50V, X7R	C113, C289
140	CHIP C, 0402, 0.018uF±10%, 25V, X7R	C156
141	CHIP C, 0402, 2200P±10%, 50V, X7R	C215
142	CHIP C, 0402, 0.022uF±10%, 50V, X7R	C179, C185, C242, C243, C245

NO. Description	Ref.No
143 CHIP C, 0402, 33P±5%, 50V, COG	C282, C288
144 CHIP C, 0402, 0.033uF±10%, 16V, X7R	C224, C244
145 CHIP C, 0402, 39P±5%, 50V, COG	C11, C119
146 CHIP C, 0402, 3900P±10%, 50V, X7R	C82, C222, C238, C284
147 CHIP C, 0402, 0.039uF±10%, 50V, X7R	C223
148 CHIP C, 0402, 470P±10%, 50V, X7R	C8, R161, C57, C58, C125, C163, C258
149 CHIP C, 0402, 4700P±10%, 25V, COG	C285
150 CHIP C, 0402, 0.047uF±10%, 16V, X7R	C212, C213, C253, C283
151 CHIP C, 0402, 0.47uF±10%, 16V, X7R	C169, C302
152 CHIP C, 0402, 56P±5%, 50V, COG	C184
153 CHIP C, 0402, 5600P±10%, 16V, X7R	C251
154 CHIP C, 0402, 680P±10%, 16V, X7R	C260
155 CHIP C, 0402, 0.068uF±10%, 16V, X7R	C259
156 CHIP C, 0603, 10P±0.5P, 50V, COG	C62, C63, C87, C94, C134, C220
157 CHIP C, 0603, 1000P±10%, 50V, X7R	C5, C7, C12, C14, C15, C16, C18, C19, C26, C27, C28, C31, C36, C38, C39, C40, C41, C42, C43, C44, C45, C49, C56, C96, C100, C102, C107, C108, C109, C112, C114, C150, C151, C154, C172, C186, C230, C264, C268, C272, C278, C287
158 CHIP C, 0603, 0.01uF±10%, 50V, X7R	C153, C190, C280
159 CHIP C, 0603, 0.1uF±10%, 50V, X7R	C74, C165, C174, C175, C231, C232
160 CHIP C, 0603, 1uF±10%, 50V, X7R	C25, C30, C233
161 CHIP C, 0603, 11P±5%, 50V, COG	C37
162 CHIP C, 0603, 12P±5%, 50V, COG	C206
163 CHIP C, 0603, 15P±5%, 50V, COG	C72, C73, C129, C143, C313, C314
164 CHIP C, 0603, 1500P±10%, 50V, X7R	C33, C35
165 CHIP C, 0603, 16P±5%, 50V, COG	C3
166 CHIP C, 0603, 18P±5%, 50V, COG	C69, C117
167 CHIP C, 0603, 1800P±10%, 50V, X7R	C226
168 CHIP C, 0603, 1P±0.25P, 50V, COG	C148, C236
169 CHIP C, 0603, 22P±5%, 50V, COG	C65, C76, C77, C116, C142, C255, C256
170 CHIP C, 0603, 220P±5%, 50V, COG	C309
171 CHIP C, 0603, 0.22uF+80%--20%, 16V, Y5V	C193
172 CHIP C, 0603, 27P±5%, 50V, COG	C139, C194, C195
173 CHIP C, 0603, 2P±0.25P, 50V, COG	C136, C312
174 CHIP C, 0603, 33P±5%, 50V, COG	C32, C47, C126, C127, C141, C316
175 CHIP C, 0603, 0.033uF±10%, 16V, X7R	C221
176 CHIP C, 0603, 3P±0.25P, 50V, COG	C90, C131
177 CHIP C, 0603, 470P±10%, 50V, X7R	C24, C55
178 CHIP C, 0603, 4700P±10%, 50V, X7R	C214
179 CHIP C, 0603, 0.047uF±10%, 16V, X7R	C211
180 CHIP C, 0603, 4P±0.25P, 50V, COG	C2, C216, C217, C218
181 CHIP C, 0603, 4.5P/4.7P±0.25P, 50V, COG	C137, C219, C228
182 CHIP C, 0603, 56P±5%, 50V, COG	C144
183 CHIP C, 0603, 5P±0.25P, 50V, COG	C122, C145
184 CHIP C, 0603, 5.6P±0.25P, 50V, COG	C132
185 CHIP C, 0603, 68P±5%, 50V, COG	C93, C133
186 CHIP C, 0603, 6P±0.5P, 50V, COG	C229
187 CHIP C, 0603, 7P±0.5P, 50V, COG	C88, C120
188 CHIP C, 0603, 8P±0.5P, 50V, COG	C135, C138
189 CHIP C, 0603, 9P±0.5P, 50V, COG	C315
190 CHIP C, 0603, 0.5P±0.1P, 50V, COG	C147
191 CHIP C, 0603, 0.75P±0.25P, 50V, COG	C146
192 CHIP-TAN, SIZE P, 10uF±20%, 6.3V	C198, C207
193 CHIP-TAN, SIZE P, 2.2uF±20%, 10V	C140, C209, C246

NO.	Description	Ref.No
194	CHIP-TAN, SIZE P, 4.7uF±20%, 10V	C46, C201, C202, C240, C292, C311
195	CHIP C, 0805, 1uF+80%−−20%, 16V, Y5V	C267, C306
196	CHIP C, 0805, 2.2uF+80%−−20%, 10V, Y5V	C234
197	CHIP C, 0805, 0.47uF+80%−−20%, 16V, Y5V	C204, C205
198	CHIP-TAN, SIZE A, 1uF±20%, 16V	C199, C200, C225
199	CHIP-TAN, SIZE A, 10uF±20%, 10V	C197, C203, C210, C237
200	CHIP-TAN, SIZE A, 15uF±20%, 6.3V	C191, C208
201	CHIP-TAN, SIZE C, 100uF±20%, 10V	C254
202	**CHIP C**, TZV2Z100A110, 3~10p+100	C180, C181
203	SMALL FIXED INDUCTOR, C1608CB-22NJ, 22NH±5%, 0603	L51
204	SMALL FIXED INDUCTOR, C1608CB-33NJ, 33NH±5%, 0603	L30
205	SMALL FIXED INDUCTOR, C1608CB-39NJ, 39nH±5%, 0603	L65, L67
206	SMALL FIXED INDUCTOR, C1608CB-47NJ, 47NH±5%, 0603	L5, L8, L10, L13, L68
207	SMALL FIXED INDUCTOR, MLG1608BR10J, 100nH±5%, 0603	L31, L32, L33
208	SMALL FIXED INDUCTOR, MLF1608A1R0K, 1uH±5%, 0603	L21, L24
209	SMALL FIXED INDUCTOR, MLG1608B27NJ, 27nH±5%, 0603	L16, L23
210	SMALL FIXED INDUCTOR, MLF1608A3R3K, 3.3uH±5%, 0603	L27, L28, L29, L36, L50, L52
211	SMALL FIXED INDUCTOR, FSLM2520-100J, 10uH±5%, 1008	L45
212	SMALL FIXED INDUCTOR, FSLM2520-R47K, 470nH±10%, 1008	L55
213	SMALL FIXED INDUCTOR, FSLM2520-R82K, 820nH±10%, 1008	L56
214	SMALL FIXED INDUCTOR, LQN21AR22J, 220nH±5%, 0805	L26
215	AIR-CORE COIL, 0.4*1.5*3TL	L1, L12
216	AIR-CORE COIL, 0.4*1.5*4TL	L69
217	AIR-CORE COIL, 0.3*1.5*5TR	L3
218	AIR-CORE COIL, 0.3*1.5*6TR	L2, L14
219	AIR-CORE COIL, 0.3*1.5*7TR	L4
220	AIR-CORE COIL, 0.4*1.5*8TL	L25
221	EMI, FILTER, SMT, BLM11A221S, 0603	L19, L20, L40, L41, L44, L46, L47, L48, L60, L61, L66
222	EMI, FILTER, SMT, BLM21P300S, 0805	L37, L38, L39, L43, L58
223	**MIC**, B6027AP402-65	MIC1
224	13MHz±2.5PPm	X4
225	CSTCR7M30G53-R0, 7.3M	X2
226	49.5MHz±10PPM, UM-1	X3
227	SP/MIC, ST-212	J2
228	SP/MIC, EJ-2507-CCPA	J1
229	IC, W588A080	IC15