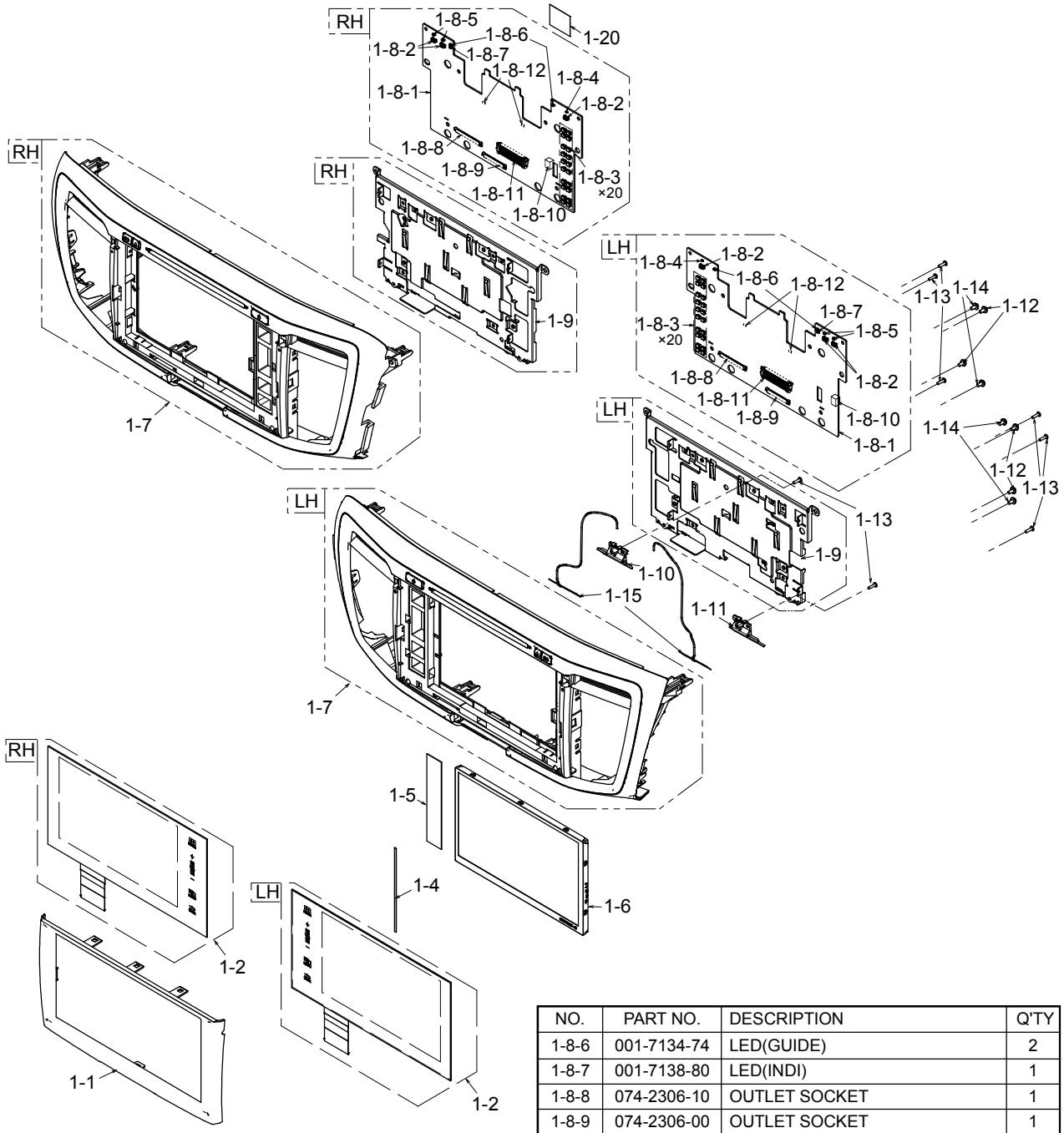
EXPLODED VIEW / PARTS LIST

Panel section

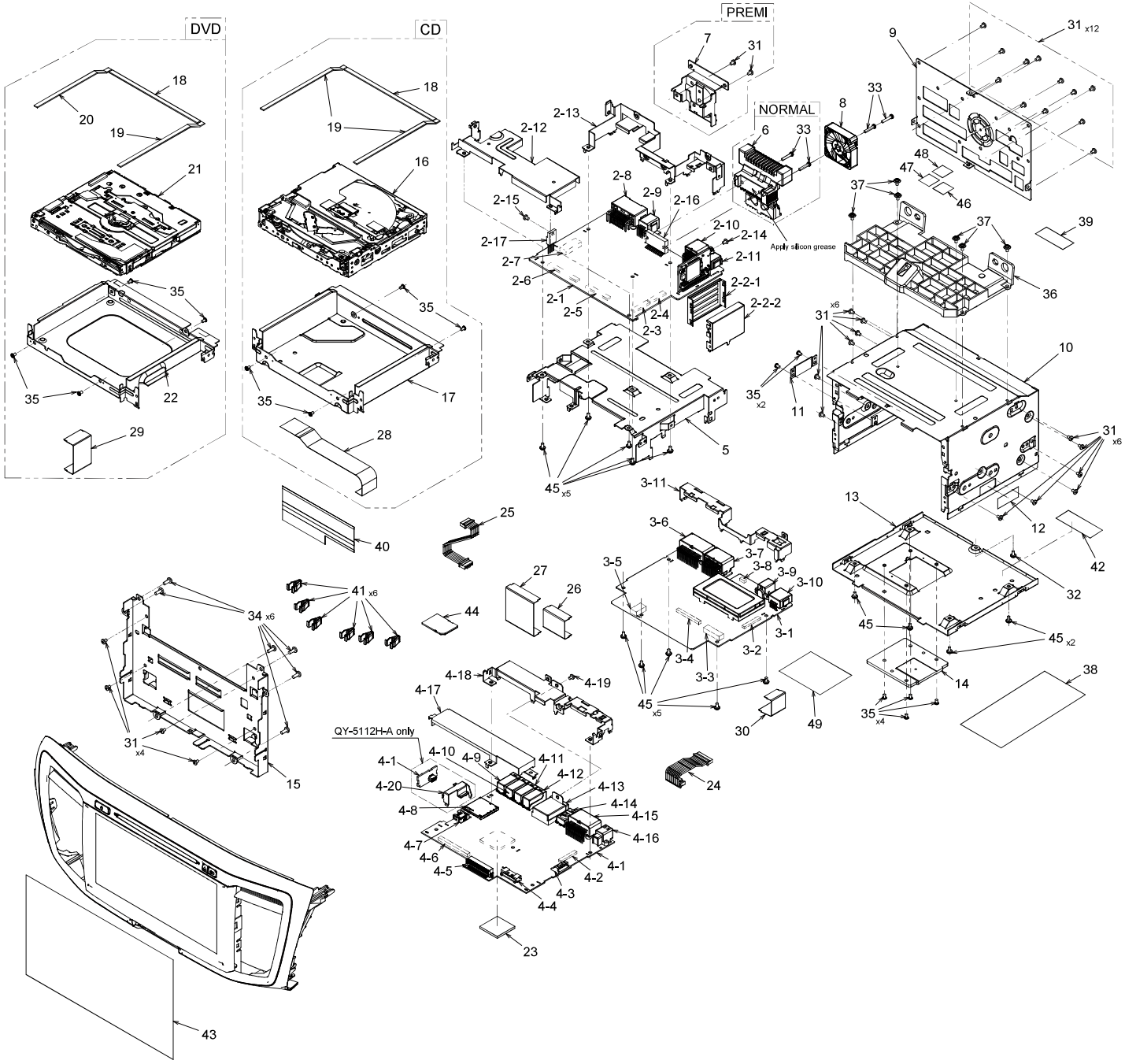


NO.	PART NO.	DESCRIPTION	Q'TY
1	----------	*Unused number	-
1-1	372-3255-00	FRONT CVR	1
1-2	948-8834-00	TOUCH PANEL-ASSY	1
1-3	----------	*Unused number	-
1-4	347-9500-00	CUSHION V	1
1-5	347-9549-00	ILLUMI SHEET	1
1-6	379-0506-00	TFT	1
1-7	940-8847-01	ESCUTCHEON-ASSY	1
1-8	----------	*Unused number	-
1-8-1	----------	PANEL PWB(462000-039)	1
1-8-2	013-6312-50	SWITCH	3
1-8-3	001-7148-96	LED(ICON)	20
1-8-4	001-7115-92	DIODE(POWER)	1
1-8-5	001-7134-72	LED(BUTTON)	2

NO.	PART NO.	DESCRIPTION	Q'TY
1-8-6	001-7134-74	LED(GUIDE)	2
1-8-7	001-7138-80	LED(INDI)	1
1-8-8	074-2306-10	OUTLET SOCKET	1
1-8-9	074-2306-00	OUTLET SOCKET	1
1-8-10	074-2305-59	OUTLET SOCKET	1
1-8-11	074-3072-90	OUTLET SOCKET	1
1-8-12	092-2203-00	ANT-RECEPT	2
1-9	331-5830-01	LCD-HOLDER(LH)	1
1-10	336-0104-00	ANT HOLDER L	1
1-11	336-0105-00	ANT HOLDER R	1
1-12	780-2604-50	IT SCREW	4
1-13	716-0778-52	SPECIAL SCREW	8
1-14	714-2603-8H	MACHINE SCREW	4
1-15	060-8180-20	FILM-ANT	2
1-16	----------	*Unused number	-
1-17	----------	*Unused number	-
1-18	----------	*Unused number	-
1-19	----------	*Unused number	-
1-20	----------	*Not mounted (BT AUTHENTICATION LABEL)	-

Main section

[EXPLODED VIEW]



[PARTS LIST]

NO.	PART NO.	DESCRIPTION	Q'TY
1	----------	*Unused number	-
2	----------	*Unused number	-
2-1	----------	AUDIO PWB(461600-039)	1
2-2	----------	*Unused number	-
2-2-1	----------	*Not mounted(SHIELD CASE-U)	-
2-2-2	----------	*Not mounted(SHIELD CASE-B)	-
2-3	074-2306-90	OUTLET SOCKET(40P)	1
2-4	----------	*Not mounted (OUTLET SOCKET 50P)	-
2-5	074-2306-10	OUTLET SOCKET(60P)	1
2-6	074-2306-30	OUTLET SOCKET(80P)	1
2-7	076-6021-56	PLUG	1
2-8	074-4118-24	OUTLET SOCKET	1
2-9	----------	*Not mounted(OUTLET SOCKET)	-
2-10	074-4017-12	OUTLET SOCKET	1
2-11	----------	*Not mounted(ANT RECEPT)	-
2-12	331-5837-01	PWB-HOLDER(AD)	1
2-13	331-5838-01	CN-HOLDER(AD)	1
2-14	----------	*Not mounted(MACHINE SCREW)	-
2-15	----------	*Not mounted(IT SCREW)	-
2-16	051-2084-00	IC	1
2-17	----------	*Not mounted(IC)	-
3	----------	*Unused number	-
3-1	----------	IF PWB(461900-039)	1
3-2	074-2306-90	OUTLET SOCKET(40P)	1
3-3	076-6021-60	PLUG	1
3-4	074-2306-10	OUTLET SOCKET(60P)	1
3-5	076-6021-56	PLUG	1
3-6	074-4017-28	OUTLET SOCKET	1
3-7	074-4017-20	OUTLET SOCKET	1
3-8	076-0569-02	PLUG	1
3-9	----------	*Not mounted(ANT-RECEPT)	-
3-10	----------	*Not mounted(OUTLET SOCKET)	-
3-11	331-5839-00	CN-HOLDER(IF)	1
4	----------	*Unused number	-
4-1	----------	CPU PWB(461800-039)	1
4-2	074-2306-90	OUTLET SOCKET(40P)	1
4-3	076-6023-07	PLUG	1
4-4	076-6021-60	PLUG	1
4-5	076-3072-90	PLUG(BtoB)	1
4-6	074-2306-30	OUTLET SOCKET(80P)	1
4-7	----------	*Not mounted(OUTLET SOCKET)	-
4-8	----------	*Not mounted(OUTLET SOCKET)	-
4-9	----------	*Not mounted(OUTLET SOCKET)	-
4-10	074-4099-30	OUTLET SOCKET	1
4-11	074-4099-00	OUTLET SOCKET	1
4-12	----------	*Not mounted(OUTLET SOCKET)	-
4-13	----------	*Not mounted(OUTLET SOCKET)	-
4-14	074-4126-00	OUTLET SOCKET	1
4-15	074-4017-24	OUTLET SOCKET	1
4-16	092-2249-00	ANT-RECEPT	1
4-17	331-5840-00	PWB-HOLDER(CPU)	1

NO.	PART NO.	DESCRIPTION	Q'TY
4-18	331-5841-01	CN-HOLDER(CPU)	1
4-19	----------	*Not mounted(MACHINE SCREW)	-
4-20	----------	*Not mounted(CPU-SEN-HOLDER)	-
5	312-0551-02	INNER-CHASSIS	1
6	313-2220-01	HEAT SINK	1
7	----------	*Not mounted(FAN-HOLDER)	-
8	020-3061-30	DC-MOTOR	1
9	307-0855-81	BACK-CVR(B)	1
10	310-2071-01	TOP-CASE	1
11	331-5692-01	SD COVER	1
12	347-9412-00	SHADE	1
13	311-2113-01	BOTTOM-CASE	1
14	313-2231-00	HEAT SINK(SOC)	1
15	309-2015-00	FRONT PLATE	1
16	929-5430-80	CD-MECH-MODULE	1
17	331-5835-01	MECH-BRKT(CD)	1
18	347-9551-00	CUSHION A	1
19	347-9552-00	CUSHION B	2
20	----------	*Not mounted(CUSHION C)	-
21	----------	*Not mounted (DVD MECH MODULE)	-
22	----------	*Not mounted(DVD MECH-BRKT)	-
23	345-7413-00	CUSHION	1
24	854-4677-50	EXTENSION LEAD(10P)	1
25	854-4681-50	EXTENSION LEAD(6P)	1
26	816-3181-06	FLAT WIRE(60P)	1
27	816-3182-05	FLAT WIRE(80P)	1
28	816-3167-06	FLAT WIRE(for CD)(40P)	1
29	----------	*Not mounted (FLAT WIRE for DVD)(50P)	-
30	816-3180-05	FLAT WIRE(40P)	1
31	714-2604-8B	MACHINE SCREW(M2.6x4)	28
32	780-2604-50	IT SCREW(M2.6x4)	1
33	780-2614-53	D-SEMS-SCREW	4
34	716-1553-50	SPECIAL SCREW	6
35	716-3504-80	SPECIAL SCREW	10
36	336-0061-01	INST-HOLDER	1
37	735-2606-1B	D-SEMS-SCREW	6
38	----------	SETPLATE(PH3775BA:158520-276)	1
	----------	SETPLATE(PH3775BB:158591-276)	1
39	----------	*Not mounted(XM CODE LABEL)	-
40	347-9585-00	INSULATOR	1
41	335-7317-00	CLIP	6
42	345-8764-00	SHIELD SHEET	1
43	347-9574-01	PROTECTION SHEET	1
44	----------	*Not mounted(SD CARD)	-
45	716-0878-50	SPECIAL SCREW(M2.6x5)	14
46	----------	*Not mounted(NAVI LABEL)	-
47	----------	*Not mounted(HLC LABEL)	-
48	----------	*Not mounted(GREENWAVE LABEL)	-
49	----------	*Not mounted(PTA LABEL)	-

△10/23/2015

ELECTRICAL PARTS LIST

PANEL PWB(B1) section

* Neither the part numbers of parts on which software is written, nor part numbers of parts for which replacement is prohibited in the production process are listed in the parts list.

REF NO.	PART NO.	DESCRIPTION
C102	043-4306-90	1uF
C103	043-4306-90	1uF
C104	043-4306-90	1uF
C105	043-4306-90	1uF
C106	043-4306-90	1uF
C107	043-4306-90	1uF
C108	043-4306-90	1uF
C109	043-4306-90	1uF
C110	043-4306-90	1uF
C112	046-1042-78	0.1uF K B
C113	046-1042-78	0.1uF K B
C114	043-4306-90	1uF
C115	043-4306-90	1uF
C116	166-1007-50	10pF CH
C117	166-1007-50	10pF CH
C118	166-1007-50	10pF CH
C119	166-1007-50	10pF CH
C120	166-1007-50	10pF CH
C121	166-1007-50	10pF CH
C122	166-1007-50	10pF CH
C123	166-1007-50	10pF CH
C124	166-1007-50	10pF CH
C125	166-1007-50	10pF CH
C126	166-1007-50	10pF CH
C127	166-1007-50	10pF CH
C128	166-1007-50	10pF CH
C129	166-1007-50	10pF CH
C130	166-1007-50	10pF CH
C131	166-1007-50	10pF CH
C132	166-1007-50	10pF CH
C133	166-1007-50	10pF CH
C134	166-1007-50	10pF CH
C135	166-1007-50	10pF CH
C136	166-1007-50	10pF CH
C137	166-1007-50	10pF CH
C138	166-1007-50	10pF CH
C139	166-1007-50	10pF CH
C140	166-1007-50	10pF CH
C141	166-1007-50	10pF CH
C142	166-1007-50	10pF CH
C143	166-1007-50	10pF CH
C144	166-1007-50	10pF CH
C145	166-1007-50	10pF CH
C146	166-1007-50	10pF CH
C147	043-4306-90	1uF
C149	046-1032-78	0.01uF K B
C150	046-1022-58	50V 1000pF
C151	045-1011-50	100pFJ CH
C152	046-2222-58	2200pF K B
C153	166-1007-50	10pF CH
C154	042-4057-92	6.3V 100uF
C155	165-4763-35	16V 47uF
C156	043-4306-90	1uF
C157	043-4306-90	1uF
C158	165-1073-15	6.3V 100uF
C201	042-4057-91	6.3V 22uF
C202	046-1032-78	0.01uF K B
C204	043-4306-90	1uF
C205	046-1032-78	0.01uF K B
C206	043-4306-90	1uF
C207	043-4306-90	1uF
C208	046-1032-78	0.01uF K B
C210	042-4057-91	6.3V 22uF
C215	046-1022-58	50V 1000pF
C217	042-4057-91	6.3V 22uF
C218	165-1073-15	6.3V 100uF
C219	165-1073-15	6.3V 100uF
C301	AAZ0254	50V 0.1uF
C302	AAZ0254	50V 0.1uF
C303	AAZ0254	50V 0.1uF
C319	042-4057-90	16V 47uF
C320	165-4763-35	16V 47uF
C322	043-0567-90	25V 22uF
C323	168-1052-78	16V 1uF K
C324	043-0559-90	6.3V 22uF
C325	168-1052-78	16V 1uF K
C326	043-7707-90	50V 10uF
C327	AAZ0293	25V 10uF 10%
C328	046-1022-58	50V 1000pF
C329	046-1022-58	50V 1000pF
C332	042-4035-95	16V 100uF
C333	168-1052-78	16V 1uF K
C336	043-4306-90	1uF
C337	043-4306-90	1uF
C338	168-1052-78	16V 1uF K
C339	168-1052-78	16V 1uF K
C340	043-5709-90	50V 1uF K
C342	043-0602-90	10uF
C343	045-1011-50	100pFJ CH
C349	043-5709-90	50V 1uF K
C350	043-5709-90	50V 1uF K
C351	043-5709-90	50V 1uF K
C352	043-5709-90	50V 1uF K
C353	043-5709-90	50V 1uF K
C354	043-5709-90	50V 1uF K
C355	043-5709-90	50V 1uF K
C356	043-5709-90	50V 1uF K
C357	043-5709-90	50V 1uF K
C358	043-5709-90	50V 1uF K
C359	043-5709-90	50V 1uF K
C360	043-5709-90	50V 1uF K
C361	043-5709-90	50V 1uF K
C362	043-5709-90	50V 1uF K
C402	042-4035-98	16V 47uF
C403	168-1052-78	16V 1uF K
D401	001-7148-96	NSSB064-1223
D402	001-7148-96	NSSB064-1223
D403	001-7148-96	NSSB064-1223
D404	001-7148-96	NSSB064-1223
D405	001-7148-96	NSSB064-1223
D406	001-7148-96	NSSB064-1223
D407	001-7148-96	NSSB064-1223
D408	001-7148-96	NSSB064-1223
D409	001-7148-96	NSSB064-1223
D410	001-7148-96	NSSB064-1223
D411	001-7148-96	NSSB064-1223
D412	001-7148-96	NSSB064-1223
D413	001-7148-96	NSSB064-1223
D414	001-7148-96	NSSB064-1223
D415	001-7148-96	NSSB064-1223
D416	001-7148-96	NSSB064-1223
D417	001-7148-96	NSSB064-1223
D418	001-7148-96	NSSB064-1223
D419	001-7148-96	NSSB064-1223
D420	001-7148-96	NSSB064-1223
D421	001-7134-72	NHSB046A-1220
D422	001-7134-72	NHSB046A-1220
D423	001-7115-92	VUG1111C
D424	001-7134-74	NHSB046A-1222
D425	001-7134-74	NHSB046A-1222
D427	001-7138-80	SMLS14EETT68
IC101	051-6117-91	ATMXT768E-AB
IC102	051-3774-90	NJM11100F1
IC201	060-8169-90	UGKZ2-H-05A (WIFI&BT-MODULE)
J101	074-2306-10	60P
J201	092-2203-00	ANT-RECEPT
J202	092-2203-00	ANT-RECEPT
J301	074-3072-90	90P
J302	074-2306-00	50P
J303	074-2305-59	9P
L102	BMZ0211	BLM18PG121SN 1D
L201	010-2285-31	BLM21PG331SN 1D
L202	010-2285-31	BLM21PG331SN 1D
L304	010-3111-91	220ohm
L305	010-3111-91	220ohm
L307	010-3417-90	10uH
L308	010-3558-52	NRS4018T100MD GJV
P101	076-6000-59	9P
Q401	CAZ0331	2SC4081T106R
Q402	CAZ0372	2SD1766T100R
Q404	CAZ0331	2SC4081T106R
Q405	CAZ0331	2SC4081T106R
Q406	CAZ0331	2SC4081T106R
Q407	CAZ0331	2SC4081T106R
Q408	CAZ0331	2SC4081T106R
R101	033-0000-05	1/16W 0 ohm
R102	033-1031-15	1/16W 10k ohm J
R104	033-0000-05	1/16W 0 ohm
R105	033-0000-05	1/16W 0 ohm
R106	033-0000-05	1/16W 0 ohm
R107	033-0000-05	1/16W 0 ohm
R108	033-1011-15	1/16W 100 ohm J
R109	033-1011-15	1/16W 100 ohm J
R113	033-1011-15	1/16W 100 ohm J
R115	033-3301-15	1/16W 33 ohm J
R119	033-3301-15	1/16W 33 ohm J
R120	033-3301-15	1/16W 33 ohm J
R122	032-0221-57	1/16W 13k ohm F
R123	032-0221-10	1/16W 15k ohm F
R124	033-1031-15	1/16W 10k ohm J
R180	119-0000-05	1/10W 0 ohm JW
R181	119-0000-05	1/10W 0 ohm JW
R184	117-1511-15	1/8W 150 ohm
R186	119-0000-05	1/10W 0 ohm JW
R187	119-0000-05	1/10W 0 ohm JW
R205	033-0000-05	1/16W 0 ohm
R206	033-0000-05	1/16W 0 ohm
R209	032-0221-02	1/16W 33 ohm 1%
R210	032-0221-02	1/16W 33 ohm 1%
R212	032-0221-02	1/16W 33 ohm 1%
R217	032-0221-91	1/16W 18 ohm F
R218	032-0221-91	1/16W 18 ohm F
R221	033-3331-15	1/16W 33k ohm J
R222	033-3331-15	1/16W 33k ohm J
R223	033-3011-15	1/16W 300 ohm J
R224	033-3011-15	1/16W 300 ohm J
R225	033-3011-15	1/16W 300 ohm J
R226	033-3011-15	1/16W 300 ohm J
R301	119-0000-05	1/10W 0 ohm JW
R302	119-0000-05	1/10W 0 ohm JW
R303	119-0000-05	1/10W 0 ohm JW
R304	117-0000-05	1/8W 0 ohm JW
R324	032-0221-04	1/16W 10 ohm F
R326	032-0221-04	1/16W 10 ohm F
R329	033-0000-05	1/16W 0 ohm
R330	033-0000-05	1/16W 0 ohm
R331	033-0000-05	1/16W 0 ohm
R332	033-0000-05	1/16W 0 ohm
R333	032-0210-45	1/10W 18 ohm F
R334	119-3391-15	1/10W 3.3 ohm
R335	119-5691-15	1/10W 5.6 ohm
R336	119-0000-05	1/10W 0 ohm JW
R337	AQZ0483	1/10W 12 ohm 1%
R338	AQZ0489	1/10W 39 ohm 1%
R339	AQZ0484	1/10W 15 ohm 1%
R340	119-2291-15	1/10W 2.2 ohm
R341	AQZ0483	1/10W 12 ohm 1%

REF NO.	PART NO.	DESCRIPTION
R342	AQZ0489	1/10W 39 ohm 1%
R343	AQZ0483	1/10W 12 ohm 1%
R344	119-0000-05	1/10W 0 ohm JW
R345	032-0210-37	1/10W 27 ohm F
R346	119-5691-15	1/10W 5.6 ohm
R347	AQZ0489	1/10W 39 ohm 1%
R348	032-0210-85	1/10W 150 ohm F
R349	032-0210-03	1/10W 10 ohm F
R350	032-0210-73	1/10W 390 ohm 1%
R351	032-0210-68	1/10W 220 ohm F
R352	032-0210-85	1/10W 150 ohm F
R353	032-0210-00	1/10W 330 ohm F
R354	032-0210-85	1/10W 150 ohm F
R355	119-2291-15	1/10W 2.2 ohm
R356	032-0210-85	1/10W 150 ohm F
R357	032-0210-00	1/10W 330 ohm F
R358	032-0210-85	1/10W 150 ohm F
R359	032-0210-68	1/10W 220 ohm F
R360	032-0210-73	1/10W 390 ohm 1%
R361	032-0210-08	1/10W 100 ohm F
R362	119-0000-05	1/10W 0 ohm JW
R363	119-2201-15	1/10W 22 ohm
R364	119-0000-05	1/10W 0 ohm JW
R368	032-0221-99	1/16W 100 ohm 1%
R369	032-0221-99	1/16W 100 ohm 1%
R370	032-0221-99	1/16W 100 ohm 1%
R371	032-0221-99	1/16W 100 ohm 1%
R372	032-0221-99	1/16W 100 ohm 1%
R373	033-1011-15	1/16W 100 ohm J
R376	033-1011-15	1/16W 100 ohm J
R377	033-1011-15	1/16W 100 ohm J
R380	033-0000-05	1/16W 0 ohm
R381	033-0000-05	1/16W 0 ohm
R383	033-0000-05	1/16W 0 ohm
R384	033-0000-05	1/16W 0 ohm
R390	033-0000-05	1/16W 0 ohm
R391	119-1011-15	1/10W 100 ohm
R392	119-0000-05	1/10W 0 ohm JW
R394	032-0221-83	1/16W 3.3k ohm F
R396	033-3331-15	1/16W 33k ohm J
R404	032-0210-45	1/10W 18 ohm F
R405	032-0210-73	1/10W 390 ohm 1%

REF NO.	PART NO.	DESCRIPTION
R407	119-0000-05	1/10W 0 ohm JW
R408	032-0210-74	1/10W 470 ohm F
R410	032-0210-68	1/10W 220 ohm F
R411	032-0210-00	1/10W 330 ohm F
R413	032-0210-68	1/10W 220 ohm F
R414	032-0210-00	1/10W 330 ohm F
R415	033-4721-15	1/16W 4.7k ohm J
R417	032-0210-38	1/10W 110 ohm F
R418	032-0210-00	1/10W 330 ohm F
R419	033-2231-15	1/16W 22k ohm J
R421	032-0210-38	1/10W 110 ohm F
R422	032-0210-00	1/10W 330 ohm F
R424	032-0210-25	1/10W 68 ohm F
R425	032-0210-73	1/10W 390 ohm 1%
R427	032-0210-25	1/10W 68 ohm F
R428	032-0210-73	1/10W 390 ohm 1%
R430	032-0210-03	1/10W 10 ohm F
R431	032-0210-80	1/10W 270 ohm F
R433	032-0210-03	1/10W 10 ohm F
R434	032-0210-80	1/10W 270 ohm F
R436	032-0210-30	1/10W 56 ohm F
R437	032-0210-92	1/10W 560 ohm F
R440	032-0210-30	1/10W 56 ohm F
R441	032-0210-92	1/10W 560 ohm F
R443	032-0210-30	1/10W 56 ohm F
R444	032-0210-92	1/10W 560 ohm F
R446	032-0210-30	1/10W 56 ohm F
R447	032-0210-92	1/10W 560 ohm F
R449	032-0210-08	1/10W 100 ohm F
R450	032-0210-00	1/10W 330 ohm F
R452	032-0210-08	1/10W 100 ohm F
R453	032-0210-00	1/10W 330 ohm F
R455	AQZ0484	1/10W 15 ohm 1%
R456	032-0210-13	1/10W 300 ohm 1%
R458	AQZ0484	1/10W 15 ohm 1%
R459	032-0210-13	1/10W 300 ohm 1%
R461	032-0210-85	1/10W 150 ohm F
R462	032-0210-00	1/10W 330 ohm F
R464	032-0210-85	1/10W 150 ohm F
R465	032-0210-00	1/10W 330 ohm F
R466	033-5621-15	1/16W 5.6k ohm J
R467	033-1031-15	1/16W 10k ohm J

REF NO.	PART NO.	DESCRIPTION
R469	AQZ0489	1/10W 39 ohm 1%
R470	032-0210-81	1/10W 2.7k ohm F
R473	032-0210-50	1/10W 360 ohm F
R474	032-0210-72	1/10W 1.8k ohm 1%
R475	033-5621-15	1/16W 5.6k ohm J
R476	033-1031-15	1/16W 10k ohm J
R478	032-0210-35	1/10W 120 ohm F
R479	032-0210-77	1/10W 1.5k ohm F
R480	033-5621-15	1/16W 5.6k ohm J
R481	033-1031-15	1/16W 10k ohm J
R483	032-0210-55	1/10W 2.2k ohm F
R484	032-0210-81	1/10W 2.7k ohm F
R485	032-0221-83	1/16W 3.3k ohm F
R487	032-0210-55	1/10W 2.2k ohm F
R488	032-0210-81	1/10W 2.7k ohm F
R489	033-2231-15	1/16W 22k ohm J
R494	032-0210-00	1/10W 330 ohm F
R495	032-0210-40	1/10W 1.3k ohm F
R496	119-0000-05	1/10W 0 ohm JW
R497	033-5621-15	1/16W 5.6k ohm J
R498	033-1031-15	1/16W 10k ohm J
RN104	050-0156-78	1/16W 1k ohm x4
RN105	050-0156-78	1/16W 1k ohm x4
RN106	050-0156-78	1/16W 1k ohm x4
RN107	050-0156-78	1/16W 1k ohm x4
RN108	050-0156-78	1/16W 1k ohm x4
RN109	050-0156-78	1/16W 1k ohm x4
RN110	050-0156-78	1/16W 1k ohm x4
RN111	050-0156-78	1/16W 1k ohm x4
RN201	050-0156-59	1/16W 33 ohm x4
RN202	050-0156-59	1/16W 33 ohm x4
RN203	050-0156-52	1/16W 100 ohm x4
RN301	050-0156-52	1/16W 100 ohm x4
RN302	050-0156-57	1/16W 10k ohm x4
RN303	050-0156-70	1/16W 10 ohm x4
RN304	050-0156-70	1/16W 10 ohm x4
SW301	013-6312-50	SKRP-ABE-010
SW302	013-6312-50	SKRP-ABE-010
SW303	013-6312-50	SKRP-ABE-010
PWB	039-4620-00	PWB(WITHOUT COMPONENTS)

AUDIO PWB(B2) section

REF NO.	PART NO.	DESCRIPTION
C101	042-0638-51	16V 220uF
C103	043-4402-90	16V 1uF
C104	042-4035-84	6.3V 100uF
C105	043-4306-90	1uF
C106	043-4306-90	1uF
C107	043-4306-90	1uF
C109	043-4306-90	1uF
C110	043-4306-90	1uF
C112	043-4402-90	16V 1uF
C114	043-4306-90	1uF
C115	043-4306-90	1uF
C116	043-4306-90	1uF
C117	043-4306-90	1uF
C118	043-4306-90	1uF
C119	043-4306-90	1uF
C121	043-4306-90	1uF
C122	043-4306-90	1uF
C123	045-1011-50	100pFJ CH
C124	043-4306-90	1uF
C125	043-4306-90	1uF
C126	045-1011-50	100pFJ CH
C128	043-4306-90	1uF
C129	043-4306-90	1uF
C130	043-4306-90	1uF
C131	043-4306-90	1uF
C133	043-4306-90	1uF
C134	043-4306-90	1uF
C135	046-1032-78	0.01uF K B
C136	043-4306-90	1uF
C137	043-4306-90	1uF
C139	043-4306-90	1uF
C141	043-4306-90	1uF
C142	043-4306-90	1uF
C143	043-4306-90	1uF
C153	168-1052-78	16V 1uF K
C154	043-4306-90	1uF
C155	045-1201-50	12pFJ CH
C156	045-1201-50	12pFJ CH
C157	043-4306-90	1uF
C158	043-4306-90	1uF
C160	042-4035-96	6.3V 47uF
C161	165-1073-15	6.3V 100uF
C163	045-1011-50	100pFJ CH
C164	045-1011-50	100pFJ CH
C165	043-4306-90	1uF
C167	046-1042-78	0.1uF K B
C168	046-1022-58	50V 1000pF
C201	043-0570-90	16V 2.2uF K
C202	043-0570-90	16V 2.2uF K
C203	043-0570-90	16V 2.2uF K
C204	043-0570-90	16V 2.2uF K
C209	046-1022-58	50V 1000pF
C210	046-1022-58	50V 1000pF
C211	045-1011-50	100pFJ CH
C212	045-1011-50	100pFJ CH
C213	045-1011-50	100pFJ CH
C214	045-1011-50	100pFJ CH
C222	046-1042-78	0.1uF K B
C223	168-4752-98	4.7uF K
C224	168-4752-98	4.7uF K
C225	046-1042-78	0.1uF K B
C226	046-1042-78	0.1uF K B
C227	046-1042-78	0.1uF K B
C228	046-1042-78	0.1uF K B
C229	043-4402-90	16V 1uF
C230	043-4402-90	16V 1uF
C231	043-4306-90	1uF
C232	046-1042-78	0.1uF K B
C233	046-1042-78	0.1uF K B
C234	045-1007-50	10 +/-0.5pF CH
C235	046-1042-78	0.1uF K B
C237	045-1007-50	10 +/-0.5pF CH
C238	168-4752-98	4.7uF K

REF NO.	PART NO.	DESCRIPTION
C239	043-4402-90	16V 1uF
C240	042-0560-85	6.3V 100uF
C241	043-4402-90	16V 1uF
C242	046-1042-78	0.1uF K B
C243	046-1042-78	0.1uF K B
C245	043-4402-90	16V 1uF
C247	168-1042-78	16V 0.1uF K
C248	168-1052-78	16V 1uF K
C249	046-1042-78	0.1uF K B
C250	046-1022-58	50V 1000pF
C251	043-4402-90	16V 1uF
C252	165-2263-15	6.3V 22uF
C253	043-0559-90	6.3V 22uF
C254	168-1062-98	10uF K
C255	043-4402-90	16V 1uF
C256	043-4402-90	16V 1uF
C257	168-1052-78	16V 1uF K
C259	043-4402-90	16V 1uF
C260	043-4402-90	16V 1uF
C261	043-4402-90	16V 1uF
C262	043-4402-90	16V 1uF
C263	046-1042-78	0.1uF K B
C269	046-1042-78	0.1uF K B
C270	165-1073-35	16V 100uF
C271	046-2232-78	0.022uF K B
C272	046-1022-58	50V 1000pF
C273	046-1022-58	50V 1000pF
C275	165-4763-15	6.3V 47uF
C276	046-1022-58	50V 1000pF
C277	046-1022-58	50V 1000pF
C278	046-3322-58	3300pF K B
C279	046-3322-58	3300pF K B
C280	168-1052-78	16V 1uF K
C281	168-1052-78	16V 1uF K
C282	046-1042-78	0.1uF K B
C283	046-1042-78	0.1uF K B
C284	046-1042-78	0.1uF K B
C285	046-1042-78	0.1uF K B
C286	042-0638-51	16V 220uF
C287	042-0560-85	6.3V 100uF
C288	046-1022-58	50V 1000pF
C289	043-4402-90	16V 1uF
C290	168-1022-55	1000pF K
C292	165-1073-35	16V 100uF
C294	165-2263-15	6.3V 22uF
C295	178-1052-78	25V 1uF
C296	165-2263-15	6.3V 22uF
C297	046-1042-78	0.1uF K B
C298	043-4402-90	16V 1uF
C299	165-4763-15	6.3V 47uF
C402	043-2701-90	50V 10uF
C404	043-4402-90	16V 1uF
C501	042-0638-51	16V 220uF
C502	042-0638-51	16V 220uF
C503	043-4402-90	16V 1uF
C508	168-1052-78	16V 1uF K
C517	165-2263-35	16V 22uF
C519	165-2263-35	16V 22uF
C521	165-2263-35	16V 22uF
C522	165-2263-35	16V 22uF
C525	166-1811-50	180pF CH
C527	166-1811-50	180pF CH
C529	166-1811-50	180pF CH
C530	166-1811-50	180pF CH
C532	166-2201-50	22pF CH
C533	166-2201-50	22pF CH
C534	166-2201-50	22pF CH
C539	166-2201-50	22pF CH
C540	043-4402-90	16V 1uF
C541	043-4402-90	16V 1uF
C542	043-4402-90	16V 1uF
C543	043-4402-90	16V 1uF
C554	043-4402-90	16V 1uF

REF NO.	PART NO.	DESCRIPTION
C563	042-0638-51	16V 220uF
C564	042-0638-51	16V 220uF
C565	042-0638-51	16V 220uF
C566	042-0638-51	16V 220uF
C568	043-4402-90	16V 1uF
C577	046-1022-58	50V 1000pF
C613	043-4402-90	16V 1uF
C701	043-4402-90	16V 1uF
C713	045-2011-50	50V 200pF
C714	045-2011-50	50V 200pF
C715	043-0603-90	16V 10uF
C717	046-2222-58	2200pF K B
C718	046-2222-58	2200pF K B
C719	166-2221-50	2200pF CH
C720	166-2221-50	2200pF CH
C721	166-2221-50	2200pF CH
C722	166-2221-50	2200pF CH
C814	168-1042-38	50V 0.1uF K
C903	AAZ0264	16V 1uF
C909	043-4306-90	1uF
C1025	046-1042-78	0.1uF K B
C1027	043-4402-90	16V 1uF
C1028	043-4402-90	16V 1uF
C1029	046-4722-38	50V 4700pF
C1103	043-4402-90	16V 1uF
C1104	046-1042-78	0.1uF K B
C1106	043-4402-90	16V 1uF
C1108	043-4402-90	16V 1uF
C1111	165-1073-35	16V 100uF
C1112	042-4035-90	6.3V 22uF
C1113	043-4402-90	16V 1uF
C1114	043-4306-90	1uF
C1201	043-6400-90	16V 4.7uF K
C1202	043-6400-90	16V 4.7uF K
C1203	043-6400-90	16V 4.7uF K
C1204	043-6400-90	16V 4.7uF K
C1205	166-2221-50	2200pF CH
C1211	046-3332-78	0.033uF K B
C1212	168-1042-38	50V 0.1uF K
C1214	042-1755-90	16V 47uF
C1215	168-1052-78	16V 1uF K
C1216	042-4047-90	50V 1uF
C1218	043-8000-90	50V 0.1uF
C1219	043-5709-90	50V 1uF K
C1220	043-4306-90	1uF
C1221	168-6822-55	6800pF K
C1222	168-6822-55	6800pF K
C1223	168-6822-55	6800pF K
C1224	168-6822-55	6800pF K
C1225	043-5709-90	50V 1uF K
C1226	042-4441-00	25V 4700uF
C1228	046-1022-58	50V 1000pF
C1229	046-1022-58	50V 1000pF
C1234	043-4306-90	1uF
C1235	168-6822-55	6800pF K
C1236	168-6822-55	6800pF K
C1237	168-6822-55	6800pF K
C1238	168-6822-55	6800pF K
C1239	168-2242-58	0.22uF K
C1240	168-2242-58	0.22uF K
C1241	168-1032-55	0.01uF K
C1242	165-1063-55	35V 10uF
C1244	043-0566-90	50V 2.2uF K
C1245	043-0566-90	50V 2.2uF K
C1248	168-1042-38	50V 0.1uF K
C1249	043-4306-90	1uF
C1250	168-1052-78	16V 1uF K
C1251	042-4034-90	25V 470uF
C1252	043-5709-90	50V 1uF K
C1253	043-8000-90	50V 0.1uF
C1254	043-8000-90	50V 0.1uF
C1255	168-2242-58	0.22uF K
C1256	168-2242-58	0.22uF K

REF NO.	PART NO.	DESCRIPTION
C1257	168-2242-58	0.22uF K
C1258	168-2242-58	0.22uF K
C1259	042-4034-90	25V 470uF
C1260	042-4441-00	25V 4700uF
C1261	168-1042-38	50V 0.1uF K
C1262	168-1042-38	50V 0.1uF K
C1301	046-1042-78	0.1uF K B
C1302	042-4034-92	25V 680uF
C1303	168-1042-78	16V 0.1uF K
C1304	168-1042-78	16V 0.1uF K
C1314	046-1042-78	0.1uF K B
C1329	043-5709-90	50V 1uF K
C1330	043-5709-90	50V 1uF K
C1334	043-0603-90	16V 10uF
C1336	168-1052-78	16V 1uF K
C1337	042-4035-95	16V 100uF
C1340	043-4402-90	16V 1uF
C1343	168-1052-78	16V 1uF K
C1344	043-0573-90	10V 22uF
C1345	043-4306-90	1uF
C1346	045-1007-50	10 +/-0.5pF CH
C1347	046-3922-58	3900pF K B
C1348	043-0603-90	16V 10uF
C1349	043-7707-90	50V 10uF
C1350	168-1032-55	0.01uF K
C1353	168-1042-38	50V 0.1uF K
C1354	043-7300-90	10V 47uF
C1357	168-1052-78	16V 1uF K
C1358	045-5096-50	5pF +/-0.25pF CH
C1359	046-3322-58	3300pF K B
C1360	168-1042-38	50V 0.1uF K
C1361	168-1042-38	50V 0.1uF K
C1364	043-0563-90	16V 47uF
C1365	168-1052-78	16V 1uF K
C1366	043-4306-90	1uF
C1367	168-1042-38	50V 0.1uF K
C1368	043-7707-90	50V 10uF
C1369	042-4046-91	25V 220uF
C1370	165-1073-15	6.3V 100uF
C1372	042-4035-95	16V 100uF
C1375	043-7700-90	50V 4.7uF
C1377	043-7700-90	50V 4.7uF
C1378	042-4034-90	25V 470uF
C1380	046-1042-78	0.1uF K B
C1382	043-4402-90	16V 1uF
C1383	042-1784-90	16V 470uF
C1384	043-5709-90	50V 1uF K
C1385	165-1063-35	16V 10uF
C1386	043-4306-90	1uF
C1387	165-1063-35	16V 10uF
C1390	168-1052-78	16V 1uF K
C1392	046-2212-58	220pF K B
C1393	046-2222-58	2200pF K B
C1394	046-2222-58	2200pF K B
C1395	168-1032-55	0.01uF K
C1396	043-5709-90	50V 1uF K
C1397	046-2222-58	2200pF K B
C1398	046-1022-58	50V 1000pF
C1399	046-1022-58	50V 1000pF
C1401	043-7400-90	16V 22uF
C1402	168-1052-78	16V 1uF K
C1403	043-4306-90	1uF
C1404	042-0560-85	6.3V 100uF
C1405	168-1022-55	1000pF K
C1406	178-1052-78	25V 1uF
C1407	165-2263-35	16V 22uF
C1408	043-4402-90	16V 1uF
C1416	165-2263-15	6.3V 22uF
C1417	043-4306-90	1uF
C1418	042-0560-85	6.3V 100uF
C1419	043-4306-90	1uF
C1420	046-2222-58	2200pF K B
C1421	165-1073-35	16V 100uF
C1422	046-1022-58	50V 1000pF

REF NO.	PART NO.	DESCRIPTION
D101	001-2633-90	1SS388-TPL3,F
D102	001-2633-90	1SS388-TPL3,F
D1201	001-2403-90	M1F60
D1203	001-2630-90	1SS420-TPL3,F
D1204	001-2630-90	1SS420-TPL3,F
D1205	001-1325-90	1SS387
D1206	001-1325-90	1SS387
D1207	001-1325-90	1SS387
D1208	001-1325-90	1SS387
D1209	001-2403-90	M1F60
D1307	001-2633-90	1SS388-TPL3,F
D1309	001-2633-90	1SS388-TPL3,F
D1310	001-2633-90	1SS388-TPL3,F
D1312	001-2629-90	D1FM3-5063
IC101	051-7202-90	MC74VHC1G32DFT2G
IC102	051-3724-80	S-1172B1C-E6T1U
IC103	----------	R5S72691P266FP (MICOM)(BGA) (043630-052)
IC104	051-5481-90	S-1009N30I-M5T1U
IC105	051-9854-00	S25FL164KOXMFI010
IC106	051-7221-18	TC7SH04FU
IC201	----------	SAF7741HV/N127ZK (DSP) (Exposed die pad) (674713-051)
IC202	051-3516-90	S-1132B33-U5T1G
IC203	051-3328-90	S-1323B18NB-N8D-TF
IC502	051-3010-90	NJM4580E
IC503	051-3010-90	NJM4580E
IC504	051-3010-90	NJM4580E
IC505	051-3010-90	NJM4580E
IC506	051-3010-90	NJM4580E
IC701	051-6676-90	CA0013BM
IC901	051-7202-90	MC74VHC1G32DFT2G
IC1102	051-6746-90	AK4113VF
IC1105	051-7566-90	NLV27WZU04DFT2G
IC1106	051-7566-90	NLV27WZU04DFT2G
IC1201	051-2084-00	TB2941HQ(O)
IC1203	051-7202-90	MC74VHC1G32DFT2G
IC1204	051-5811-90	L9637D
IC1205	051-7547-90	SN74LVC1G07DCKR
IC1301	051-5468-80	XC6118N10AMR-G
IC1302	051-5468-80	XC6118N10AMR-G
IC1304	----------	BD00D0AWHFP-TR (Voltage regulator) (Thermal pad) (370990-051)
IC1305	051-3519-90	NJU7771F05-TE2
IC1307	051-3767-90	BD00GC0EEFJ-ME2
IC1308	051-3941-90	BD2232G-GTR
IC1309	----------	MAX16933ATIR/V+T (Buck Controller) (TQFN-EP) (366390-051)
IC1401	051-3579-90	S1112B15MCL6ATFG
IC1402	051-3766-90	BD00HC5EEFJ-ME2
J101	074-2255-09	FH33-9S-0.5SH 9P
J701	074-4017-12	12P

REF NO.	PART NO.	DESCRIPTION
J901	074-2306-10	60P
J902	074-2306-30	80P
J1201	074-4118-24	24P
J1401	074-2306-90	40P
L101	010-3104-54	600 ohm/100MHz
L102	010-3104-54	600 ohm/100MHz
L201	010-3104-54	600 ohm/100MHz
L202	010-3104-54	600 ohm/100MHz
L206	010-3104-54	600 ohm/100MHz
L211	010-3104-54	600 ohm/100MHz
L220	010-3104-54	600 ohm/100MHz
L222	010-3104-54	600 ohm/100MHz
L223	010-3104-54	600 ohm/100MHz
L225	010-3108-57	MPZ2012S102AT000
L226	010-3104-54	600 ohm/100MHz
L227	010-3108-57	MPZ2012S102AT000
L401	119-0000-05	1/10W 0 ohm JW
L503	119-0000-05	1/10W 0 ohm JW
L701	010-3104-54	600 ohm/100MHz
L801	119-0000-05	1/10W 0 ohm JW
L1102	010-3127-91	220 ohm/100MHz
L1103	010-3104-54	600 ohm/100MHz
L1201	010-3105-62	1k ohm/100MHz
L1202	010-3105-62	1k ohm/100MHz
L1203	010-3104-54	600 ohm/100MHz
L1206	010-8070-00	60uH
L1207	010-8067-00	DN-CL2733-5
L1208	010-3105-62	1k ohm/100MHz
L1209	010-3105-62	1k ohm/100MHz
L1306	010-3545-53	22uH
L1307	010-3545-53	22uH
L1308	010-3580-50	4.7uH
L1309	010-3104-54	600 ohm/100MHz
L1310	010-3104-50	30 ohm/100MHz
L1401	010-3104-50	30 ohm/100MHz
L1402	010-3104-50	30 ohm/100MHz
L1403	010-3104-50	30 ohm/100MHz
L1404	010-3104-50	30 ohm/100MHz
L1405	010-3104-54	600 ohm/100MHz
L1406	010-3104-54	600 ohm/100MHz
P901	076-6021-56	6P
Q101	190-1586-00	2SA1586 O,Y,G
Q102	125-7016-90	RZQ050P01TR
Q201	125-7007-90	Si5441BDC-TI-E3
Q701	192-4081-00	2SC4081
Q901	192-4081-00	2SC4081
Q902	191-1197-50	2SB1197K Q,R
Q903	192-4081-00	2SC4081
Q1001	125-7016-90	RZQ050P01TR
Q1002	192-4116-00	2SC4116
Q1201	125-2046-91	DTC114EUBTL
Q1203	125-7011-90	RSR025P03TL
Q1204	192-4081-00	2SC4081
Q1305	125-0035-91	DTA114EUBTL
Q1306	192-4081-00	2SC4081
Q1307	125-8044-90	SH8K15GZETB
Q1308	125-8044-90	SH8K15GZETB
Q1309	125-7016-90	RZQ050P01TR
Q1310	192-4116-00	2SC4116
Q1401	125-2046-91	DTC114EUBTL
Q1402	191-1197-50	2SB1197K Q,R
Q1403	125-2046-91	DTC114EUBTL
Q1404	191-1197-50	2SB1197K Q,R
R101	033-3301-15	1/16W 33 ohm J
R102	033-3301-15	1/16W 33 ohm J
R103	033-3301-15	1/16W 33 ohm J
R104	033-0000-05	1/16W 0 ohm
R109	032-0221-75	1/16W 47k ohm F
R110	032-0221-75	1/16W 47k ohm F
R115	032-0221-74	1/16W 10k ohm 1%
R116	032-0221-09	1/16W 33k ohm F
R117	032-0221-75	1/16W 47k ohm F

REF NO.	PART NO.	DESCRIPTION
R118	032-0221-06	1/16W 100k ohm F
R120	032-0221-75	1/16W 47k ohm F
R121	032-0221-75	1/16W 47k ohm F
R125	032-0221-75	1/16W 47k ohm F
R126	032-0221-75	1/16W 47k ohm F
R127	032-0221-09	1/16W 33k ohm F
R128	032-0221-09	1/16W 33k ohm F
R129	033-3301-15	1/16W 33 ohm J
R130	033-6801-15	1/16W 68 ohm J
R131	033-4701-15	1/16W 47 ohm J
R132	032-0221-75	1/16W 47k ohm F
R133	032-0221-75	1/16W 47k ohm F
R134	032-0221-75	1/16W 47k ohm F
R135	032-0221-74	1/16W 10k ohm 1%
R137	032-0221-74	1/16W 10k ohm 1%
R139	032-0221-75	1/16W 47k ohm F
R140	032-0221-75	1/16W 47k ohm F
R141	032-0221-08	1/16W 1k ohm F
R142	032-0221-75	1/16W 47k ohm F
R143	032-0221-06	1/16W 100k ohm F
R144	032-0221-75	1/16W 47k ohm F
R145	032-0221-75	1/16W 47k ohm F
R146	032-0221-74	1/16W 10k ohm 1%
R147	032-0221-75	1/16W 47k ohm F
R148	032-0221-75	1/16W 47k ohm F
R149	032-0221-75	1/16W 47k ohm F
R150	032-0221-74	1/16W 10k ohm 1%
R151	033-3301-15	1/16W 33 ohm J
R152	032-0221-74	1/16W 10k ohm 1%
R153	032-0221-74	1/16W 10k ohm 1%
R154	033-3301-15	1/16W 33 ohm J
R156	032-0221-74	1/16W 10k ohm 1%
R157	032-0221-74	1/16W 10k ohm 1%
R158	032-0221-99	1/16W 100 ohm 1%
R159	032-0221-75	1/16W 47k ohm F
R160	032-0221-99	1/16W 100 ohm 1%
R161	032-0221-75	1/16W 47k ohm F
R162	032-0221-74	1/16W 10k ohm 1%
R163	032-0221-74	1/16W 10k ohm 1%
R164	032-0221-74	1/16W 10k ohm 1%
R165	032-0221-99	1/16W 100 ohm 1%
R166	033-0000-05	1/16W 0 ohm
R167	033-3301-15	1/16W 33 ohm J
R168	033-3921-15	1/16W 3.9k ohm J
R169	032-0221-74	1/16W 10k ohm 1%
R170	032-0221-75	1/16W 47k ohm F
R171	032-0221-51	1/16W 4.7k ohm F
R172	033-0000-05	1/16W 0 ohm
R173	033-3921-15	1/16W 3.9k ohm J
R175	033-5621-15	1/16W 5.6k ohm J
R176	032-0221-51	1/16W 4.7k ohm F
R177	032-0221-51	1/16W 4.7k ohm F
R178	033-3921-15	1/16W 3.9k ohm J
R179	033-3921-15	1/16W 3.9k ohm J
R180	032-0221-76	1/16W 24k ohm F
R181	032-0221-74	1/16W 10k ohm 1%
R183	033-3321-15	1/16W 3.3k ohm J
R184	033-0000-05	1/16W 0 ohm
R185	032-0221-99	1/16W 100 ohm 1%
R186	032-0221-99	1/16W 100 ohm 1%
R191	032-0221-99	1/16W 100 ohm 1%
R193	032-0221-99	1/16W 100 ohm 1%
R194	032-0221-99	1/16W 100 ohm 1%
R196	032-0221-51	1/16W 4.7k ohm F
R197	033-3301-15	1/16W 33 ohm J
R198	033-3301-15	1/16W 33 ohm J
R199	033-3301-15	1/16W 33 ohm J
R201	033-5601-15	1/16W 56 ohm J
R203	032-0221-09	1/16W 33k ohm F
R204	032-0221-09	1/16W 33k ohm F
R205	032-0221-09	1/16W 33k ohm F
R206	032-0221-09	1/16W 33k ohm F
R213	032-0221-09	1/16W 33k ohm F
R214	032-0221-09	1/16W 33k ohm F

REF NO.	PART NO.	DESCRIPTION
R215	032-0221-09	1/16W 33k ohm F
R216	032-0221-09	1/16W 33k ohm F
R217	033-0000-05	1/16W 0 ohm
R218	033-0000-05	1/16W 0 ohm
R219	033-0000-05	1/16W 0 ohm
R220	033-0000-05	1/16W 0 ohm
R223	032-0221-74	1/16W 10k ohm 1%
R226	032-0221-99	1/16W 100 ohm 1%
R227	032-0221-74	1/16W 10k ohm 1%
R228	032-0221-74	1/16W 10k ohm 1%
R229	032-0210-36	1/10W 22 ohm F
R230	032-0225-87	1/16W 75 ohm +/- 0.5%
R231	033-3301-15	1/16W 33 ohm J
R232	032-0221-99	1/16W 100 ohm 1%
R234	032-0225-87	1/16W 75 ohm +/- 0.5%
R235	119-0000-05	1/10W 0 ohm JW
R236	033-5601-15	1/16W 56 ohm J
R238	033-5601-15	1/16W 56 ohm J
R239	033-5601-15	1/16W 56 ohm J
R240	033-0000-05	1/16W 0 ohm
R241	033-0000-05	1/16W 0 ohm
R243	033-0000-05	1/16W 0 ohm
R245	119-0000-05	1/10W 0 ohm JW
R246	119-0000-05	1/10W 0 ohm JW
R248	119-0000-05	1/10W 0 ohm JW
R249	033-5601-15	1/16W 56 ohm J
R250	033-5601-15	1/16W 56 ohm J
R251	033-5601-15	1/16W 56 ohm J
R252	119-0000-05	1/10W 0 ohm JW
R253	119-0000-05	1/10W 0 ohm JW
R259	033-0000-05	1/16W 0 ohm
R260	119-0000-05	1/10W 0 ohm JW
R261	119-0000-05	1/10W 0 ohm JW
R262	032-0221-74	1/16W 10k ohm 1%
R264	033-0000-05	1/16W 0 ohm
R265	033-0000-05	1/16W 0 ohm
R266	033-0000-05	1/16W 0 ohm
R267	033-0000-05	1/16W 0 ohm
R269	119-0000-05	1/10W 0 ohm JW
R270	119-0000-05	1/10W 0 ohm JW
R271	119-0000-05	1/10W 0 ohm JW
R272	119-0000-05	1/10W 0 ohm JW
R273	033-0000-05	1/16W 0 ohm
R274	033-0000-05	1/16W 0 ohm
R275	033-0000-05	1/16W 0 ohm
R281	032-0221-99	1/16W 100 ohm 1%
R282	032-0221-99	1/16W 100 ohm 1%
R289	032-0210-03	1/10W 10 ohm F
R290	032-0210-03	1/10W 10 ohm F
R291	033-0000-05	1/16W 0 ohm
R293	033-0000-05	1/16W 0 ohm
R298	033-5601-15	1/16W 56 ohm J
R299	033-5601-15	1/16W 56 ohm J
R300	119-0000-05	1/10W 0 ohm JW
R508	117-2211-15	1/8W 220 ohm
R514	119-0000-05	1/10W 0 ohm JW
R515	119-0000-05	1/10W 0 ohm JW
R516	119-0000-05	1/10W 0 ohm JW
R517	119-0000-05	1/10W 0 ohm JW
R523	032-0210-56	1/10W 22k ohm F
R525	032-0210-56	1/10W 22k ohm F
R527	032-0210-56	1/10W 22k ohm F
R528	032-0210-56	1/10W 22k ohm F
R530	032-0210-91	1/10W 47k ohm
R531	032-0210-91	1/10W 47k ohm
R532	032-0210-91	1/10W 47k ohm
R533	119-0000-05	1/10W 0 ohm JW
R534	119-0000-05	1/10W 0 ohm JW
R535	119-0000-05	1/10W 0 ohm JW
R536	119-0000-05	1/10W 0 ohm JW
R537	032-0210-91	1/10W 47k ohm
R538	032-0210-91	1/10W 47k ohm

REF NO.	PART NO.	DESCRIPTION
R539	032-0210-91	1/10W 47k ohm
R540	032-0210-91	1/10W 47k ohm
R541	119-0000-05	1/10W 0 ohm JW
R542	119-0000-05	1/10W 0 ohm JW
R543	119-0000-05	1/10W 0 ohm JW
R544	119-0000-05	1/10W 0 ohm JW
R545	032-0210-91	1/10W 47k ohm
R546	119-0000-05	1/10W 0 ohm JW
R547	119-0000-05	1/10W 0 ohm JW
R548	119-0000-05	1/10W 0 ohm JW
R549	119-0000-05	1/10W 0 ohm JW
R599	119-0000-05	1/10W 0 ohm JW
R703	116-1011-15	1/4W 100 ohm
R704	116-1011-15	1/4W 100 ohm
R705	116-6801-15	1/4W 68 ohm
R706	032-0221-74	1/16W 10k ohm 1%
R707	032-0221-74	1/16W 10k ohm 1%
R708	032-0175-07	1/4W 120 ohm J
R717	116-4731-15	1/4W 47k ohm
R718	116-4731-15	1/4W 47k ohm
R723	032-0175-05	1/4W 47k ohm J
R724	032-0175-05	1/4W 47k ohm J
R725	032-0175-05	1/4W 47k ohm J
R726	032-0175-05	1/4W 47k ohm J
R727	116-5111-15	1/4W 510 ohm
R728	116-5111-15	1/4W 510 ohm
R729	116-5111-15	1/4W 510 ohm
R730	116-5111-15	1/4W 510 ohm
R732	033-0000-05	1/16W 0 ohm
R901	032-0210-55	1/10W 2.2k ohm F
R902	032-0221-74	1/16W 10k ohm 1%
R903	032-0221-74	1/16W 10k ohm 1%
R904	032-0221-74	1/16W 10k ohm 1%
R905	032-0221-74	1/16W 10k ohm 1%
R906	032-0221-74	1/16W 10k ohm 1%
R907	119-2421-15	1/10W 2.4k ohm
R915	033-0000-05	1/16W 0 ohm
R916	033-0000-05	1/16W 0 ohm
R923	119-0000-05	1/10W 0 ohm JW
R924	119-0000-05	1/10W 0 ohm JW
R934	033-0000-05	1/16W 0 ohm
R935	033-0000-05	1/16W 0 ohm
R936	033-0000-05	1/16W 0 ohm
R938	033-0000-05	1/16W 0 ohm
R1017	032-0221-51	1/16W 4.7k ohm F
R1018	033-2221-15	1/16W 2.2k ohm J
R1019	032-0221-74	1/16W 10k ohm 1%
R1020	032-0221-74	1/16W 10k ohm 1%
R1021	119-1021-15	1/10W 1k ohm
R1031	119-0000-05	1/10W 0 ohm JW
R1109	033-0000-05	1/16W 0 ohm
R1115	032-0221-10	1/16W 15k ohm F
R1118	033-3301-15	1/16W 33 ohm J
R1120	032-0221-74	1/16W 10k ohm 1%
R1121	032-0225-87	1/16W 75 ohm +/- 0.5%
R1124	033-0000-05	1/16W 0 ohm
R1125	033-0000-05	1/16W 0 ohm
R1126	032-0221-75	1/16W 47k ohm F
R1127	032-0221-75	1/16W 47k ohm F
R1128	032-0221-74	1/16W 10k ohm 1%
R1129	032-0221-74	1/16W 10k ohm 1%
R1130	033-0000-05	1/16W 0 ohm
R1131	033-0000-05	1/16W 0 ohm
R1132	032-0221-74	1/16W 10k ohm 1%
R1133	032-0221-74	1/16W 10k ohm 1%
R1140	032-0221-74	1/16W 10k ohm 1%
R1141	033-3301-15	1/16W 33 ohm J
R1143	032-0221-74	1/16W 10k ohm 1%
R1144	032-0221-74	1/16W 10k ohm 1%
R1145	032-0225-87	1/16W 75 ohm +/- 0.5%
R1146	119-0000-05	1/10W 0 ohm JW
R1202	032-0225-59	1/16W 4.3k ohm 0.5%

REF NO.	PART NO.	DESCRIPTION
R1204	032-0225-59	1/16W 4.3k ohm 0.5%
R1206	032-0225-59	1/16W 4.3k ohm 0.5%
R1208	032-0225-59	1/16W 4.3k ohm 0.5%
R1209	032-0221-08	1/16W 1k ohm F
R1210	032-0221-08	1/16W 1k ohm F
R1211	032-0221-08	1/16W 1k ohm F
R1212	032-0221-08	1/16W 1k ohm F
R1213	032-0140-80	1/10W 18k ohm F
R1214	032-0210-58	1/10W 12k ohm F
R1219	032-0221-74	1/16W 10k ohm 1%
R1221	032-0221-52	1/16W 1.8k ohm F
R1228	116-5621-15	1/4W 5.6k ohm
R1229	032-0175-04	1/4W 4.7k ohm J
R1230	033-3301-15	1/16W 33 ohm J
R1231	032-0209-50	1/4W 82 ohm D
R1232	032-0209-50	1/4W 82 ohm D
R1236	032-0221-72	1/16W 470 ohm F
R1237	032-0221-72	1/16W 470 ohm F
R1238	033-3931-15	1/16W 39k ohm J
R1239	032-0210-90	1/10W 100k ohm F
R1240	032-0221-10	1/16W 15k ohm F
R1241	119-1541-15	1/10W 150k ohm
R1242	032-0221-08	1/16W 1k ohm F
R1243	032-0221-08	1/16W 1k ohm F
R1244	032-0221-09	1/16W 33k ohm F
R1250	032-0221-51	1/16W 4.7k ohm F
R1251	032-0221-74	1/16W 10k ohm 1%
R1253	117-0000-05	1/8W 0 ohm JW
R1301	032-0221-99	1/16W 100 ohm 1%
R1302	119-0000-05	1/10W 0 ohm JW
R1303	032-0221-93	1/16W 470k ohm F
R1304	032-0221-06	1/16W 100k ohm F
R1305	033-0000-05	1/16W 0 ohm
R1308	032-0221-99	1/16W 100 ohm 1%
R1321	032-0221-93	1/16W 470k ohm F
R1324	032-0221-34	1/16W 51k ohm F
R1325	032-0140-95	1/10W 20k ohm F
R1326	032-0221-74	1/16W 10k ohm 1%
R1327	032-0221-99	1/16W 100 ohm 1%
R1330	032-0221-11	1/16W 5.6k ohm F
R1331	032-0210-55	1/10W 2.2k ohm F
R1347	032-0221-65	1/16W 68k ohm F
R1348	032-0221-61	1/16W 6.8k ohm F
R1349	032-0221-61	1/16W 6.8k ohm F
R1358	032-0221-50	1/16W 43k ohm F
R1359	033-0000-05	1/16W 0 ohm
R1360	032-0210-06	1/10W 8.2k ohm F
R1361	032-0221-56	1/16W 22k ohm F
R1362	032-0225-54	1/16W 75k ohm +/- 0.5%
R1363	032-0221-74	1/16W 10k ohm 1%

REF NO.	PART NO.	DESCRIPTION
R1365	033-3391-15	1/16W 3.3 ohm J
R1366	033-3391-15	1/16W 3.3 ohm J
R1368	033-0000-05	1/16W 0 ohm
R1369	033-0000-05	1/16W 0 ohm
R1370	033-0000-05	1/16W 0 ohm
R1371	033-4791-15	1/16W 4.7 ohm
R1373	032-0225-58	1/16W 20k ohm +/- 0.5%
R1374	033-0000-05	1/16W 0 ohm
R1375	032-0221-75	1/16W 47k ohm F
R1376	033-0000-05	1/16W 0 ohm
R1377	032-0221-07	1/16W 56k ohm F
R1378	033-0000-05	1/16W 0 ohm
R1379	033-0000-05	1/16W 0 ohm
R1380	033-0000-05	1/16W 0 ohm
R1381	033-0000-05	1/16W 0 ohm
R1382	033-4791-15	1/16W 4.7 ohm
R1384	032-0225-58	1/16W 20k ohm +/- 0.5%
R1385	032-0221-10	1/16W 15k ohm F
R1386	032-0221-06	1/16W 100k ohm F
R1388	032-0248-51	3/4W 20m ohm F
R1389	032-0248-51	3/4W 20m ohm F
R1390	119-0000-05	1/10W 0 ohm JW
R1393	032-0221-51	1/16W 4.7k ohm F
R1394	033-2221-15	1/16W 2.2k ohm J
R1395	032-0221-74	1/16W 10k ohm 1%
R1396	032-0221-74	1/16W 10k ohm 1%
R1397	032-0221-99	1/16W 100 ohm 1%
R1398	033-0000-05	1/16W 0 ohm
R1399	033-0000-05	1/16W 0 ohm
R1405	032-0221-06	1/16W 100k ohm F
R1406	033-0000-05	1/16W 0 ohm
R1407	032-0221-74	1/16W 10k ohm 1%
R1408	032-0221-83	1/16W 3.3k ohm F
R1409	032-0221-56	1/16W 22k ohm F
R1410	032-0221-51	1/16W 4.7k ohm F
R1411	033-5611-15	1/16W 560 ohm J
R1413	032-0221-74	1/16W 10k ohm 1%
R1414	033-5611-15	1/16W 560 ohm J
R1416	033-0000-05	1/16W 0 ohm
R1417	032-0221-06	1/16W 100k ohm F
R1418	119-0000-05	1/10W 0 ohm JW
R2101	032-0221-08	1/16W 1k ohm F
R2102	033-0000-05	1/16W 0 ohm
R2107	032-0221-75	1/16W 47k ohm F
R2126	032-0221-74	1/16W 10k ohm 1%
R2129	033-3301-15	1/16W 33 ohm J
R2130	032-0221-75	1/16W 47k ohm F
R2131	032-0221-75	1/16W 47k ohm F
R2132	032-0221-75	1/16W 47k ohm F
R2133	033-3301-15	1/16W 33 ohm J
R2134	033-3301-15	1/16W 33 ohm J
R2135	032-0221-74	1/16W 10k ohm 1%

REF NO.	PART NO.	DESCRIPTION
R2142	032-0221-74	1/16W 10k ohm 1%
R2143	032-0221-74	1/16W 10k ohm 1%
R2144	032-0221-75	1/16W 47k ohm F
R2146	032-0221-75	1/16W 47k ohm F
R2147	032-0221-75	1/16W 47k ohm F
R2156	033-0000-05	1/16W 0 ohm
R2159	033-0000-05	1/16W 0 ohm
R2160	033-0000-05	1/16W 0 ohm
R2162	032-0221-75	1/16W 47k ohm F
R2163	032-0221-75	1/16W 47k ohm F
R2164	032-0221-75	1/16W 47k ohm F
R2165	032-0221-75	1/16W 47k ohm F
R2166	032-0221-75	1/16W 47k ohm F
R2167	032-0221-75	1/16W 47k ohm F
R2170	033-3301-15	1/16W 33 ohm J
R2171	032-0221-99	1/16W 100 ohm 1%
R2172	032-0221-99	1/16W 100 ohm 1%
R2173	032-0221-99	1/16W 100 ohm 1%
R2174	033-0000-05	1/16W 0 ohm
R2175	032-0221-75	1/16W 47k ohm F
R2179	032-0221-93	1/16W 470k ohm F
R2181	033-2221-15	1/16W 2.2k ohm J
R2182	032-0221-72	1/16W 470 ohm F
R2184	032-0221-75	1/16W 47k ohm F
R2185	032-0221-08	1/16W 1k ohm F
R2187	033-0000-05	1/16W 0 ohm
RN107	050-0156-59	1/16W 33 ohm x4
RN108	050-0156-56	1/16W 4.7k ohm x4
RN109	050-0156-52	1/16W 100 ohm x4
RN110	050-0156-52	1/16W 100 ohm x4
RN111	050-0156-52	1/16W 100 ohm x4
RN112	050-0156-52	1/16W 100 ohm x4
RN204	050-0156-64	1/16W 100k ohm x4
RN902	050-0156-53	1/16W 0 ohm x4
RN903	050-0156-53	1/16W 0 ohm x4
TH101	002-0315-00	TN10-3U153JT
TH1201	002-0328-90	miniSMDC050F-2
VR1201	001-9213-50	EZJZ1V270EA
VR1202	001-9213-50	EZJZ1V270EA
VR1203	001-9213-50	EZJZ1V270EA
X101	061-3614-90	NX3225GA 12.8M
X201	061-3589-90	41.6MHz
ZD501	001-4305-19	UDZSTE-17 5.1B
ZD701	001-0529-35	MA8062-M
ZD702	001-0529-35	MA8062-M
ZD703	001-4305-32	UDZSTE-17 18B
ZD901	001-0529-26	MA8047-M
ZD903	001-0529-47	MA8091-M
ZD1201	----------	SM5S22A-HE3/2D (Thermal pad) (491290-001)
ZD1301	001-0529-32	MA8056-M
PWB	039-4616-00	PWB(WITHOUT COMPONENTS)

CPU PWB(B4) section

REF NO.	PART NO.	DESCRIPTION
C101	045-1011-50	100pFJ CH
C102	046-1032-78	0.01uF K B
C103	046-1032-78	0.01uF K B
C104	046-1032-78	0.01uF K B
C109	046-1042-78	0.1uF K B
C110	046-1042-78	0.1uF K B
C111	046-1042-78	0.1uF K B
C112	046-1042-78	0.1uF K B
C113	046-1042-78	0.1uF K B
C115	046-1042-78	0.1uF K B
C117	046-1042-78	0.1uF K B
C120	046-1042-78	0.1uF K B
C121	046-1042-78	0.1uF K B
C122	046-1042-78	0.1uF K B
C123	046-1042-78	0.1uF K B
C126	046-1042-78	0.1uF K B
C129	046-1042-78	0.1uF K B
C130	046-1042-78	0.1uF K B
C131	046-1042-78	0.1uF K B
C132	046-1042-78	0.1uF K B
C133	046-1042-78	0.1uF K B
C134	046-1042-78	0.1uF K B
C135	046-1042-78	0.1uF K B
C136	046-1042-78	0.1uF K B
C137	046-1042-78	0.1uF K B
C140	046-1042-78	0.1uF K B
C142	046-1042-78	0.1uF K B
C144	046-1042-78	0.1uF K B
C145	046-1042-78	0.1uF K B
C146	046-1042-78	0.1uF K B
C148	046-1042-78	0.1uF K B
C150	046-1042-78	0.1uF K B
C153	046-1042-78	0.1uF K B
C154	046-1042-78	0.1uF K B
C161	046-1042-78	0.1uF K B
C162	046-1042-78	0.1uF K B
C163	046-1042-78	0.1uF K B
C166	046-1042-78	0.1uF K B
C167	046-1042-78	0.1uF K B
C168	046-1042-78	0.1uF K B
C169	046-1042-78	0.1uF K B
C170	046-1042-78	0.1uF K B
C171	046-1042-78	0.1uF K B
C172	046-1042-78	0.1uF K B
C173	046-1042-78	0.1uF K B
C174	046-1042-78	0.1uF K B
C175	046-1042-78	0.1uF K B
C176	046-1042-78	0.1uF K B
C177	046-1042-78	0.1uF K B
C178	046-1042-78	0.1uF K B
C179	046-1042-78	0.1uF K B
C180	046-1042-78	0.1uF K B
C181	046-1042-78	0.1uF K B
C182	043-6400-90	16V 4.7uF K
C183	043-6400-90	16V 4.7uF K
C184	043-6400-90	16V 4.7uF K
C185	043-6400-90	16V 4.7uF K
C186	046-1042-78	0.1uF K B
C187	046-1042-78	0.1uF K B
C188	046-1042-78	0.1uF K B
C189	046-1042-78	0.1uF K B
C190	046-1042-78	0.1uF K B
C191	046-1042-78	0.1uF K B
C192	046-1042-78	0.1uF K B
C193	046-1042-78	0.1uF K B
C194	046-1042-78	0.1uF K B
C195	046-1042-78	0.1uF K B
C196	046-1042-78	0.1uF K B
C197	168-1062-98	10uF K
C198	043-7200-90	6.3V 47uF
C201	046-1042-78	0.1uF K B
C202	046-1042-78	0.1uF K B
C203	046-1042-78	0.1uF K B

REF NO.	PART NO.	DESCRIPTION
C204	045-1011-50	100pFJ CH
C205	045-1011-50	100pFJ CH
C301	046-1042-78	0.1uF K B
C302	046-1042-78	0.1uF K B
C303	046-1032-78	0.01uF K B
C304	046-1042-78	0.1uF K B
C305	168-1062-98	10uF K
C306	046-1042-78	0.1uF K B
C307	046-1032-78	0.01uF K B
C308	046-1042-78	0.1uF K B
C309	046-1042-78	0.1uF K B
C310	046-1042-78	0.1uF K B
C311	046-1042-78	0.1uF K B
C312	046-1042-78	0.1uF K B
C313	043-4200-90	6.3V 2.2uF
C314	043-4200-90	6.3V 2.2uF
C315	043-4200-90	6.3V 2.2uF
C316	043-4200-90	6.3V 2.2uF
C317	043-4200-90	6.3V 2.2uF
C318	043-4200-90	6.3V 2.2uF
C319	043-4200-90	6.3V 2.2uF
C320	043-4200-90	6.3V 2.2uF
C321	043-4200-90	6.3V 2.2uF
C322	043-7201-90	6.3V 100uF
C323	043-7201-90	6.3V 100uF
C324	043-7201-90	6.3V 100uF
C325	043-7201-90	6.3V 100uF
C326	043-7201-90	6.3V 100uF
C327	046-1042-78	0.1uF K B
C328	046-1042-78	0.1uF K B
C329	046-1042-78	0.1uF K B
C330	046-1042-78	0.1uF K B
C331	046-1042-78	0.1uF K B
C332	046-1042-78	0.1uF K B
C333	046-1042-78	0.1uF K B
C334	046-1042-78	0.1uF K B
C335	046-1042-78	0.1uF K B
C336	046-1042-78	0.1uF K B
C337	046-1042-78	0.1uF K B
C338	046-1042-78	0.1uF K B
C339	046-1042-78	0.1uF K B
C340	043-0603-90	16V 10uF
C341	043-0603-90	16V 10uF
C342	046-1042-78	0.1uF K B
C343	046-1042-78	0.1uF K B
C344	046-1042-78	0.1uF K B
C345	043-0603-90	16V 10uF
C346	046-1042-78	0.1uF K B
C347	043-0603-90	16V 10uF
C348	043-0603-90	16V 10uF
C349	043-4200-90	6.3V 2.2uF
C350	043-4200-90	6.3V 2.2uF
C351	043-4200-90	6.3V 2.2uF
C352	043-4200-90	6.3V 2.2uF
C353	043-4200-90	6.3V 2.2uF
C354	043-4200-90	6.3V 2.2uF
C355	046-1042-78	0.1uF K B
C356	046-1032-78	0.01uF K B
C357	046-1042-78	0.1uF K B
C358	043-4200-90	6.3V 2.2uF
C359	046-1042-78	0.1uF K B
C360	046-1032-78	0.01uF K B
C361	046-1042-78	0.1uF K B
C362	043-0603-90	16V 10uF
C363	043-0603-90	16V 10uF
C365	043-4200-90	6.3V 2.2uF
C367	043-4200-90	6.3V 2.2uF
C368	043-4200-90	6.3V 2.2uF
C369	043-4200-90	6.3V 2.2uF
C372	046-1042-78	0.1uF K B
C373	046-1042-78	0.1uF K B
C374	046-1042-78	0.1uF K B
C375	043-0603-90	16V 10uF

REF NO.	PART NO.	DESCRIPTION
C376	046-1042-78	0.1uF K B
C377	046-1042-78	0.1uF K B
C378	046-1042-78	0.1uF K B
C379	046-1042-78	0.1uF K B
C380	042-4035-91	6.3V 100uF
C381	046-1042-78	0.1uF K B
C382	046-1042-78	0.1uF K B
C383	046-1042-78	0.1uF K B
C401	046-1042-78	0.1uF K B
C402	045-1096-50	1pF 50V
C403	046-1042-78	0.1uF K B
C404	045-2096-50	2pF +/-0.25pF CH
C405	046-1042-78	0.1uF K B
C406	046-1042-78	0.1uF K B
C408	046-1032-78	0.01uF K B
C418	046-1032-78	0.01uF K B
C420	043-4306-90	1uF
C422	165-4763-15	6.3V 47uF
C423	165-4763-15	6.3V 47uF
C505	046-1042-78	0.1uF K B
C506	043-0605-90	10V 2.2uF
C507	046-1042-78	0.1uF K B
C508	046-1042-78	0.1uF K B
C509	043-0605-90	10V 2.2uF
C510	046-1042-78	0.1uF K B
C511	046-1042-78	0.1uF K B
C512	046-1042-78	0.1uF K B
C513	046-1042-78	0.1uF K B
C514	046-1042-78	0.1uF K B
C515	046-1042-78	0.1uF K B
C516	046-1042-78	0.1uF K B
C517	043-0605-90	10V 2.2uF
C518	046-1042-78	0.1uF K B
C519	168-1052-78	16V 1uF K
C520	168-1052-78	16V 1uF K
C522	043-7402-90	16V 22uF
C523	043-0605-90	10V 2.2uF
C524	043-0605-90	10V 2.2uF
C525	043-0605-90	10V 2.2uF
C526	043-0605-90	10V 2.2uF
C527	043-0605-90	10V 2.2uF
C528	043-0605-90	10V 2.2uF
C529	043-0605-90	10V 2.2uF
C530	045-1801-50	18pFJ CH
C531	042-4035-94	16V 22uF
C601	046-1042-78	0.1uF K B
C602	045-2201-50	22pFJ CH
C603	AAZ0292	10V 10uF
C604	043-4402-90	16V 1uF
C628	046-1042-78	0.1uF K B
C635	043-4306-90	1uF
C636	046-1042-78	0.1uF K B
C637	043-6400-90	16V 4.7uF K
C646	045-1007-50	10 +/-0.5pF CH
C647	043-4306-90	1uF
C648	043-4306-90	1uF
C651	043-4306-90	1uF
C652	043-0605-90	10V 2.2uF
C653	043-4306-90	1uF
C654	043-4306-90	1uF
C655	043-0602-90	10uF
C658	043-4306-90	1uF
C659	043-4306-90	1uF
C660	043-0602-90	10uF
C661	166-3096-50	3pF +/-0.25pF CK
C662	045-4701-50	47pF CH
C663	043-4700-95	50V 33pF
C705	168-3332-78	0.033uF K
C711	043-4402-90	16V 1uF
C713	165-2263-15	6.3V 22uF
C714	043-4306-90	1uF
C716	043-4402-90	16V 1uF
C717	165-2263-15	6.3V 22uF

REF NO.	PART NO.	DESCRIPTION
C718	165-2263-15	6.3V 22uF
C719	043-4402-90	16V 1uF
C722	043-4306-90	1uF
C723	046-1042-78	0.1uF K B
C724	046-1042-78	0.1uF K B
C725	046-1042-78	0.1uF K B
C726	046-1042-78	0.1uF K B
C727	046-1042-78	0.1uF K B
C728	046-1042-78	0.1uF K B
C729	046-1042-78	0.1uF K B
C730	046-1042-78	0.1uF K B
C731	168-3332-78	0.033uF K
C732	043-4306-90	1uF
C735	043-4306-90	1uF
C736	168-3332-78	0.033uF K
C740	046-3332-78	0.033uF K B
C743	046-1022-58	50V 1000pF
C748	043-4306-90	1uF
C749	043-4306-90	1uF
C750	043-4306-90	1uF
C751	043-4306-90	1uF
C801	ADZ0265	35V 47uF
C802	043-0576-90	50V 10uF
C803	043-6705-90	50V 1uF
C804	045-1011-50	100pFJ CH
C805	043-0570-90	16V 2.2uF K
C806	043-0574-90	25V 1.0uF
C807	043-0574-90	25V 1.0uF
C808	043-0576-90	50V 10uF
C809	043-5709-90	50V 1uF K
C810	046-6832-78	0.068uF K B
C811	043-7504-90	22uF
C812	045-3311-50	330pFJ CH
C813	043-0604-90	25V 10uF B
C814	168-8232-78	0.082uF K
C815	168-5632-78	16V 0.056uF K
C816	043-0603-90	16V 10uF
C817	043-0603-90	16V 10uF
C818	043-6705-90	50V 1uF
C821	168-2232-55	0.022uF K
C822	046-6832-78	0.068uF K B
C823	168-4732-58	50V 0.047uF K
C824	AAZ0261	25V 1uF
C825	043-7707-90	50V 10uF
C826	046-4732-78	0.047uF K B
C827	046-1042-78	0.1uF K B
C829	043-5709-90	50V 1uF K
C830	043-5709-90	50V 1uF K
C833	045-1011-50	100pFJ CH
C834	045-1011-50	100pFJ CH
C838	ADZ0265	35V 47uF
C842	043-5709-90	50V 1uF K
C843	045-1011-50	100pFJ CH
C846	ADZ0265	35V 47uF
C847	ADZ0265	35V 47uF
C848	045-1011-50	100pFJ CH
C849	168-1022-55	1000pF K
C850	168-1042-38	50V 0.1uF K
C851	168-1042-38	50V 0.1uF K
C852	168-1042-38	50V 0.1uF K
C853	046-1042-78	0.1uF K B
C854	ADZ0265	35V 47uF
C895	046-1022-58	50V 1000pF
C896	043-5709-90	50V 1uF K
C897	043-5709-90	50V 1uF K
C898	043-5709-90	50V 1uF K
C901	046-1042-78	0.1uF K B
C904	043-0574-90	25V 1.0uF
C907	043-4402-90	16V 1uF
C914	046-2232-78	0.022uF K B
C915	046-2232-78	0.022uF K B
C916	168-2232-55	0.022uF K
C917	AAZ0261	25V 1uF
C918	043-0605-90	10V 2.2uF
C920	168-1052-78	16V 1uF K

REF NO.	PART NO.	DESCRIPTION
C921	168-2242-58	0.22uF K
C1003	046-1042-78	0.1uF K B
C1004	043-0605-90	10V 2.2uF
C1005	043-0603-90	16V 10uF
C1006	046-1042-78	0.1uF K B
C1007	046-1042-78	0.1uF K B
C1008	043-0603-90	16V 10uF
C1009	168-4742-78	0.47uF K
C1011	043-0605-90	10V 2.2uF
C1014	165-4763-15	6.3V 47uF
C1015	046-1042-78	0.1uF K B
C1016	046-1042-78	0.1uF K B
C1101	043-4306-90	1uF
C1102	043-4306-90	1uF
C1103	043-4306-90	1uF
C1104	043-4306-90	1uF
C1105	043-4306-90	1uF
C1106	045-9097-50	9pF +/-0.5pF CH
C1107	045-9097-50	9pF +/-0.5pF CH
C1109	043-4306-90	1uF
C1110	043-4306-90	1uF
C1111	043-4306-90	1uF
C1112	043-4306-90	1uF
C1113	043-4402-90	16V 1uF
C1114	043-4402-90	16V 1uF
C1115	042-4057-90	16V 47uF
C1116	042-4057-90	16V 47uF
C1117	043-4402-90	16V 1uF
C1118	042-4035-95	16V 100uF
C1120	168-1052-78	16V 1uF K
C1121	168-1052-78	16V 1uF K
C1122	046-1042-78	0.1uF K B
C1124	042-4035-96	6.3V 47uF
C1126	043-7402-90	16V 22uF
C1201	168-3312-55	330pF K
C1202	045-1801-50	18pFJ CH
C1204	166-1011-50	100pF CH
C1212	168-1042-38	50V 0.1uF K
C1213	168-1042-38	50V 0.1uF K
C1214	043-5600-90	0.10uF
C1215	046-1032-78	0.01uF K B
C1216	046-1042-78	0.1uF K B
C1218	046-1042-78	0.1uF K B
C1219	168-3322-55	3300pF K
C1224	046-1032-78	0.01uF K B
C1225	043-4402-90	16V 1uF
C1226	043-0603-90	16V 10uF
C1227	043-5709-90	50V 1uF K
C1228	046-1042-78	0.1uF K B
C1230	168-3312-55	330pF K
C1231	168-2222-55	2200pF K
C1232	168-2222-55	2200pF K
C1233	168-2222-55	2200pF K
C1234	168-2222-55	2200pF K
C1303	043-7504-90	22uF
C1304	046-3322-58	3300pF K B
C1310	043-7504-90	22uF
C1311	046-3322-58	3300pF K B
C1312	166-6097-50	6pF +/-0.5pF CH
C1313	166-6097-50	6pF +/-0.5pF CH
C1314	043-0567-90	25V 22uF
C1350	166-6097-50	6pF +/-0.5pF CH
C1351	166-6097-50	6pF +/-0.5pF CH
C1352	043-0567-90	25V 22uF
C1355	043-4402-90	16V 1uF
C1356	043-4402-90	16V 1uF
C1357	043-4402-90	16V 1uF
C1358	043-4402-90	16V 1uF
C1360	168-1052-78	16V 1uF K
C1361	043-0603-90	16V 10uF
C1401	168-3322-55	3300pF K
C1402	168-3322-55	3300pF K
C1403	168-3322-55	3300pF K
C1404	046-1042-78	0.1uF K B
C1501	043-7402-90	16V 22uF

REF NO.	PART NO.	DESCRIPTION
C1502	168-1052-78	16V 1uF K
C1503	043-7200-90	6.3V 47uF
C1506	046-1022-58	50V 1000pF
C1507	046-4732-78	0.047uF K B
C1508	045-1007-50	10 +/-0.5pF CH
C1509	046-1042-78	0.1uF K B
C1510	043-7201-90	6.3V 100uF
C1511	168-1052-78	16V 1uF K
C1512	043-0559-90	6.3V 22uF
C1513	043-0559-90	6.3V 22uF
C1515	046-1022-58	50V 1000pF
C1516	046-4732-78	0.047uF K B
C1517	045-1007-50	10 +/-0.5pF CH
C1518	046-1042-78	0.1uF K B
C1522	043-7707-90	50V 10uF
C1523	043-5709-90	50V 1uF K
C1524	043-0604-90	25V 10uF B
C1525	168-1052-78	16V 1uF K
C1526	043-7400-90	16V 22uF
C1527	168-1052-78	16V 1uF K
C1528	046-1022-58	50V 1000pF
C1529	168-1052-78	16V 1uF K
C1530	168-1052-78	16V 1uF K
C1532	168-1052-78	16V 1uF K
C1534	168-1052-78	16V 1uF K
C1535	043-0559-90	6.3V 22uF
C1539	168-1062-98	10uF K
C1541	168-1062-98	10uF K
C1542	046-1042-78	0.1uF K B
C1543	042-4035-92	6.3V 220uF
C1544	046-1032-78	0.01uF K B
C1545	046-1032-78	0.01uF K B
C1546	168-1052-78	16V 1uF K
C1547	168-1052-78	16V 1uF K
C1548	043-0603-90	16V 10uF
C1549	043-6400-90	16V 4.7uF K
C1550	046-1042-78	0.1uF K B
C1551	043-0603-90	16V 10uF
C1552	043-6400-90	16V 4.7uF K
C1553	046-1042-78	0.1uF K B
C1554	043-7200-90	6.3V 47uF
C1555	043-0605-90	10V 2.2uF
C1558	042-4035-95	16V 100uF
C1559	042-4046-92	35V 100uF
C1567	046-1042-78	0.1uF K B
C1568	043-0603-90	16V 10uF
C1569	178-1062-88	10uF
C1570	045-2201-50	22pFJ CH
C1571	165-4763-35	16V 47uF
C1573	165-4763-35	16V 47uF
C1575	165-4763-15	6.3V 47uF
C1576	046-1042-78	0.1uF K B
C1577	046-1042-78	0.1uF K B
C1578	165-4763-15	6.3V 47uF
C1579	046-1042-78	0.1uF K B
C1580	165-4763-15	6.3V 47uF
C1582	165-2263-35	16V 22uF
C1585	043-4306-90	1uF
C1586	043-4306-90	1uF
C1587	043-4306-90	1uF
C1589	045-1011-50	100pFJ CH
C1590	045-1011-50	100pFJ CH
C1591	046-1022-58	50V 1000pF
C1592	043-7300-90	10V 47uF
C1593	043-4306-90	1uF
C1601	046-1042-78	0.1uF K B
C1602	046-1042-78	0.1uF K B
C1603	043-0603-90	16V 10uF
C1605	046-1042-78	0.1uF K B
C1606	046-1042-78	0.1uF K B
C1607	046-1042-78	0.1uF K B
C1610	043-0602-90	10uF
C1611	046-1042-78	0.1uF K B
C1612	165-4763-15	6.3V 47uF
C1702	043-0605-91	6.3V 4.7uF

REF NO.	PART NO.	DESCRIPTION
C1703	043-0519-50	0.1uF
C1705	043-0605-91	6.3V 4.7uF
C1706	043-0605-91	6.3V 4.7uF
C1707	046-1042-78	0.1uF K B
C1708	046-1042-78	0.1uF K B
C1709	043-0605-91	6.3V 4.7uF
C1713	043-0605-91	6.3V 4.7uF
C1714	043-0605-91	6.3V 4.7uF
C1716	046-1042-78	0.1uF K B
C1717	046-1042-78	0.1uF K B
C1718	046-1042-78	0.1uF K B
C1719	046-1042-78	0.1uF K B
C1720	046-1042-78	0.1uF K B
C1721	042-4035-98	16V 47uF
C1722	042-4035-98	16V 47uF
C3811	043-5709-90	50V 1uF K
C3815	042-4046-92	35V 100uF
C3819	043-7700-90	50V 4.7uF
C3821	043-0568-90	25V 2.2uF
D602	001-2630-90	1SS420-TPL3,F
D801	001-2620-90	RB060L-40
D802	001-2620-90	RB060L-40
D803	001-2620-90	RB060L-40
D804	001-2630-90	1SS420-TPL3,F
D805	001-2630-90	1SS420-TPL3,F
D806	001-2660-90	RB050L-60DDTE25
D1001	001-2630-90	1SS420-TPL3,F
D1002	001-2630-90	1SS420-TPL3,F
D1003	001-2630-90	1SS420-TPL3,F
D1101	001-0516-90	MA111
D1102	001-0516-90	MA111
D1104	001-4338-50	RClamp0584J.TCT
D1105	001-4338-50	RClamp0584J.TCT
D1106	001-4338-50	RClamp0584J.TCT
D1203	001-0516-90	MA111
D1204	001-2412-90	RR264M-400
D1205	001-2412-90	RR264M-400
D1206	001-2403-90	M1F60
D1211	001-2630-90	1SS420-TPL3,F
D1212	001-0516-90	MA111
D1301	001-2410-90	D3F60
D1401	001-4910-90	DF5A6.8F-L,F
D1402	001-4910-90	DF5A6.8F-L,F
D1602	001-1325-90	1SS387
D1701	001-4338-50	RClamp0584J.TCT
FC601	060-2234-90	WFC72F1575CH
IC101	----------	R8A77930DB21BG #U0(SoC)(BGA) (044400-052)
IC102	----------	MT41K256M16HA 125IT:E(BGA) (DDR3-SDRAM) (934210-051)
IC103	----------	MT41K256M16HA 125IT:E(BGA) (DDR3-SDRAM) (934210-051)
IC106	----------	S25FL127SABMFI 000(SPI-FLASH) (985500-051)
IC201	051-5488-90	NJU7707F03A1-TE2
IC202	051-7547-90	SN74LVC1G07DCKR
IC203	051-7547-90	SN74LVC1G07DCKR
IC401	051-6934-90	MFI341S2313
IC402	051-6226-41	CY25404ZXI-241T
IC501	----------	MTFC8GLGDQ-ATI Z (MultiMediaCard controller) (FBGA) (986000-051)

REF NO.	PART NO.	DESCRIPTION
IC606	051-6945-90	NCP380HSNAJAAT 1G
IC607	----------	UBX-G7020-KT-C1010 A (GPS Receiver) (QFN package) (462990-051)
IC703	051-6479-00	AK8858VQ
IC801	----------	OZ528ILN-B1-0-TR (Thermal pad) (394090-051)
IC802	----------	BD9465MUV-ME2 (LED driver) (QFN) (611690-051)
IC803	051-7221-48	TC7SZ04FU
IC804	----------	BD00D0AWHFP-TR (Voltage regulator) (Thermal pad) (370990-051)
IC901	051-7202-90	MC74VHC1G32DFT2G
IC902	051-3079-90	NJM2742V
IC903	051-7222-60	MC74VHC1G08DFT2G
IC1001	051-6718-90	AK5357VT-E2
IC1003	051-7237-28	TC7WH08FU
IC1004	051-7202-90	MC74VHC1G32DFT2G
IC1101	----------	MN864779CTUB (HDMI Rx IC) (BGA type) (649200-051)
IC1102	----------	BD00IA5EEFJ-ME2 (LDO REG) (Exposed Pad) (376390-051)
IC1103	051-7222-60	MC74VHC1G08DFT2G
IC1202	051-7281-60	MC74VHC1G14DFT2G
IC1203	051-3407-90	TA75S393F
IC1204	051-6663-80	TJA1042T/3,118
IC1205	051-7262-48	TC7WH14FU-TE12L,F
IC1302	051-3776-90	NJM2815GM1-51A
IC1304	051-3776-70	NJM2816GM1-51A (TE2)
IC1306	----------	TPS2546QRTER Q1(Thermal pad) (696090-051)
IC1401	051-7563-90	NLV27WZ16DFT2G
IC1501	051-3785-90	BD35395FJ-ME2
IC1502	----------	SC187ULTRT (Thermal pad) (363690-051)
IC1503	----------	SC187ULTRT (Thermal pad) (363690-051)
IC1504	051-3707-80	S-1133B00-U5T1U
IC1505	----------	SC183CULTRT (PAD) (358800-051)
IC1506	051-3774-90	NJM11100F1
IC1507	051-3761-90	BD00HC0EEFJ-ME2
IC1508	051-3774-90	NJM11100F1
IC1511	----------	TLV62065TDSGR Q1 (Step Down Converter) (SON Package) (366490-051)

REF NO.	PART NO.	DESCRIPTION
IC1601	CUZ0502	TC7WH123FKF
IC1603	051-7202-90	MC74VHC1G32DFT2G
IC1604	051-7222-60	MC74VHC1G08DFT2G
IC1605	051-7202-90	MC74VHC1G32DFT2G
IC1606	051-7222-60	MC74VHC1G08DFT2G
IC1609	051-7560-90	TC7SH17FU (TE85L,F)
IC1702	----------	DS90UB301QSQ/NOPB(LVDS) (Thermal pad) (802190-051)
J401	074-2255-09	FH33-9S-0.5SH 9P
J1001	074-2306-30	80P
J1002	074-2306-90	40P
J1201	074-4017-24	24P
J1301	074-4099-00	MX49004HQ1
J1304	074-4099-30	5P
J1701	074-4126-00	MX48A02HQ6
L201	010-3114-56	MMZ1005Y301CT
L301	BMZ0211	BLM18PG121SN1D
L302	BMZ0211	BLM18PG121SN1D
L303	BMZ0211	BLM18PG121SN1D
L304	BMZ0211	BLM18PG121SN1D
L305	BMZ0211	BLM18PG121SN1D
L306	BMZ0211	BLM18PG121SN1D
L307	BMZ0211	BLM18PG121SN1D
L308	BMZ0211	BLM18PG121SN1D
L401	BMZ0211	BLM18PG121SN1D
L402	BMZ0211	BLM18PG121SN1D
L502	BMZ0211	BLM18PG121SN1D
L605	BMZ0221	BLM15AG601SN1D
L606	010-3101-66	MLK1005S22NJT
L608	119-0000-05	1/10W 0 ohm JW
L610	010-3113-90	1k ohm/100MHz
L611	010-3127-91	220 ohm/100MHz
L612	010-3101-61	8.2nH
L701	010-3127-94	BLM18PG331SN1D
L702	010-3127-94	BLM18PG331SN1D
L703	010-3127-94	BLM18PG331SN1D
L706	010-3103-62	600 ohm/100MHz
L707	010-3103-62	600 ohm/100MHz
L801	010-3057-92	47uH 620mA
L802	010-3514-90	15uH M
L803	010-3057-92	47uH 620mA
L804	010-3057-92	47uH 620mA
L805	010-3550-50	33uH
L806	010-3550-50	33uH
L901	010-3127-91	220 ohm/100MHz
L903	010-3127-91	220 ohm/100MHz
L904	010-3127-91	220 ohm/100MHz
L905	BMZ0211	BLM18PG121SN1D
L906	BMZ0211	BLM18PG121SN1D
L907	BMZ0211	BLM18PG121SN1D

REF NO.	PART NO.	DESCRIPTION
L908	BMZ0211	BLM18PG121SN 1D
L909	010-3127-91	220 ohm/100MHz
L910	010-3127-91	220 ohm/100MHz
L1003	010-3127-91	220 ohm/100MHz
L1004	BMZ0211	BLM18PG121SN 1D
L1010	010-3114-53	MMZ1005S601CT
L1011	010-3114-53	MMZ1005S601CT
L1014	010-3114-53	MMZ1005S601CT
L1015	010-3114-53	MMZ1005S601CT
L1101	BMZ0211	BLM18PG121SN 1D
L1102	BMZ0211	BLM18PG121SN 1D
L1103	BMZ0211	BLM18PG121SN 1D
L1104	BMZ0211	BLM18PG121SN 1D
L1105	BMZ0211	BLM18PG121SN 1D
L1201	010-2285-70	120 ohm/100MHz
L1203	010-2285-70	120 ohm/100MHz
L1204	010-2285-70	120 ohm/100MHz
L1205	010-2285-70	120 ohm/100MHz
L1206	010-2285-70	120 ohm/100MHz
L1207	010-2285-70	120 ohm/100MHz
L1208	010-3458-51	LBC2518T220MV
L1301	BEZ0122	DLP11SN900HL2L
L1304	BEZ0122	DLP11SN900HL2L
L1306	010-3104-54	600 ohm/100MHz
L1501	010-3564-50	1.5uH
L1502	010-3564-50	1.5uH
L1504	010-3108-56	100MHz
L1508	010-3548-50	2.2uH
L1510	010-3547-51	1.0uH
L1512	BMZ0211	BLM18PG121SN 1D
L1513	010-3108-56	100MHz
L1514	010-3108-56	100MHz
L1515	BMZ0211	BLM18PG121SN 1D
L1516	BMZ0211	BLM18PG121SN 1D
L1517	BMZ0211	BLM18PG121SN 1D
L1701	010-3124-97	1000 ohm/100MHz
L1702	BEZ0122	DLP11SN900HL2L
L1703	010-3124-97	1000 ohm/100MHz
NF301	060-3138-90	NFM18PC105R0J 3D
NF302	060-3138-90	NFM18PC105R0J 3D
NF303	060-3138-90	NFM18PC105R0J 3D
NF304	060-3138-90	NFM18PC105R0J 3D
NF305	060-3138-90	NFM18PC105R0J 3D
NF306	060-3138-90	NFM18PC105R0J 3D
NF307	060-3138-90	NFM18PC105R0J 3D
NF308	060-3138-90	NFM18PC105R0J 3D
NF309	060-3138-90	NFM18PC105R0J 3D
NF310	060-3138-90	NFM18PC105R0J 3D
NF311	060-3138-90	NFM18PC105R0J 3D
NF312	060-3138-90	NFM18PC105R0J 3D
NF313	060-3130-91	NFM21PC475B1A 3D

REF NO.	PART NO.	DESCRIPTION
NF314	060-3138-90	NFM18PC105R0J 3D
NF315	060-3138-90	NFM18PC105R0J 3D
NF316	060-3138-90	NFM18PC105R0J 3D
NF317	060-3138-90	NFM18PC105R0J 3D
NF318	060-3138-90	NFM18PC105R0J 3D
NF319	060-3138-90	NFM18PC105R0J 3D
NF320	060-3138-90	NFM18PC105R0J 3D
NF321	060-3138-90	NFM18PC105R0J 3D
NF1101	010-3612-90	EXC28CG900U
NF1102	010-3612-90	EXC28CG900U
NF1201	010-3609-90	DLW43SH510XK2L
P601	092-2249-00	ANT-RECEPT
P901	076-3072-90	90P
P1401	076-6023-07	7P
P1501	076-6021-60	10P
Q401	125-2046-91	DTC114EUBTL
Q501	191-1197-50	2SB1197K Q,R
Q502	125-2046-91	DTC114EUBTL
Q801	CAZ0331	2SC4081T106R
Q802	190-1576-60	2SA1576UBTL
Q804	125-2027-92	DTC124EUA
Q805	125-0021-92	DTA124EUA
Q807	190-1576-60	2SA1576UBTL
Q808	CAZ0331	2SC4081T106R
Q809	125-2027-91	DTC114EUA
Q810	CAZ0331	2SC4081T106R
Q811	190-1576-60	2SA1576UBTL
Q812	125-8032-90	RVQ040N05 TR
Q813	125-8062-90	RHU002N06FRAT 106
Q814	125-8062-90	RHU002N06FRAT 106
Q815	125-8062-90	RHU002N06FRAT 106
Q816	125-8062-90	RHU002N06FRAT 106
Q817	125-8062-90	RHU002N06FRAT 106
Q818	125-8062-90	RHU002N06FRAT 106
Q819	192-5810-00	2SC5810 TE12L
Q820	125-2046-91	DTC114EUBTL
Q821	125-8062-90	RHU002N06FRAT 106
Q901	125-2046-97	DTC114YUB TL
Q902	190-1576-60	2SA1576UBTL
Q906	125-2027-91	DTC114EUA
Q907	125-2027-91	DTC114EUA
Q908	125-2027-91	DTC114EUA
Q1004	125-0035-91	DTA114EUBTL
Q1005	125-2046-91	DTC114EUBTL
Q1101	125-2046-91	DTC114EUBTL
Q1102	125-0035-91	DTA114EUBTL
Q1201	CAZ0331	2SC4081T106R
Q1202	CAZ0331	2SC4081T106R
Q1205	190-1576-60	2SA1576UBTL
Q1206	125-0035-91	DTA114EUBTL
Q1207	CAZ0331	2SC4081T106R
Q1210	125-9028-90	UMX1N-TN
Q1212	CAZ0331	2SC4081T106R
Q1213	CAZ0331	2SC4081T106R
Q1214	190-1576-60	2SA1576UBTL
Q1503	192-4116-00	2SC4116
Q1504	125-7016-90	RZQ050P01TR
Q1604	125-2046-91	DTC114EUBTL
Q4801	125-2027-92	DTC124EUA
Q4804	CAZ0331	2SC4081T106R

REF NO.	PART NO.	DESCRIPTION
Q4805	125-2027-91	DTC114EUA
R101	032-0221-75	1/16W 47k ohm F
R104	032-0221-90	1/16W 240 ohm 1%
R113	033-0000-05	1/16W 0 ohm
R126	032-0221-90	1/16W 240 ohm 1%
R127	032-0221-90	1/16W 240 ohm 1%
R128	032-0221-00	1/16W 68 ohm 1%
R148	032-0221-99	1/16W 100 ohm 1%
R153	032-0221-00	1/16W 68 ohm 1%
R155	033-2701-15	1/16W 27 ohm J
R156	033-2701-15	1/16W 27 ohm J
R157	033-2701-15	1/16W 27 ohm J
R158	033-2701-15	1/16W 27 ohm J
R159	033-2701-15	1/16W 27 ohm J
R160	033-2701-15	1/16W 27 ohm J
R161	033-2701-15	1/16W 27 ohm J
R162	033-2701-15	1/16W 27 ohm J
R163	033-2701-15	1/16W 27 ohm J
R164	033-2701-15	1/16W 27 ohm J
R165	033-2701-15	1/16W 27 ohm J
R166	033-2701-15	1/16W 27 ohm J
R167	033-2701-15	1/16W 27 ohm J
R168	033-2701-15	1/16W 27 ohm J
R169	033-2701-15	1/16W 27 ohm J
R170	033-2701-15	1/16W 27 ohm J
R171	033-2701-15	1/16W 27 ohm J
R172	033-2701-15	1/16W 27 ohm J
R173	033-2701-15	1/16W 27 ohm J
R175	033-2701-15	1/16W 27 ohm J
R176	033-2701-15	1/16W 27 ohm J
R177	032-0221-74	1/16W 10k ohm 1%
R179	033-2701-15	1/16W 27 ohm J
R180	033-2701-15	1/16W 27 ohm J
R181	033-2701-15	1/16W 27 ohm J
R182	033-2701-15	1/16W 27 ohm J
R183	033-2701-15	1/16W 27 ohm J
R184	032-0221-33	1/16W 20k ohm F
R185	032-0221-33	1/16W 20k ohm F
R186	032-0221-33	1/16W 20k ohm F
R187	032-0221-33	1/16W 20k ohm F
R188	032-0221-33	1/16W 20k ohm F
R189	032-0221-33	1/16W 20k ohm F
R190	032-0221-33	1/16W 20k ohm F
R191	032-0221-33	1/16W 20k ohm F
R192	032-0221-33	1/16W 20k ohm F
R193	032-0221-33	1/16W 20k ohm F
R194	032-0221-33	1/16W 20k ohm F
R195	032-0221-33	1/16W 20k ohm F
R196	032-0221-99	1/16W 100 ohm 1%
R197	032-0221-99	1/16W 100 ohm 1%
R198	032-0221-99	1/16W 100 ohm 1%
R199	032-0221-51	1/16W 4.7k ohm F
R201	032-0221-02	1/16W 33 ohm 1%
R202	032-0221-02	1/16W 33 ohm 1%
R203	032-0221-02	1/16W 33 ohm 1%
R204	032-0221-02	1/16W 33 ohm 1%
R205	032-0221-02	1/16W 33 ohm 1%
R206	032-0221-02	1/16W 33 ohm 1%
R207	033-6801-15	1/16W 68 ohm J
R208	032-0221-02	1/16W 33 ohm 1%
R209	032-0221-02	1/16W 33 ohm 1%
R210	032-0221-74	1/16W 10k ohm 1%
R211	032-0221-74	1/16W 10k ohm 1%
R212	032-0221-02	1/16W 33 ohm 1%
R213	032-0221-02	1/16W 33 ohm 1%
R214	032-0221-02	1/16W 33 ohm 1%
R215	032-0221-02	1/16W 33 ohm 1%
R216	033-3911-15	1/16W 390 ohm J
R217	032-0221-02	1/16W 33 ohm 1%
R218	032-0221-02	1/16W 33 ohm 1%
R219	032-0221-74	1/16W 10k ohm 1%
R220	032-0221-02	1/16W 33 ohm 1%
R221	032-0221-02	1/16W 33 ohm 1%
R222	032-0221-02	1/16W 33 ohm 1%
R224	033-4701-15	1/16W 47 ohm J

REF NO.	PART NO.	DESCRIPTION
R225	032-0221-74	1/16W 10k ohm 1%
R226	032-0221-74	1/16W 10k ohm 1%
R227	032-0221-74	1/16W 10k ohm 1%
R228	032-0221-02	1/16W 33 ohm 1%
R229	032-0221-02	1/16W 33 ohm 1%
R230	032-0221-02	1/16W 33 ohm 1%
R231	032-0221-74	1/16W 10k ohm 1%
R233	119-0000-05	1/10W 0 ohm JW
R234	032-0221-83	1/16W 3.3k ohm F
R235	032-0221-02	1/16W 33 ohm 1%
R236	032-0221-02	1/16W 33 ohm 1%
R242	032-0221-02	1/16W 33 ohm 1%
R243	032-0221-02	1/16W 33 ohm 1%
R245	032-0221-74	1/16W 10k ohm 1%
R249	032-0221-02	1/16W 33 ohm 1%
R250	032-0221-74	1/16W 10k ohm 1%
R252	032-0221-08	1/16W 1k ohm F
R256	032-0221-74	1/16W 10k ohm 1%
R257	032-0221-02	1/16W 33 ohm 1%
R258	032-0221-02	1/16W 33 ohm 1%
R259	032-0221-02	1/16W 33 ohm 1%
R260	033-2221-15	1/16W 2.2k ohm J
R261	033-2221-15	1/16W 2.2k ohm J
R262	032-0221-02	1/16W 33 ohm 1%
R263	032-0221-02	1/16W 33 ohm 1%
R264	032-0221-02	1/16W 33 ohm 1%
R267	032-0221-02	1/16W 33 ohm 1%
R268	032-0221-02	1/16W 33 ohm 1%
R270	033-2221-15	1/16W 2.2k ohm J
R271	032-0221-02	1/16W 33 ohm 1%
R273	032-0221-02	1/16W 33 ohm 1%
R274	032-0221-02	1/16W 33 ohm 1%
R275	032-0221-02	1/16W 33 ohm 1%
R276	032-0221-02	1/16W 33 ohm 1%
R277	032-0221-02	1/16W 33 ohm 1%
R278	032-0221-51	1/16W 4.7k ohm F
R279	032-0221-74	1/16W 10k ohm 1%
R280	032-0221-08	1/16W 1k ohm F
R281	032-0221-02	1/16W 33 ohm 1%
R282	033-2221-15	1/16W 2.2k ohm J
R283	032-0221-51	1/16W 4.7k ohm F
R285	032-0221-74	1/16W 10k ohm 1%
R286	032-0221-74	1/16W 10k ohm 1%
R287	032-0221-74	1/16W 10k ohm 1%
R290	032-0221-02	1/16W 33 ohm 1%
R292	032-0221-51	1/16W 4.7k ohm F
R293	032-0221-74	1/16W 10k ohm 1%
R294	032-0221-74	1/16W 10k ohm 1%
R296	032-0221-74	1/16W 10k ohm 1%
R297	032-0221-74	1/16W 10k ohm 1%
R298	032-0221-74	1/16W 10k ohm 1%
R299	032-0221-74	1/16W 10k ohm 1%
R301	033-1091-15	1/16W 1 ohm
R302	119-0000-05	1/10W 0 ohm JW
R306	033-1091-15	1/16W 1 ohm
R307	033-1091-15	1/16W 1 ohm
R308	033-1091-15	1/16W 1 ohm
R309	033-1091-15	1/16W 1 ohm
R310	033-1091-15	1/16W 1 ohm
R311	032-0221-52	1/16W 1.8k ohm F
R312	032-0221-52	1/16W 1.8k ohm F
R313	033-1091-15	1/16W 1 ohm
R314	033-1091-15	1/16W 1 ohm
R315	033-1091-15	1/16W 1 ohm
R316	033-1091-15	1/16W 1 ohm
R317	033-1091-15	1/16W 1 ohm
R319	033-1091-15	1/16W 1 ohm
R321	033-1091-15	1/16W 1 ohm
R322	033-1091-15	1/16W 1 ohm
R323	033-1091-15	1/16W 1 ohm
R324	033-1091-15	1/16W 1 ohm
R325	033-1091-15	1/16W 1 ohm
R326	033-1091-15	1/16W 1 ohm
R401	032-0221-51	1/16W 4.7k ohm F
R410	032-0221-74	1/16W 10k ohm 1%

REF NO.	PART NO.	DESCRIPTION
R411	033-0000-05	1/16W 0 ohm
R412	032-0221-99	1/16W 100 ohm 1%
R414	032-0221-02	1/16W 33 ohm 1%
R416	033-1001-15	1/16W 10 ohm J
R418	032-0221-02	1/16W 33 ohm 1%
R421	033-1001-15	1/16W 10 ohm J
R422	032-0221-83	1/16W 3.3k ohm F
R437	032-0221-74	1/16W 10k ohm 1%
R441	032-0221-08	1/16W 1k ohm F
R442	032-0221-04	1/16W 10 ohm F
R445	032-0221-74	1/16W 10k ohm 1%
R446	033-2201-15	1/16W 22 ohm J
R448	032-0221-74	1/16W 10k ohm 1%
R449	032-0221-74	1/16W 10k ohm 1%
R450	032-0221-74	1/16W 10k ohm 1%
R452	032-0221-74	1/16W 10k ohm 1%
R454	032-0221-74	1/16W 10k ohm 1%
R455	032-0221-74	1/16W 10k ohm 1%
R456	032-0221-74	1/16W 10k ohm 1%
R457	032-0221-74	1/16W 10k ohm 1%
R458	032-0221-74	1/16W 10k ohm 1%
R459	032-0221-74	1/16W 10k ohm 1%
R460	032-0221-74	1/16W 10k ohm 1%
R462	032-0221-74	1/16W 10k ohm 1%
R463	032-0221-74	1/16W 10k ohm 1%
R464	032-0221-74	1/16W 10k ohm 1%
R465	032-0221-74	1/16W 10k ohm 1%
R466	032-0221-74	1/16W 10k ohm 1%
R467	032-0221-74	1/16W 10k ohm 1%
R468	032-0221-74	1/16W 10k ohm 1%
R469	032-0221-74	1/16W 10k ohm 1%
R470	032-0221-74	1/16W 10k ohm 1%
R471	032-0221-74	1/16W 10k ohm 1%
R472	032-0221-74	1/16W 10k ohm 1%
R474	032-0221-74	1/16W 10k ohm 1%
R475	032-0221-74	1/16W 10k ohm 1%
R476	032-0221-74	1/16W 10k ohm 1%
R477	119-0000-05	1/10W 0 ohm JW
R478	119-0000-05	1/10W 0 ohm JW
R479	119-0000-05	1/10W 0 ohm JW
R480	119-0000-05	1/10W 0 ohm JW
R507	032-0221-75	1/16W 47k ohm F
R508	032-0221-74	1/16W 10k ohm 1%
R509	033-5611-15	1/16W 560 ohm J
R510	032-0221-08	1/16W 1k ohm F
R511	033-2221-15	1/16W 2.2k ohm J
R514	032-0221-02	1/16W 33 ohm 1%
R515	032-0221-02	1/16W 33 ohm 1%
R516	032-0221-02	1/16W 33 ohm 1%
R517	032-0221-02	1/16W 33 ohm 1%
R518	032-0221-02	1/16W 33 ohm 1%
R519	032-0221-02	1/16W 33 ohm 1%
R520	032-0221-02	1/16W 33 ohm 1%
R521	032-0221-02	1/16W 33 ohm 1%
R522	032-0221-02	1/16W 33 ohm 1%
R524	033-0000-05	1/16W 0 ohm
R525	032-0221-75	1/16W 47k ohm F
R528	032-0221-74	1/16W 10k ohm 1%
R601	033-0000-05	1/16W 0 ohm
R602	033-0000-05	1/16W 0 ohm
R612	033-0000-05	1/16W 0 ohm
R613	033-0000-05	1/16W 0 ohm
R618	116-1001-15	1/4W 10 ohm
R619	032-0225-55	1/16W 7.5k ohm +/- 0.5%
R620	032-0225-52	1/16W 10k ohm 0.5%
R626	116-1001-15	1/4W 10 ohm
R627	032-0221-75	1/16W 47k ohm F
R629	033-0000-05	1/16W 0 ohm
R631	032-0221-02	1/16W 33 ohm 1%
R701	119-1011-15	1/10W 100 ohm
R702	033-0000-05	1/16W 0 ohm
R707	119-0000-05	1/10W 0 ohm JW
R709	AQZ0491	1/10W 47 ohm 1%

REF NO.	PART NO.	DESCRIPTION
R710	032-0221-88	1/16W 30 ohm F
R715	119-0000-05	1/10W 0 ohm JW
R717	AQZ0491	1/10W 47 ohm 1%
R718	032-0221-88	1/16W 30 ohm F
R739	032-0221-02	1/16W 33 ohm 1%
R740	032-0221-61	1/16W 6.8k ohm F
R747	032-0221-88	1/16W 30 ohm F
R749	032-0221-00	1/16W 68 ohm 1%
R754	AQZ0491	1/10W 47 ohm 1%
R755	032-0221-88	1/16W 30 ohm F
R756	033-0000-05	1/16W 0 ohm
R757	032-0221-83	1/16W 3.3k ohm F
R796	AQZ0491	1/10W 47 ohm 1%
R801	032-0221-83	1/16W 3.3k ohm F
R802	032-0221-65	1/16W 68k ohm F
R803	032-0210-73	1/10W 390 ohm 1%
R804	119-2231-15	1/10W 22k ohm
R806	032-0210-40	1/10W 1.3k ohm F
R807	032-0210-81	1/10W 2.7k ohm F
R808	032-0210-16	1/10W 1.2k ohm F
R809	032-0210-36	1/10W 22 ohm F
R810	032-0210-58	1/10W 12k ohm F
R811	032-0210-85	1/10W 150 ohm F
R812	032-0221-51	1/16W 4.7k ohm F
R813	032-0221-74	1/16W 10k ohm 1%
R814	032-0221-74	1/16W 10k ohm 1%
R815	119-2221-15	1/10W 2.2k ohm
R816	032-0221-74	1/16W 10k ohm 1%
R818	032-0221-51	1/16W 4.7k ohm F
R821	032-0221-59	1/16W 220 ohm F
R822	032-0221-33	1/16W 20k ohm F
R823	033-4711-15	1/16W 470 ohm J
R824	032-0210-88	1/10W 5.1k ohm F
R825	032-0210-83	1/10W 3.9k ohm 1%
R826	032-0210-52	1/10W 10k ohm F
R827	032-0210-95	1/10W 2k ohm F
R828	032-0210-26	1/10W 82 ohm F
R829	032-0221-83	1/16W 3.3k ohm F
R831	032-0221-56	1/16W 22k ohm F
R832	032-0221-56	1/16W 22k ohm F
R833	032-0221-75	1/16W 47k ohm F
R837	032-0221-86	1/16W 82k ohm F
R838	032-0221-09	1/16W 33k ohm F
R839	032-0210-75	1/10W 820 ohm F
R840	032-0210-00	1/10W 330 ohm F
R841	032-0210-75	1/10W 820 ohm F
R842	032-0210-00	1/10W 330 ohm F
R843	032-0210-70	1/10W 680 ohm 1%
R844	032-0210-63	1/10W 3k ohm F
R845	032-0210-64	1/10W 1k ohm F
R846	032-0215-61	1/10W 7.5k ohm(F)
R847	032-0246-52	3/4W 0.11 ohm
R848	032-0246-52	3/4W 0.11 ohm
R849	033-0000-05	1/16W 0 ohm
R850	032-0221-84	1/16W 27k ohm F
R851	032-0221-38	1/16W 300k ohm
R852	032-0221-07	1/16W 56k ohm F
R853	032-0221-60	1/16W 3.9k ohm F
R854	032-0221-51	1/16W 4.7k ohm F
R855	032-0221-09	1/16W 33k ohm F
R856	032-0221-84	1/16W 27k ohm F
R858	032-0221-99	1/16W 100 ohm 1%
R861	032-0221-70	1/16W 680k ohm F
R862	032-0221-64	1/16W 39k ohm F
R863	032-0221-86	1/16W 82k ohm F
R864	116-7511-15	1/4W 750 ohm
R865	033-1101-15	1/16W 11 ohm
R866	033-0000-05	1/16W 0 ohm
R867	032-0221-51	1/16W 4.7k ohm F
R868	032-0221-51	1/16W 4.7k ohm F
R869	032-0221-51	1/16W 4.7k ohm F
R870	032-0221-51	1/16W 4.7k ohm F
R871	032-0221-51	1/16W 4.7k ohm F
R872	032-0221-09	1/16W 33k ohm F

REF NO.	PART NO.	DESCRIPTION
R873	032-0221-95	1/16W 2.7k ohm F
R876	032-0221-51	1/16W 4.7k ohm F
R878	032-0221-51	1/16W 4.7k ohm F
R879	032-0221-85	1/16W 120k ohm F
R880	032-0225-68	1/16W 5.6k ohm +/- 0.5%
R881	032-0225-74	1/16W 6.8k ohm +/- 0.5%
R882	032-0221-11	1/16W 5.6k ohm F
R883	032-0221-74	1/16W 10k ohm 1%
R884	033-0000-05	1/16W 0 ohm
R886	116-7511-15	1/4W 750 ohm
R887	032-0221-51	1/16W 4.7k ohm F
R889	119-0000-05	1/10W 0 ohm JW
R890	032-0221-99	1/16W 100 ohm 1%
R891	119-0000-05	1/10W 0 ohm JW
R892	119-0000-05	1/10W 0 ohm JW
R893	119-0000-05	1/10W 0 ohm JW
R895	033-0000-05	1/16W 0 ohm
R896	033-0000-05	1/16W 0 ohm
R897	033-0000-05	1/16W 0 ohm
R898	032-0221-83	1/16W 3.3k ohm F
R901	032-0221-74	1/16W 10k ohm 1%
R902	032-0221-83	1/16W 3.3k ohm F
R903	032-0221-33	1/16W 20k ohm F
R904	032-0221-08	1/16W 1k ohm F
R905	032-0221-84	1/16W 27k ohm F
R906	032-0221-84	1/16W 27k ohm F
R911	033-8211-15	1/16W 820 ohm J
R912	032-0221-56	1/16W 22k ohm F
R917	032-0221-99	1/16W 100 ohm 1%
R949	032-0221-84	1/16W 27k ohm F
R950	032-0221-84	1/16W 27k ohm F
R951	032-0221-56	1/16W 22k ohm F
R952	032-0221-56	1/16W 22k ohm F
R953	033-2201-15	1/16W 22 ohm J
R954	032-0221-61	1/16W 6.8k ohm F
R968	032-0221-99	1/16W 100 ohm 1%
R969	032-0221-99	1/16W 100 ohm 1%
R971	032-0210-31	1/10W 180 ohm F
R973	033-0000-05	1/16W 0 ohm
R974	033-0000-05	1/16W 0 ohm
R975	033-0000-05	1/16W 0 ohm
R976	033-0000-05	1/16W 0 ohm
R977	033-0000-05	1/16W 0 ohm
R978	032-0221-02	1/16W 33 ohm 1%
R979	032-0221-02	1/16W 33 ohm 1%
R980	032-0221-02	1/16W 33 ohm 1%
R981	032-0221-02	1/16W 33 ohm 1%
R982	119-0000-05	1/10W 0 ohm JW
R983	119-0000-05	1/10W 0 ohm JW
R986	119-0000-05	1/10W 0 ohm JW
R1005	032-0221-08	1/16W 1k ohm F
R1006	032-0221-08	1/16W 1k ohm F
R1008	119-2201-15	1/10W 22 ohm
R1009	119-2201-15	1/10W 22 ohm
R1010	032-0221-08	1/16W 1k ohm F
R1011	119-2201-15	1/10W 22 ohm
R1012	033-0000-05	1/16W 0 ohm
R1013	033-0000-05	1/16W 0 ohm
R1016	033-0000-05	1/16W 0 ohm
R1017	033-0000-05	1/16W 0 ohm
R1018	033-0000-05	1/16W 0 ohm
R1019	033-0000-05	1/16W 0 ohm
R1020	033-0000-05	1/16W 0 ohm
R1021	033-0000-05	1/16W 0 ohm
R1022	033-0000-05	1/16W 0 ohm
R1027	032-0221-74	1/16W 10k ohm 1%
R1028	032-0221-75	1/16W 47k ohm F
R1029	033-0000-05	1/16W 0 ohm
R1030	032-0221-02	1/16W 33 ohm 1%
R1033	119-0000-05	1/10W 0 ohm JW
R1036	119-0000-05	1/10W 0 ohm JW
R1037	032-0221-99	1/16W 100 ohm 1%
R1038	033-0000-05	1/16W 0 ohm

REF NO.	PART NO.	DESCRIPTION
R1039	033-0000-05	1/16W 0 ohm
R1041	033-0000-05	1/16W 0 ohm
R1042	032-0221-75	1/16W 47k ohm F
R1045	119-0000-05	1/10W 0 ohm JW
R1046	119-0000-05	1/10W 0 ohm JW
R1047	119-0000-05	1/10W 0 ohm JW
R1048	119-0000-05	1/10W 0 ohm JW
R1049	119-0000-05	1/10W 0 ohm JW
R1056	032-0221-15	1/16W 56 ohm
R1057	032-0221-15	1/16W 56 ohm
R1058	033-0000-05	1/16W 0 ohm
R1059	033-0000-05	1/16W 0 ohm
R1069	032-0221-02	1/16W 33 ohm 1%
R1071	032-0221-74	1/16W 10k ohm 1%
R1074	032-0221-08	1/16W 1k ohm F
R1101	033-0000-05	1/16W 0 ohm
R1102	032-0221-02	1/16W 33 ohm 1%
R1104	032-0221-55	1/16W 1.5k ohm F
R1105	032-0221-56	1/16W 22k ohm F
R1106	032-0221-09	1/16W 33k ohm F
R1107	032-0221-02	1/16W 33 ohm 1%
R1108	033-0000-05	1/16W 0 ohm
R1109	033-0000-05	1/16W 0 ohm
R1110	032-0221-75	1/16W 47k ohm F
R1111	032-0221-02	1/16W 33 ohm 1%
R1112	032-0221-75	1/16W 47k ohm F
R1113	032-0221-75	1/16W 47k ohm F
R1114	032-0221-75	1/16W 47k ohm F
R1115	032-0221-51	1/16W 4.7k ohm F
R1118	032-0210-65	1/10W 27k ohm F
R1121	119-1011-15	1/10W 100 ohm
R1122	119-1011-15	1/10W 100 ohm
R1123	119-0000-05	1/10W 0 ohm JW
R1124	119-1021-15	1/10W 1k ohm
R1125	032-0221-06	1/16W 100k ohm F
R1126	032-0221-74	1/16W 10k ohm 1%
R1127	032-0221-29	1/16W 5.1k ohm 1%
R1128	033-0000-05	1/16W 0 ohm
R1129	032-0221-83	1/16W 3.3k ohm F
R1202	032-0221-74	1/16W 10k ohm 1%
R1203	032-0221-74	1/16W 10k ohm 1%
R1204	116-1011-15	1/4W 100 ohm
R1205	032-0221-74	1/16W 10k ohm 1%
R1206	032-0221-74	1/16W 10k ohm 1%
R1209	032-0221-99	1/16W 100 ohm 1%
R1214	119-2221-15	1/10W 2.2k ohm
R1215	119-1521-15	1/10W 1.5k ohm
R1216	032-0221-83	1/16W 3.3k ohm F
R1226	116-5621-15	1/4W 5.6k ohm
R1228	032-0221-74	1/16W 10k ohm 1%
R1230	032-0221-11	1/16W 5.6k ohm F
R1231	119-1531-15	1/10W 15k ohm
R1232	032-0221-09	1/16W 33k ohm F
R1233	032-0221-74	1/16W 10k ohm 1%
R1234	032-0221-74	1/16W 10k ohm 1%
R1235	032-0221-08	1/16W 1k ohm F
R1236	032-0221-51	1/16W 4.7k ohm F
R1237	033-5641-15	1/16W 560k ohm J
R1238	032-0221-99	1/16W 100 ohm 1%
R1239	032-0176-00	1/3W 1k ohm J
R1240	032-0221-52	1/16W 1.8k ohm F
R1241	117-1531-15	1/8W 15k ohm
R1247	116-1321-15	1/4W 1.3k ohm
R1248	116-1321-15	1/4W 1.3k ohm
R1253	032-0221-99	1/16W 100 ohm 1%
R1255	119-1021-15	1/10W 1k ohm
R1256	032-0221-74	1/16W 10k ohm 1%
R1257	032-0221-11	1/16W 5.6k ohm F
R1258	116-1011-15	1/4W 100 ohm
R1259	116-1011-15	1/4W 100 ohm
R1260	119-1031-15	1/10W 10k ohm
R1261	119-1031-15	1/10W 10k ohm
R1262	032-0221-74	1/16W 10k ohm 1%
R1265	033-0000-05	1/16W 0 ohm

REF NO.	PART NO.	DESCRIPTION
R1266	033-0000-05	1/16W 0 ohm
R1267	032-0221-51	1/16W 4.7k ohm F
R1268	032-0221-51	1/16W 4.7k ohm F
R1269	032-0221-99	1/16W 100 ohm 1%
R1271	033-0000-05	1/16W 0 ohm
R1272	119-0000-05	1/10W 0 ohm JW
R1273	119-0000-05	1/10W 0 ohm JW
R1277	032-0210-56	1/10W 22k ohm F
R1278	032-0210-56	1/10W 22k ohm F
R1303	032-0221-83	1/16W 3.3k ohm F
R1304	032-0221-06	1/16W 100k ohm F
R1307	033-0000-05	1/16W 0 ohm
R1309	033-0000-05	1/16W 0 ohm
R1314	033-0000-05	1/16W 0 ohm
R1316	033-0000-05	1/16W 0 ohm
R1317	033-0000-05	1/16W 0 ohm
R1319	119-0000-05	1/10W 0 ohm JW
R1321	033-0000-05	1/16W 0 ohm
R1322	032-0221-51	1/16W 4.7k ohm F
R1323	032-0221-06	1/16W 100k ohm F
R1327	032-0221-75	1/16W 47k ohm F
R1328	032-0221-75	1/16W 47k ohm F
R1344	032-0221-74	1/16W 10k ohm 1%
R1347	033-0000-05	1/16W 0 ohm
R1349	033-0000-05	1/16W 0 ohm
R1351	032-0221-06	1/16W 100k ohm F
R1352	032-0221-33	1/16W 20k ohm F
R1354	033-0000-05	1/16W 0 ohm
R1355	033-0000-05	1/16W 0 ohm
R1401	032-0210-64	1/10W 1k ohm F
R1402	119-1021-15	1/10W 1k ohm
R1403	119-1021-15	1/10W 1k ohm
R1404	032-0221-74	1/16W 10k ohm 1%
R1405	032-0221-99	1/16W 100 ohm 1%
R1406	032-0221-74	1/16W 10k ohm 1%
R1501	032-0221-06	1/16W 100k ohm F
R1502	033-1091-15	1/16W 1 ohm
R1505	033-0000-05	1/16W 0 ohm
R1507	032-0221-06	1/16W 100k ohm F
R1508	032-0221-06	1/16W 100k ohm F
R1509	033-1091-15	1/16W 1 ohm
R1512	033-0000-05	1/16W 0 ohm
R1514	032-0221-06	1/16W 100k ohm F
R1517	032-0221-55	1/16W 1.5k ohm F
R1518	032-0221-95	1/16W 2.7k ohm F
R1519	033-0000-05	1/16W 0 ohm
R1520	033-0000-05	1/16W 0 ohm
R1521	033-0000-05	1/16W 0 ohm
R1522	032-0221-04	1/16W 10 ohm F
R1523	032-0221-76	1/16W 24k ohm F
R1526	032-0221-06	1/16W 100k ohm F
R1527	032-0221-75	1/16W 47k ohm F
R1528	033-4711-15	1/16W 470 ohm J
R1529	032-0225-62	1/16W 56k ohm +/- 0.5%
R1530	032-0221-51	1/16W 4.7k ohm F
R1531	032-0221-74	1/16W 10k ohm 1%
R1532	032-0221-76	1/16W 24k ohm F
R1533	033-2221-15	1/16W 2.2k ohm J
R1534	032-0221-06	1/16W 100k ohm F
R1535	032-0221-74	1/16W 10k ohm 1%
R1536	032-0221-74	1/16W 10k ohm 1%
R1540	032-0221-59	1/16W 220 ohm F
R1541	032-0221-74	1/16W 10k ohm 1%
R1550	033-0000-05	1/16W 0 ohm
R1552	033-0000-05	1/16W 0 ohm
R1554	032-0221-32	1/16W 220k ohm F
R1555	032-0221-29	1/16W 5.1k ohm 1%
R1556	032-0221-94	1/16W 180k ohm F
R1557	032-0210-00	1/10W 330 ohm F
R1558	032-0210-00	1/10W 330 ohm F
R1559	032-0210-00	1/10W 330 ohm F
R1562	033-0000-05	1/16W 0 ohm
R1564	032-0210-00	1/10W 330 ohm F

REF NO.	PART NO.	DESCRIPTION
R1565	032-0210-00	1/10W 330 ohm F
R1567	119-4711-15	1/10W 470 ohm
R1601	032-0221-75	1/16W 47k ohm F
R1608	032-0221-75	1/16W 47k ohm F
R1609	032-0221-75	1/16W 47k ohm F
R1611	032-0221-75	1/16W 47k ohm F
R1613	033-4711-15	1/16W 470 ohm J
R1614	033-0000-05	1/16W 0 ohm
R1708	033-0000-05	1/16W 0 ohm
R1709	033-0000-05	1/16W 0 ohm
R1710	032-0221-51	1/16W 4.7k ohm F
R2001	032-0221-02	1/16W 33 ohm 1%
R2002	032-0221-02	1/16W 33 ohm 1%
R2004	032-0221-99	1/16W 100 ohm 1%
R4801	116-3911-15	1/4W 390 ohm
R4802	032-0221-56	1/16W 22k ohm F
R8003	032-0221-08	1/16W 1k ohm F
R8005	032-0221-28	1/16W 360k ohm 1%
R8006	032-0221-56	1/16W 22k ohm F
R8007	033-1251-15	1/16W 1.2M ohm J
R8008	032-0802-00	1/16W 300k ohm F
R8009	033-2751-15	1/16W 2.7M ohm J
R8010	032-0221-28	1/16W 360k ohm 1%
R8011	033-5651-15	1/16W 5.6M ohm J
R8012	033-5641-15	1/16W 560k ohm J
R8013	032-0221-70	1/16W 680k ohm F
R8014	032-0221-86	1/16W 82k ohm F

REF NO.	PART NO.	DESCRIPTION
R8015	033-1061-15	1/16W 10M ohm J
R8016	033-2251-15	1/16W 2.2M ohm J
R8017	033-1061-15	1/16W 10M ohm J
R8018	033-1061-15	1/16W 10M ohm J
RN101	050-0157-09	1/16W 15 ohm x2
RN102	050-0157-09	1/16W 15 ohm x2
RN103	050-0157-09	1/16W 15 ohm x2
RN104	050-0157-09	1/16W 15 ohm x2
RN201	050-0156-57	1/16W 10k ohm x4
RN204	050-0156-59	1/16W 33 ohm x4
RN205	050-0156-59	1/16W 33 ohm x4
RN206	050-0156-59	1/16W 33 ohm x4
RN207	050-0156-59	1/16W 33 ohm x4
RN209	050-0156-59	1/16W 33 ohm x4
RN210	050-0140-69	1/32W 56 ohm x4J
RN211	050-0156-77	1/16W 68 ohm x4
RN217	050-0156-59	1/16W 33 ohm x4
RN218	050-0156-55	1/16W 2.2k ohm x4
RN219	050-0140-55	1/32W 2.2k ohmx4J
RN220	050-0156-57	1/16W 10k ohm x4
RN221	050-0156-63	1/16W 47k ohm x4
RN222	050-0156-63	1/16W 47k ohm x4
RN223	050-0156-59	1/16W 33 ohm x4
RN501	050-0156-63	1/16W 47k ohm x4
RN701	050-0156-59	1/16W 33 ohm x4
RN702	050-0156-59	1/16W 33 ohm x4
RN901	050-0156-53	1/16W 0 ohm x4
RN902	050-0156-59	1/16W 33 ohm x4
RN1006	050-0156-53	1/16W 0 ohm x4

REF NO.	PART NO.	DESCRIPTION
RN1010	050-0156-53	1/16W 0 ohm x4
RN1101	050-0156-59	1/16W 33 ohm x4
RN1102	050-0156-59	1/16W 33 ohm x4
RN1103	050-0156-59	1/16W 33 ohm x4
RN1104	050-0156-59	1/16W 33 ohm x4
RN1105	050-0156-59	1/16W 33 ohm x4
RN1301	050-0156-53	1/16W 0 ohm x4
SUP1301	001-4323-90	RCLAMP0502A
SUP1303	001-4323-90	RCLAMP0502A
VR1204	001-9213-50	EZJZ1V270EA
VR1206	001-9213-50	EZJZ1V270EA
VR1207	001-9210-50	AVR-M1608C270MTAAD
X401	061-3593-80	NX3225GA 48MHz
X601	061-4568-90	DSB221SDM 26MHz
X604	061-9227-80	32.768KHz
X1101	061-3608-90	FA-238 27MHz
ZD801	001-0529-44	MA8082-M
ZD1201	001-4330-32	UDZV TE-17 18B
ZD1202	001-4330-32	UDZV TE-17 18B
ZD1204	001-0529-32	MA8056-M
ZD1205	001-0529-47	MA8091-M
ZD1206	001-0529-47	MA8091-M
ZD1207	001-4330-32	UDZV TE-17 18B
ZD1208	001-0529-14	MA8030-L
PWB	039-4618-00	PWB(WITHOUT COMPONENTS)

IF PWB(B5) section

REF NO.	PART NO.	DESCRIPTION
C125	043-0311-20	1uF 10V
C129	168-1052-78	16V 1uF K
C202	168-1052-78	16V 1uF K
C203	045-1011-50	100pFJ CH
C206	043-0570-90	16V 2.2uF K
C210	046-1042-78	0.1uF K B
C211	043-4402-90	16V 1uF
C212	043-4321-90	0.22uF
C213	043-4321-90	0.22uF
C214	043-4321-90	0.22uF
C215	043-4321-90	0.22uF
C216	165-1063-35	16V 10uF
C217	165-1063-35	16V 10uF
C218	165-1063-35	16V 10uF
C219	165-1063-35	16V 10uF
C220	045-4711-50	470pFJ CH
C221	045-4711-50	470pFJ CH
C222	046-1042-78	0.1uF K B
C234	045-4711-50	470pFJ CH
C236	045-4711-50	470pFJ CH
C244	043-4402-90	16V 1uF
C245	043-0603-90	16V 10uF
C249	043-4402-90	16V 1uF
C250	168-1052-78	16V 1uF K
C263	168-1042-38	50V 0.1uF K
C266	046-1032-78	0.01uF K B
C267	045-1011-50	100pFJ CH
C268	043-0603-90	16V 10uF
C269	046-3312-58	330pF K B
C270	046-2222-58	2200pF K B
C271	043-0570-90	16V 2.2uF K
C272	043-4402-90	16V 1uF
C273	043-0603-90	16V 10uF
C274	046-3312-58	330pF K B
C275	046-2222-58	2200pF K B
C276	AAZ0254	50V 0.1uF
C282	043-0603-90	16V 10uF
C283	043-4402-90	16V 1uF
C284	043-0575-90	25V 0.47uF
C285	046-1042-78	0.1uF K B
C286	046-1042-78	0.1uF K B
C287	046-1042-78	0.1uF K B

REF NO.	PART NO.	DESCRIPTION
C288	046-1042-78	0.1uF K B
C289	165-2263-35	16V 22uF
C290	165-4763-35	16V 47uF
C292	166-2221-50	2200pF CH
C293	168-2222-55	2200pF K
C295	168-2232-55	0.022uF K
C296	168-2222-55	2200pF K
C330	043-4402-90	16V 1uF
C331	165-4763-35	16V 47uF
C332	043-5709-90	50V 1uF K
C333	178-1055-79	1uF
C337	046-3322-58	3300pF K B
C338	046-1042-78	0.1uF K B
C339	165-1063-55	35V 10uF
C342	ADZ0336	16V 22uF
C343	043-0603-90	16V 10uF
C345	168-2242-58	0.22uF K
C349	043-0566-90	50V 2.2uF K
C350	168-1022-55	1000pF K
C351	168-1022-55	1000pF K
C501	168-2212-55	220pF K
C502	168-2212-55	220pF K
C503	046-1032-78	0.01uF K B
C504	045-1011-50	100pFJ CH
C505	046-1045-59	0.1uF Z F
C506	046-1032-78	0.01uF K B
C507	168-2212-55	220pF K
C508	168-2212-55	220pF K
C509	168-1052-78	16V 1uF K
C510	043-4402-90	16V 1uF
C511	165-1073-35	16V 100uF
C512	046-1032-78	0.01uF K B
C513	043-7400-90	16V 22uF
C514	045-1011-50	100pFJ CH
C610	165-1073-35	16V 100uF
C614	042-0638-51	16V 220uF
C616	043-4402-90	16V 1uF
C618	043-4402-90	16V 1uF
C619	165-4763-35	16V 47uF
C701	043-5709-90	50V 1uF K
C702	178-1052-78	25V 1uF
C703	042-4442-01	25V 1000uF

REF NO.	PART NO.	DESCRIPTION
C704	042-4442-01	25V 1000uF
C705	165-1063-55	35V 10uF
C706	042-4035-85	16V 22uF
C707	165-2263-35	16V 22uF
C708	043-4306-90	1uF
C709	042-0638-51	16V 220uF
C710	042-4035-98	16V 47uF
C711	043-4402-90	16V 1uF
C713	045-5096-50	5pF +/-0.25pF CH
C714	046-2222-58	2200pF K B
C715	043-0603-90	16V 10uF
C716	043-5709-90	50V 1uF K
C717	168-1042-38	50V 0.1uF K
C720	168-1042-38	50V 0.1uF K
C725	045-1007-50	10 +/-0.5pF CH
C726	046-2222-58	2200pF K B
C727	168-1042-38	50V 0.1uF K
C728	168-1042-38	50V 0.1uF K
C733	168-1042-38	50V 0.1uF K
C734	043-7707-90	50V 10uF
C735	043-7700-90	50V 4.7uF
C736	043-7700-90	50V 4.7uF
C737	043-7300-90	10V 47uF
C738	043-7300-90	10V 47uF
C740	042-4035-91	6.3V 100uF
C742	042-4035-95	16V 100uF
C743	043-0563-90	16V 47uF
C744	043-7700-90	50V 4.7uF
C745	043-7700-90	50V 4.7uF
C746	168-2222-55	2200pF K
C747	168-1042-78	16V 0.1uF K
C748	168-1042-78	16V 0.1uF K
C749	043-4306-90	1uF
C751	045-2701-50	27pFJ CH
C752	042-4035-82	25V 47uF
C753	AAZ0264	16V 1uF
C754	046-1022-58	50V 1000pF
C755	AAZ0264	16V 1uF
C756	046-1022-58	50V 1000pF
C757	046-1522-58	1500pF K B
C758	046-1522-58	1500pF K B
C759	043-5709-90	50V 1uF K

REF NO.	PART NO.	DESCRIPTION
C760	168-2222-55	2200pF K
C761	043-7707-90	50V 10uF
C762	046-1022-58	50V 1000pF
C763	046-1022-58	50V 1000pF
D201	001-0367-91	1SS226
D203	001-2644-90	RB161M-20FTR
D205	001-2412-90	RR264M-400
D207	001-2403-90	M1F60
D208	001-2403-90	M1F60
D301	001-2630-90	1SS420-TPL3,F
D302	001-1325-90	1SS387
D303	001-1325-90	1SS387
D308	001-2412-90	RR264M-400
D310	001-1325-90	1SS387
D311	001-1325-90	1SS387
D313	001-2630-90	1SS420-TPL3,F
D501	001-0516-90	MA111
D502	001-0367-91	1SS226
D503	001-0516-90	MA111
D702	001-2633-90	1SS388-TPL3,F
D703	001-2633-90	1SS388-TPL3,F
D1312	001-2669-90	RBQ10B65AFHTL
IC202	051-3034-90	NJM4558V
IC205	051-3034-90	NJM4558V
IC206	051-3034-90	NJM4558V
IC207	051-3774-90	NJM11100F1
IC210	051-3034-90	NJM4558V
IC302	051-6663-80	TJA1042T/3,118
IC303	051-3711-60	S-1142D50H-E6T2U
IC501	051-5848-90	IL207AT
IC502	051-7249-90	TC7WH04FK
IC503	051-3774-90	NJM11100F1
IC701	051-3741-91	NJW4184U2-33A
IC702	051-3519-90	NJU7771F05-TE2
IC703	----------	MAX16933ATIR/V+T (Buck Controller) (TQFN-EP) (366390-051)
J201	074-4017-28	28P
J301	074-4017-20	20P
J601	074-2306-10	60P
J602	074-2306-90	40P
L102	119-0000-05	1/10W 0 ohm JW
L202	010-3442-50	LBM2016T3R3J
L206	010-3104-54	600 ohm/100MHz
L301	010-3105-62	1k ohm/100MHz
L307	BMZ0211	BLM18PG121SN1D
L308	010-3104-53	220 ohm/100MHz
L309	010-3105-62	1k ohm/100MHz
L310	010-3105-62	1k ohm/100MHz
L311	010-3105-62	1k ohm/100MHz
L600	010-3104-53	220 ohm/100MHz
L601	010-3127-91	220 ohm/100MHz
L602	010-3127-91	220 ohm/100MHz
L701	010-3105-62	1k ohm/100MHz
L702	010-3075-56	10uH
L703	010-3075-57	22uH
L704	010-3581-50	NRS8040T4R7NJGJV
L705	010-3104-55	MPZ1608S102AT
P501	076-0569-02	2P
P701	076-6021-56	6P
P702	076-6021-60	10P
Q201	192-4081-00	2SC4081
Q204	191-1197-50	2SB1197K Q,R
Q205	125-2026-91	UNR5211G
Q206	125-2046-91	DTC114EUBTL
Q207	190-1586-00	2SA1586 O,Y,G
Q309	125-9028-90	UMX1N-TN

REF NO.	PART NO.	DESCRIPTION
Q501	192-4081-00	2SC4081
Q502	191-1197-50	2SB1197K Q,R
Q503	125-2026-91	UNR5211G
Q701	125-8048-90	SQJ942EP-T1-GE3
Q702	125-8048-90	SQJ942EP-T1-GE3
R135	033-0000-05	1/16W 0 ohm
R136	033-0000-05	1/16W 0 ohm
R141	119-0000-05	1/10W 0 ohm JW
R203	116-6811-15	1/4W 680 ohm
R204	032-0221-74	1/16W 10k ohm 1%
R205	032-0221-63	1/16W 12k ohm F
R207	033-1031-15	1/16W 10k ohm J
R208	033-1031-15	1/16W 10k ohm J
R209	032-0221-08	1/16W 1k ohm F
R210	117-2211-15	1/8W 220 ohm
R211	119-0000-05	1/10W 0 ohm JW
R217	032-0221-56	1/16W 22k ohm F
R219	032-0221-56	1/16W 22k ohm F
R220	032-0221-63	1/16W 12k ohm F
R221	032-0221-63	1/16W 12k ohm F
R222	032-0221-63	1/16W 12k ohm F
R223	032-0221-63	1/16W 12k ohm F
R224	032-0221-62	1/16W 8.2k ohm F
R225	032-0221-62	1/16W 8.2k ohm F
R226	032-0221-62	1/16W 8.2k ohm F
R227	032-0221-62	1/16W 8.2k ohm F
R231	119-0000-05	1/10W 0 ohm JW
R235	033-1031-15	1/16W 10k ohm J
R236	033-2731-15	1/16W 27k ohm J
R237	032-0176-00	1/3W 1k ohm J
R238	119-0000-05	1/10W 0 ohm JW
R242	119-0000-05	1/10W 0 ohm JW
R243	032-0222-03	1/4W 470 ohm F
R245	032-0222-03	1/4W 470 ohm F
R246	032-0222-03	1/4W 470 ohm F
R247	032-0222-03	1/4W 470 ohm F
R248	119-0000-05	1/10W 0 ohm JW
R252	032-0225-70	1/16W 130k ohm 0.5%
R253	032-0221-76	1/16W 24k ohm F
R265	116-1021-15	1/4W 1k ohm
R266	116-1051-15	1/4W 1M ohm
R270	119-0000-05	1/10W 0 ohm JW
R273	032-0210-71	1/10W 16k ohm 1%
R274	032-0221-09	1/16W 33k ohm F
R275	032-0225-64	1/16W 9.1k ohm +/- 0.5%
R276	032-0221-11	1/16W 5.6k ohm F
R277	032-0210-71	1/10W 16k ohm 1%
R278	032-0221-57	1/16W 13k ohm F
R279	032-0221-09	1/16W 33k ohm F
R280	032-0092-51	1/8W 1k ohm F
R281	117-2221-15	1/8W 2.2k ohm
R283	119-0000-05	1/10W 0 ohm JW
R289	032-0225-59	1/16W 4.3k ohm 0.5%
R290	033-3331-15	1/16W 33k ohm J
R296	032-0221-60	1/16W 3.9k ohm F
R297	032-0221-95	1/16W 2.7k ohm F
R298	119-0000-05	1/10W 0 ohm JW
R299	116-1011-15	1/4W 100 ohm
R301	032-0209-50	1/4W 82 ohm D
R302	032-0210-74	1/10W 470 ohm F
R304	119-0000-05	1/10W 0 ohm JW
R333	032-0210-64	1/10W 1k ohm F
R339	032-0221-08	1/16W 1k ohm F
R340	119-0000-05	1/10W 0 ohm JW
R341	119-0000-05	1/10W 0 ohm JW
R342	119-0000-05	1/10W 0 ohm JW
R347	032-0210-59	1/10W 5.6k ohm F
R348	032-0210-56	1/10W 22k ohm F
R349	AQZ0692	1/3W 1.2k ohm J

REF NO.	PART NO.	DESCRIPTION
R350	119-0000-05	1/10W 0 ohm JW
R351	033-4731-15	1/16W 47k ohm J
R358	032-0209-50	1/4W 82 ohm D
R359	032-0221-72	1/16W 470 ohm F
R360	032-0221-08	1/16W 1k ohm F
R501	116-5101-15	1/4W 51 ohm
R502	033-1541-15	1/16W 150k ohm J
R503	033-2221-15	1/16W 2.2k ohm J
R504	033-1031-15	1/16W 10k ohm J
R505	116-1511-15	1/4W 150 ohm
R506	116-2711-15	1/4W 270 ohm
R511	119-0000-05	1/10W 0 ohm JW
R513	119-0000-05	1/10W 0 ohm JW
R516	032-0221-65	1/16W 68k ohm F
R517	032-0221-09	1/16W 33k ohm F
R518	033-4731-15	1/16W 47k ohm J
R520	119-0000-05	1/10W 0 ohm JW
R521	119-0000-05	1/10W 0 ohm JW
R522	119-0000-05	1/10W 0 ohm JW
R523	032-0092-51	1/8W 1k ohm F
R524	117-2221-15	1/8W 2.2k ohm
R526	033-0000-05	1/16W 0 ohm
R529	033-0000-05	1/16W 0 ohm
R530	033-0000-05	1/16W 0 ohm
R622	033-0000-05	1/16W 0 ohm
R624	033-0000-05	1/16W 0 ohm
R626	033-0000-05	1/16W 0 ohm
R629	033-0000-05	1/16W 0 ohm
R630	033-0000-05	1/16W 0 ohm
R636	033-0000-05	1/16W 0 ohm
R658	033-0000-05	1/16W 0 ohm
R662	033-0000-05	1/16W 0 ohm
R701	032-0221-09	1/16W 33k ohm F
R702	032-0221-65	1/16W 68k ohm F
R704	033-0000-05	1/16W 0 ohm
R705	033-3391-15	1/16W 3.3 ohm J
R706	033-3391-15	1/16W 3.3 ohm J
R708	033-0000-05	1/16W 0 ohm
R709	033-0000-05	1/16W 0 ohm
R710	033-0000-05	1/16W 0 ohm
R711	033-4791-15	1/16W 4.7 ohm
R712	032-0225-58	1/16W 20k ohm +/- 0.5%
R713	032-0221-10	1/16W 15k ohm F
R714	032-0221-06	1/16W 100k ohm F
R715	032-0221-72	1/16W 470 ohm F
R716	032-0221-56	1/16W 22k ohm F
R717	032-0221-72	1/16W 470 ohm F
R718	033-0000-05	1/16W 0 ohm
R719	033-0000-05	1/16W 0 ohm
R720	033-0000-05	1/16W 0 ohm
R721	033-4791-15	1/16W 4.7 ohm
R722	032-0225-58	1/16W 20k ohm +/- 0.5%
R723	033-0000-05	1/16W 0 ohm
R724	032-0221-75	1/16W 47k ohm F
R725	032-0253-50	2W 8m ohm
R726	032-0253-50	2W 8m ohm
R728	033-0000-05	1/16W 0 ohm
R729	033-1011-15	1/16W 100 ohm J
R730	119-0000-05	1/10W 0 ohm JW
R731	119-0000-05	1/10W 0 ohm JW
R732	119-0000-05	1/10W 0 ohm JW
R733	119-0000-05	1/10W 0 ohm JW
R734	119-0000-05	1/10W 0 ohm JW
R735	119-0000-05	1/10W 0 ohm JW
R736	116-1811-15	1/4W 180 ohm
VR201	001-9213-50	EZJZ1V270EA
ZD205	001-4305-19	UDZSTE-17 5.1B
PWB	039-4619-00	PWB(WITHOUT COMPONENTS)