

Bill of the Material for SD225 UHF2

Mechanical ASS'Y						
Item	Part No.	Value	Part Name	Qty	Reference	Manufacturer
1	UG-1094/U(F)		BNC CONNECTOR	1		SAMWOO
2			UPPER COVER	1		AIM TECHNOLOGY
3			BOTTOM COVER	1		AIM TECHNOLOGY
4			VCO-CAN SPTE 0.3T	1		AIM TECHNOLOGY
5			DD-CAN SPTE 0.3T	1		AIM TECHNOLOGY
6			HEAT SINK BSP 1.0T NI-PL	1		AIM TECHNOLOGY
7			MAIN SHEILD SPTE 0.3T	1		AIM TECHNOLOGY
8			POWER CAN SPTE 0.3T	1		AIM TECHNOLOGY
9			RF CAN SPTE 0.3T	1		AIM TECHNOLOGY
10			POST PILLER BSBM NI-PL (M3)	4		AIM TECHNOLOGY
11			D-SUB CONN. POST BSBM NI-PL 4.0	2		AIM TECHNOLOGY
12			D-SUB CONN. PACKING(9P) RUBBER SHEET 1.0T	1		AIM TECHNOLOGY

RF BOARD ASS'Y						
Item	Part No.	Value	Part Name	Qty	Reference	Manufacturer
1	RC1005J000CS	0	Chip resistor - 0402 (LINK)	7	LK1 LK4 LK6 LK8-9 LK12 C62	SAMSUNG
2	RC1005J000CS	0	Chip resistor - 0402	1	R105	SAMSUNG
3	RC1005J100CS	10	Chip resistor - 0402	1	R53	SAMSUNG
4	RC1005J180CS	18	Chip resistor - 0402	3	R13 R33 R(C62)	SAMSUNG
5	RC1005J330CS	33	Chip resistor - 0402	1	R98	SAMSUNG
6	RC1005J390CS	39	Chip resistor - 0402	1	R62	SAMSUNG
7	RC1005J470CS	47	Chip resistor - 0402	2	R17 R64	SAMSUNG
8	RC1005J510CS	51	Chip resistor - 0402	3	R5-6 R68	SAMSUNG
9	RC1005J101CS	100	Chip resistor - 0402	9	R1-2 R12 R14 R38 R49 R70 R88 R120	SAMSUNG
10	RC1005J121CS	120	Chip resistor - 0402	1	R39	SAMSUNG
11	RC1005J221CS	220	Chip resistor - 0402	2	R31 R56	SAMSUNG
12	RC1005J301CS	300	Chip resistor - 0402	4	R34 R32 R66-67	SAMSUNG
13	RC1005J681CS	680	Chip resistor - 0402	1	R55	SAMSUNG
14	RC1005J102CS	1K	Chip resistor - 0402	4	R47 R69 R85 R87	SAMSUNG
15	RC1005J122CS	1.2K	Chip resistor - 0402	3	R28 R22 R97	SAMSUNG
16	RC1005J152CS	1.5K	Chip resistor - 0402	1	R48	SAMSUNG
17	RC1005J182CS	1.8K	Chip resistor - 0402	1	R73	SAMSUNG
18	RC1005J222CS	2.2K	Chip resistor - 0402	3	R54 R72 R104	SAMSUNG
19	RC1005J272CS	2.7K	Chip resistor - 0402	2	R10-11	SAMSUNG
20	RC1005J332CS	3.3K	Chip resistor - 0402	1	R50	SAMSUNG
21	RC1005J392CS	3.9K	Chip resistor - 0402	1	R101	SAMSUNG
22	RC1005J472CS	4.7K	Chip resistor - 0402	3	R90 R95 R30	SAMSUNG
23	RC1005J562CS	5.6K	Chip resistor - 0402	3	R9 R29 R96	SAMSUNG
24	RC1005J682CS	6.8K	Chip resistor - 0402	1	R36	SAMSUNG
25	RC1005J103CS	10K	Chip resistor - 0402	12	R16 R20 R24 R26 R46 R82 R7 R107 R109-111 R8	SAMSUNG
26	RC1005J123CS	12K	Chip resistor - 0402	2	R35 R52	SAMSUNG
27	RC1005J153CS	15K	Chip resistor - 0402	1	R100	SAMSUNG
28	RC1005J203CS	20K	Chip resistor - 0402	4	R102-103 R23 R108	SAMSUNG
29	RC1005J333CS	33K	Chip resistor - 0402	1	R21	SAMSUNG
30	RC1005J473CS	47K	Chip resistor - 0402	2	R15 R91	SAMSUNG
31	RC1005J513CS	51K	Chip resistor - 0402	1	R94	SAMSUNG
32	RC1005J104CS	100K	Chip resistor - 0402	1	R93	SAMSUNG
33	RC1005J184CS	180K	Chip resistor - 0402	1	R92	SAMSUNG
34	RC1005J474CS	470K	Chip resistor - 0402	2	R71 R86	SAMSUNG
35	RC1005J684CS	680K	Chip resistor - 0402	1	R25	SAMSUNG
36	RC1005J105CS	1M	Chip resistor - 0402	2	R51 R106	SAMSUNG
37	RC1005J475CS	4.7M	Chip resistor - 0402	1	R57	SAMSUNG
38	RC1608J911CS	910	Chip resistor - 0603	2	R3-4	SAMSUNG
39	RC1608F683CS	68K	Chip resistor - 0603	2	R58 R60	SAMSUNG
40	RC1608F104CS	100K	Chip resistor - 0603	2	R59 R61	SAMSUNG
41	RC2012J000CS	0	Chip resistor - 0805	2	R42 R(C16)	SAMSUNG
42	RC2012J2R2CS	2.2	Chip resistor - 0805	3	R43-45	SAMSUNG
43	RC2012J474CS	470K	Chip resistor - 0805	3	R40-41 R65	SAMSUNG
44		0.1	Chip resistor - 1218	1	R63	YAGEO
45	RH03ADC14X	10KB	VRES	2	RV3-4	ALPS
46	RH03ADC54X	47KB	VRES	1	RV1	ALPS
47	RH03ADC15X	100KB	VRES	1	RV2	ALPS
48	GRM1555C1H2R4C	2.4pF	Chip ceramic cap. - 0402	1	C24	MURATA
49	GRM1555C1H3R0C	3pF	Chip ceramic cap. - 0402	1	C21	MURATA
50	GRM1555C1H3R9C	3.9pF	Chip ceramic cap. - 0402	1	C33	MURATA
51	GRM1555C1H5R0C	5pF	Chip ceramic cap. - 0402	2	C25 C100	MURATA
52	GRM1555C1H6R0D	6pF	Chip ceramic cap. - 0402	1	C8	MURATA
53	GRM1555C1H6R8D	6.8pF	Chip ceramic cap. - 0402	1	C28	MURATA
54	GRM1555C1H100D	10pF	Chip ceramic cap. - 0402	1	C29	MURATA
55	GRM1555C1H110J	11pF	Chip ceramic cap. - 0402	1	C31	MURATA
56	GRM1555C1H150J	15pF	Chip ceramic cap. - 0402	1	C77	MURATA
57	GRM1555C1H200J	20pF	Chip ceramic cap. - 0402	1	C30	MURATA
58	GRM1555C1H270J	27pF	Chip ceramic cap. - 0402	2	C32 C78	MURATA
59	GRM1555C1H300J	30pF	Chip ceramic cap. - 0402	1	C70	MURATA
60	GRM1555C1H330J	33pF	Chip ceramic cap. - 0402	1	C79	MURATA
61	GRM1555C1H470J	47pF	Chip ceramic cap. - 0402	1	C102	MURATA
62	GRM1555C1H820J	82pF	Chip ceramic cap. - 0402	2	C64 C73	MURATA
63	GRM1555C1H221J	220pF	Chip ceramic cap. - 0402	7	C5 C9 C18 C23 C49 C98 C101	MURATA
64	GRM155R71H471J	470pF	Chip ceramic cap. - 0402	22	C42-44 C48 C50 C53 C55-60 C19-20 C7 C89-90 C92 C13 C112 C26-27	MURATA
65	GRM155R71H102K	0.001uF	Chip ceramic cap. - 0402	7	C71 C75 C15 C81 C108-109 C114	MURATA
66	GRM155R71H472K	0.0047uF	Chip ceramic cap. - 0402	2	C94 C93	MURATA

67	GRM155R71E103K	0.01uF	Chip ceramic cap. - 0402	8	C80 C84 C86 C45 C11 C103 C117 C69	MURATA
68	GRM155R61A104K	0.1uF	Chip ceramic cap. - 0402	17	C14 C46 C10 C72 C74 C76 C85 C87 C95 C97 C110-111 C116 C118 C131-133	MURATA
69		0.22uF	Chip ceramic cap. - 0402	1	C120	MURATA
70	CL10C110JB8NNNC	11pF	Chip ceramic cap. - 0603	1	C66	SAMSUNG
71	CL10C220JB8NNNC	22pF	Chip ceramic cap. - 0603	1	C65	SAMSUNG
72	CL21CR75BBAANN	0.75pF	Chip ceramic cap. - 0805	1	C41	SAMSUNG
73	CL21C010BBAANN	1pF	Chip ceramic cap. - 0805	1	C35	SAMSUNG
74	CL21C2R4CBAANN	2.4pF	Chip ceramic cap. - 0805	1	C36	SAMSUNG
75	CL21C5R6DBAANN	5.6pF	Chip ceramic cap. - 0805	1	C39	SAMSUNG
76	CL21C090DBAANN	9pF	Chip ceramic cap. - 0805	1	C37	SAMSUNG
77	CL21C100DBANN	10pF	Chip ceramic cap. - 0805	2	C38 C61	SAMSUNG
78	CL21C471JBAANN	470pF	Chip ceramic cap. - 0805	2	C40 C34	SAMSUNG
79	CL21B474KOFNNNE	0.47uF	Chip ceramic cap. - 0805	1	C54	SAMSUNG
80	CL21B105KOFNNNE	1uF	Chip ceramic cap. - 0805	3	C22 C68 C99	SAMSUNG
81	ECHU1H103JX5	0.01uF	METAL-POLY CAP	2	C3-4	PANASONIC
82	ECHU1H223JX5	0.022uF	METAL-POLY CAP	1	C2	PANASONIC
83	ECPU1C334MA5	0.33uF	METAL-POLY CAP	1	C1	PANASONIC
84	TCSVN1D474KAAR	0.47uF/20V	Tantalum Capacitor - A type	1	C51	SAMSUNG
85	TCSVN1C105MAAR	1uF/16V	Tantalum Capacitor - A type	1	C128	SAMSUNG
86	TCSVS1D225MAAR	2.2uF/20V	Tantalum Capacitor - A type	1	C12	SAMSUNG
87	TCSVS1A475MAAR	4.7uF/10V	Tantalum Capacitor - A type	3	C82 C91 C52	SAMSUNG
88	TCSVS0J106MAAR	10uF/6.3V	Tantalum Capacitor - A type	5	C6 C17 C83 C88 C119	SAMSUNG
89	TCSVS1A106MAAR	10uF/10V	Tantalum Capacitor - A type	1	C47	SAMSUNG
90	2X0.75X3T:L	3T	COIL SPRING	3	L7-9	SANHA
91	1X0.35X7T:R	7T	COIL SPRING	1	L10	SANHA
92	0805CS-180XGLC	18nH	Wire wound inductor	5	L2-5 L14	COILCRAFT
93	0805CS-151XJLC	150nH	Wire wound inductor	1	L11	COILCRAFT
94	0805CS-561XJLC	560nH	Wire wound inductor	1	L12	COILCRAFT
95	0805CS-821XJLC	820nH	Wire wound inductor	1	L6	COILCRAFT
96	0805LS-102XJLC	1.0uH	Wire wound inductor	1	L15	COILCRAFT
97	0805LS-272XJLC	2.7uH	Wire wound inductor	1	L16	COILCRAFT
98	1008LS103XJLC	10uH	Wire wound inductor	1	L1	COILCRAFT
99	617PT-1019		RF TRANSFORMER	2	T1-2	TOKO
100	UPP9401		PIN DIODE	2	D3 D5	MICRO SEMI
101	HSMS2817		RF SCHOTTKY RING DIODE	1	D6	AGILENT
102	BFR92A		NPN 5GHZ WIDEBAND TR	3	Q9 Q19 Q16	PHILIPS
103	PBR951		UHF WIDEBAND TR	1	Q10	PHILIPS
104	KRA104S		PNP TR WITH BIAS RESISTOR	1	Q7 Q22	KEC
105	KRA110S		PNP TR WITH BIAS RESISTOR	2	Q1-2	KEC
106	KRC104S		NPN TR WITH BIAS RESISTOR	4	Q13-14 Q17-18	KEC
107	KTA2014		GENERAL PURPOSE PNP TR	2	Q5-6	KEC
108	KTA1663		HIGH CURRENT PNP TR	1	Q11	KEC
109	KTC4075		GENERAL PURPOSE NPN TR	2	Q3-4	KEC
110	KTC3875		GENERAL PURPOSE NPN TR	4	Q8 Q12 Q15 Q20	KEC
111	NJM12904V		Dual Operational Amplifier	2	IC3 IC5	JRC
112	MB15E03SL		PLL IC	1	IC2	FUJITSU
113	MC74HC4066ADT		Analog Switch	1	IC9	PHILIPS
114	NJM324V		Quad Operational Amplifier	1	IC4	JRC
115	TK71733S	3.3V	Voltage regulator	1	IC7	TOKO
116	TK71750S	5.0V	Voltage regulator	1	IC1	TOKO
117	TA31136FN		IF IC	1	IC6	TOSHIBA
118	GS41350	12.8MHZ	TCXO	1	TCX01	HERTZ
119	45N1564	45.1MHZ	X-TAL FILTER	2	XF1-2	HERTZ
120		44.645MHZ	X-TAL	1	X1	INTERQUIPE
121	CDBC455CX24		CERAMIC DISCRIMINATOR	1	Y1	MURATA
122	LTM455FW	455KHZ	CERAMIC FILTER	1	CF3	
123	LTM455HT	455KHZ	CERAMIC FILTER	1	CF4	
124	CON18		18PIN DUAL LINE HEADER	1	CON1	FINE
125			PCB	1		

TX-VCO ASS'Y

Item	Part No.	Value	Part Name	Qty	Reference	Manufacturer
1	RC1005J000CS	0	Chip resistor - 0402	1	R201	SAMSUNG
2	RC1005J101CS	100	Chip resistor - 0402	1	R202	SAMSUNG
3	RC1005J271CS	270	Chip resistor - 0402	1	R209	SAMSUNG
4	RC1005J222CS	2.2K	Chip resistor - 0402	2	R206-207	SAMSUNG
5	RC1005J472CS	4.7K	Chip resistor - 0402	1	R208	SAMSUNG
6	RC1005J104CS	100K	Chip resistor - 0402	1	R203	SAMSUNG
7	GRM1555C1HR50C	0.5pF	Chip ceramic cap. - 0402	1	C206	MURATA
8	GRM1555C1HR75C	0.75pF	Chip ceramic cap. - 0402	1	C204	MURATA
9	GRM1555C1H2R2C	2.2pF	Chip ceramic cap. - 0402	2	C205 C209	MURATA
10	GRM1555C1H2R7C	2.7pF	Chip ceramic cap. - 0402	1	C213	MURATA
11	GRM1555C1H3R3C	3.3pF	Chip ceramic cap. - 0402	1	C211	MURATA
12	GRM1555C1H3R6C	3.6pF	Chip ceramic cap. - 0402	1	C207	MURATA
13	GRM1555C1H4R0C	4pF	Chip ceramic cap. - 0402	1	C218	MURATA
14	GRM1555C1H6R0D	6pF	Chip ceramic cap. - 0402	1	C215	MURATA
15	GRM1555C1H9R0D	9pF	Chip ceramic cap. - 0402	1	C203	MURATA
16	GRM1555C1H120J	12pF	Chip ceramic cap. - 0402	1	C212	MURATA
17	GRM1555C1H221J	220pF	Chip ceramic cap. - 0402	2	C216-217	MURATA
18	GRM155R71H471J	470pF	Chip ceramic cap. - 0402	1	C201	MURATA
19	GRM155R71H102K	0.001uF	Chip ceramic cap. - 0402	1	C214	MURATA
20	TZV02Z060A100	6PF	CAP. TRIM	1	C208	MURATA
21	0805CS-220XGLC	22nH	WIRE WOUND INDUCTOR	1	L205	COILCRAFT
22	0805CS-101XGLC	100nH	WIRE WOUND INDUCTOR	1	L201	COILCRAFT
23	0805CS-471XJLC	470nH	WIRE WOUND INDUCTOR	1	L202	COILCRAFT
24	0805CS-821XJLC	820nH	WIRE WOUND INDUCTOR	1	L204	COILCRAFT
25	1.0X0.45X4T:R	4T	COIL SPRING	1	L203	SANHA
26	1SV229		VARICAP DIODE	2	D201-202	TOSHIBA

27	2SC4226		LOW NOISE AMPLIFIER	1	Q202	NEC
28	2SC5086		LOW NOISE AMPLIFIER	1	Q201	TOSHIBA

RX-VCO ASS'Y

Item	Part No.	Value	Part Name	Qty	Reference	Manufacturer
1	RC1005J000CS	0	Chip resistor - 0402	1	R302	SAMSUNG
2	RC1005J181CS	180	Chip resistor - 0402	1	R309	SAMSUNG
3	RC1005J222CS	2.2K	Chip resistor - 0402	2	R306-307	SAMSUNG
4	RC1005J472CS	4.7K	Chip resistor - 0402	1	R308	SAMSUNG
5	GRM1555C1H2R7C	2.7pF	Chip ceramic cap. - 0402	2	C309 C313	MURATA
6	GRM1555C1H4R0C	4pF	Chip ceramic cap. - 0402	2	C311 C318	MURATA
7	GRM1555C1H6R0D	6pF	Chip ceramic cap. - 0402	1	C307	MURATA
8	GRM1555C1H100D	10pF	Chip ceramic cap. - 0402	1	C315	MURATA
9	GRM1555C1H110J	11pF	Chip ceramic cap. - 0402	1	C312	MURATA
10	GRM1555C1H120J	12pF	Chip ceramic cap. - 0402	1	C303	MURATA
11	GRM1555C1H221J	220pF	Chip ceramic cap. - 0402	3	C301 C316-317	MURATA
12	TZV02Z060A100	6PF	CAP TRIM	1	C308	MURATA
13	0805CS-330XGLC	33nH	WIRE WOUND INDUCTOR	1	L305	COILCRAFT
14	0805CS-101XGLC	100nH	WIRE WOUND INDUCTOR	1	L301	COILCRAFT
15	0805CS-821XJLC	820nH	WIRE WOUND INDUCTOR	1	L304	COILCRAFT
16	1_0X0_45X4T:R	4T	COIL SPRING	1	L303	SANHA
17	1SV229		VARICAP DIODE	1	D301	TOSHIBA
18	2SC5086		LOW NOISE AMPLIFIER	2	Q301-302	TOSHIBA

FRONT-END ASS'Y

Item	Part No.	Value	Part Name	Qty	Reference	Manufacturer
1	RC1005J000CS	0R	Chip resistor - 0402	1	C607	SAMSUNG
2	RC1005J470CS	47	Chip resistor - 0402	1	R602	SAMSUNG
3	RC1005J473CS	47K	Chip resistor - 0402	1	R601	SAMSUNG
4	GRM1555C1H3R3C	3.3pF	Chip ceramic cap. - 0402	1	C622	MURATA
5	GRM1555C1H3R6C	3.6pF	Chip ceramic cap. - 0402	1	C604B	MURATA
6	GRM1555C1H4R7C	4.7pF	Chip ceramic cap. - 0402	1	C602	MURATA
7	GRM1555C1H5R0C	5pF	Chip ceramic cap. - 0402	1	C623	MURATA
8	GRM1555C1H5R6D	5.6pF	Chip ceramic cap. - 0402	2	C601 C621	MURATA
9	GRM1555C1H7R0D	7pF	Chip ceramic cap. - 0402	3	C604 C614-615	MURATA
10	GRM1555C1H9R0D	9pF	Chip ceramic cap. - 0402	1	C624	MURATA
11	GRM1555C1H100D	10pF	Chip ceramic cap. - 0402	1	C613	MURATA
12	GRM1555C1H110J	11pF	Chip ceramic cap. - 0402	1	C618	MURATA
13	GRM1555C1H120J	12pF	Chip ceramic cap. - 0402	1	C603	MURATA
14	GRM1555C1H130J	13pF	Chip ceramic cap. - 0402	5	C608 C616-617 C619-620	MURATA
15	GRM1555C1H200J	20pF	Chip ceramic cap. - 0402	1	C604A	MURATA
16	GRM1555C1H330J	33pF	Chip ceramic cap. - 0402	1	C605	MURATA
17	GRM1555C1H470J	47pF	Chip ceramic cap. - 0402	1	C609	MURATA
18	GRM1557H1H471J	470pF	Chip ceramic cap. - 0402	1	C611	MURATA
19	0805CS-080XGLC	8.2nH	WIRE WOUND INDUCTOR	1	L603	COIL CRAFT
20	0_30X0_90X4TR	10.5nH	COIL SPRING, SMD	5	L601-602 L605-606 L609	FUNABASHI UCHID
21	0_30X0_90X5TL	14nH	COIL SPRING, SMD	3	L604 L607-608	FUNABASHI UCHID
22	KDS226		SWITCHING DIODE	1	D601	KEC
23	AT-41532		LOW NOISE NPN TR	1	Q601	AGILENT

POWER AMP ASS'Y

Item	Part No.	Value	Part Name	Qty	Reference	Manufacturer
1	RC1005J6R8CS	6.8	Chip resistor - 0402	1	R703	SAMSUNG
2	RC1005J101CS	100	Chip resistor - 0402	1	R706	SAMSUNG
3	RC1005J221CS	220	Chip resistor - 0402	1	R707	SAMSUNG
4	RC1005J331CS	330	Chip resistor - 0402	1	R709	SAMSUNG
5	RC1005J222CS	2.2K	Chip resistor - 0402	1	R704	SAMSUNG
6	RC1005J272CS	2.7K	Chip resistor - 0402	1	R701	SAMSUNG
7	RC1005J682CS	6.8K	Chip resistor - 0402	1	R702	SAMSUNG
8	RC1608J103CS	10K	Chip resistor - 0603	1	R705	SAMSUNG
9	GRM1555C1H3R0C	3pF	Chip ceramic cap. - 0402	1	C704	MURATA
10	GRM1555C1H100D	10pF	Chip ceramic cap. - 0402	1	C702	MURATA
11	GRM1555C1H220J	22pF	Chip ceramic cap. - 0402	1	C701	MURATA
12	GRM1555C1H221J	220pF	Chip ceramic cap. - 0402	3	C700 C703 C706	MURATA
13	GRM15571E103K	0.01uF	Chip ceramic cap. - 0402	1	C709	MURATA
14	CL21C4R7BBAANNC	4.7pF	Chip ceramic cap. - 0805	1	C721	SAMSUNG
15	CL21C060CBAANNC	6pF	Chip ceramic cap. - 0805	2	C714 C722	SAMSUNG
16	CL21C080DBAANNC	8pF	Chip ceramic cap. - 0805	1	C705	SAMSUNG
17	CL21C160JBANNC	16pF	Chip ceramic cap. - 0805	1	C713	SAMSUNG
18	CL21C180JBANNC	18pF	Chip ceramic cap. - 0805	1	C716	SAMSUNG
19	CL21C300JBANNC	30pF	Chip ceramic cap. - 0805	1	C708	SAMSUNG
20	CL21C221JBANNC	220pF	Chip ceramic cap. - 0805	1	C712	SAMSUNG
21	CL21B102KBANNC	0.001uF	Chip ceramic cap. - 0805	1	C711	SAMSUNG
22	0603CS-3N9XGLW	3.9nH	Wire wound inductor	1	L704	COILCRAFT
23	0603LS-122XJLC	1.2uH	Wire wound inductor	1	L702	COILCRAFT
24	0_30X0_90X5TL	14nH	COIL SPRING, SMD	2	L701 L703	FUNABASHI UCHID
25	1_0X0_45X4T:R	4T	COIL SPRING	1	L705	SANHA
26	KDS181		SWITCHING DIODE	1	D701	KEC
27	2SK3476		N-CH POWER MOSFET	1	Q703	TOSHIBA
28	PBR951		UHF WIDEBAND TR	1	Q701	PHILIPS
29	BLT50		UHF POWER TR	1	Q702	PHILIPS

VOLTAGE DOUBLER ASS'Y

Item	Part No.	Value	Part Name	Qty	Reference	Manufacturer
1	RC2012J000CS	0	KDS226	1	D903	SAMSUNG
2	RC1005J100CS	10	RES0603	1	R908	SAMSUNG

3	RC1005J222CS	2.2K	RES0603	2	R905 R907	SAMSUNG
4	RC1005J472CS	4.7K	RES0603	1	R906	SAMSUNG
5	RC1005J752CS	7.5K	RES0603	2	R902 R904	SAMSUNG
6	RC1005J273CS	27K	RES0603	2	R901 R903	SAMSUNG
7	GRM1555C1H221J	220pF	CAP0603	2	C901-902	MURATA
8	GRM155R71E223K	0.022uF	CAP0603	5	C904-905 C908-910	MURATA
9	GRM155R61A104K	0.1uF	CAP0603	1	C911	MURATA
10	KDS226		SWITCHING DIODE	2	D901-902	KEC
11	KTA2014		GENERAL PURPOSE PNP TR	1	Q905	KEC
12	KTC4075		GENERAL PURPOSE NPN TR	4	Q901-904	KEC

DIGITAL BOARD ASS'Y

Item	Part No.	Value	Part Name	Qty	Reference	Manufacturer
1	RC1005J000CS	0R	Chip resistor - 0402	4	R462 R557 R561 R523	SAMSUNG
2	RC1608J000CS	0R	Chip resistor - 0603	16	LK421 LK423-424 LK413 LK409 LK427 LK415 LK407 LK417 LK431-432 LK411 LK419 LK435 LK404 LK439	SAMSUNG
3	RC2012J000CS	0R	Chip resistor - 0805	1	R(C508)	SAMSUNG
4	RC1005J100CS	10	Chip resistor - 0402	1	R475	SAMSUNG
5	RC1005J101CS	100	Chip resistor - 0402	11	R426 R458 R489 R505 R522 R423 R531 R535 R544 R549 R417	SAMSUNG
6	RC1005J121CS	120	Chip resistor - 0402	2	R510-511	SAMSUNG
7	RC1005J151CS	150	Chip resistor - 0402	1	R472	SAMSUNG
8	RC1005J221CS	220	Chip resistor - 0402	2	R488 R487	SAMSUNG
9	RC1005J821CS	820	Chip resistor - 0402	1	R528	SAMSUNG
10	RC1005J122CS	1.2K	Chip resistor - 0402	2	R563 R443	SAMSUNG
11	RC1005J242CS	2.4K	Chip resistor - 0402	1	R526	SAMSUNG
12	RC1005J302CS	3K	Chip resistor - 0402	1	R427	SAMSUNG
13	RC1005J332CS	3.3K	Chip resistor - 0402	1	R419	SAMSUNG
14	RC1005J392CS	3.9K	Chip resistor - 0402	1	R429	SAMSUNG
15	RC1005J472CS	4.7K	Chip resistor - 0402	5	R437 R428 R503-504 R515	SAMSUNG
16	RC1005J512CS	5.1K	Chip resistor - 0402	2	R441 R446	SAMSUNG
17	RC1005J912CS	9.1K	Chip resistor - 0402	1	R445	SAMSUNG
18	RC1005J103CS	10K	Chip resistor - 0402	31	R444 R455-457 R460-461 R403 R466 R469 R471 R476 R483 R492-496 R533 R551 R409-410 R564 R411 R425 R412 R574 R413-416 R585	SAMSUNG
19	RC1005J113CS	11K	Chip resistor - 0402	1	R554	SAMSUNG
20	RC1005J153CS	15K	Chip resistor - 0402	1	R532	SAMSUNG
21	RC1005J183CS	18K	Chip resistor - 0402	1	R555	SAMSUNG
22	RC1005J203CS	20K	Chip resistor - 0402	2	R482 R478	SAMSUNG
23	RC1005J223CS	22K	Chip resistor - 0402	8	R530 R534 R485 R470 R565 R473 R569 R422	SAMSUNG
24	RC1005J273CS	27K	Chip resistor - 0402	2	R442 R430	SAMSUNG
25	RC1005J303CS	30K	Chip resistor - 0402	2	R440 R439	SAMSUNG
26	RC1005J333CS	33K	Chip resistor - 0402	1	R477	SAMSUNG
27	RC1005J363CS	36K	Chip resistor - 0402	1	R438	SAMSUNG
28	RC1005J393CS	39K	Chip resistor - 0402	1	R481	SAMSUNG
29	RC2012J433CS	43K	Chip resistor - 0805	2	R434 R436	SAMSUNG
30	RC1005J473CS	47K	Chip resistor - 0402	16	R506-507 R484 R516-519 R524-525 R435 R465 R447 R570 R501-502 R583	SAMSUNG
31	RC1608J473CS	47K	Chip resistor - 0603	1	R512	SAMSUNG
32	RC1005J563CS	56K	Chip resistor - 0402	1	R406	SAMSUNG
33	RC1005J683CS	68K	Chip resistor - 0402	1	R463	SAMSUNG
34	RC1005J823CS	82K	Chip resistor - 0402	1	R527	SAMSUNG
35	RC1005J104CS	100K	Chip resistor - 0402	19	R404 R448 R486 R453 R405 R536-539 R542-543 R407 R556 R408 R468 R402 R474 R459 R421	SAMSUNG
36	RC1005J124CS	120K	Chip resistor - 0402	2	R431-432	SAMSUNG
37	RC1005J184CS	180K	Chip resistor - 0402	1	R418	SAMSUNG
38	RC1005J224CS	220K	Chip resistor - 0402	6	R420 R479 R513 R529 R562 R567	SAMSUNG
39	RC1005J474CS	470K	Chip resistor - 0402	2	R550 R540	SAMSUNG
40	RC1005J684CS	680K	Chip resistor - 0402	1	R500	SAMSUNG
41	RC2012J364CS	360K	Chip resistor - 0805	1	R433	SAMSUNG
42	RC1005J105CS	1M	Chip resistor - 0402	1	R467	SAMSUNG
43		47K	Thermistor	1	RTH402	MURATA
44	RH03ADCJ4X	22KB	VRES	1	RV401	ALPS
45	RH03ADCS4X	47KB	VRES	1	RV402	ALPS
46	RH03ADCS3X	4.7KB	VRES	1	RV403	ALPS
47	GRM1555C1H330J	33pF	Chip ceramic cap. - 0402	2	C442 C441	MURATA
48	GRM1555C1H470J	47pF	Chip ceramic cap. - 0402	2	C415 C417	MURATA
49	GRM1555C1H910J	91pF	Chip ceramic cap. - 0402	1	C503	MURATA
50	GRM1555C1H121J	120pF	Chip ceramic cap. - 0402	2	C428 C497	MURATA
51	GRM1555C1H151J	150pF	Chip ceramic cap. - 0402	2	C401-402	MURATA
52	GRM1555C1H201J	200pF	Chip ceramic cap. - 0402	1	C440	MURATA
53	GRM1555C1H301J	300pF	Chip ceramic cap. - 0402	1	C423	MURATA
54	GRM155R71H471J	470pF	Chip ceramic cap. - 0402	9	C465 C467 C450 C481 C492-493 C496 C460 C517	MURATA
55	GRM155R71H561J	560pF	Chip ceramic cap. - 0402	1	C499	MURATA
56	GRM188R71H911J	910pF	Chip ceramic cap. - 0603	1	C412	MURATA
57	GRM155R71H102K	0.001uF	Chip ceramic cap. - 0402	7	C439 C464 C472-476	MURATA
58	CL21C102KBCNNC	0.001uF	Chip ceramic cap. - 0805	1	C468	SAMSUNG
59	GRM155R71H152K	0.0015uF	Chip ceramic cap. - 0402	2	C406 C502	MURATA
60	GRM155R71H222K	0.0022uF	Chip ceramic cap. - 0402	2	C405 C410	MURATA
61	GRM155R71H272K	0.0027uF	Chip ceramic cap. - 0402	1	C446	MURATA
62	GRM155R71H332K	0.0033uF	Chip ceramic cap. - 0402	4	C431 C407-408 C445	MURATA
63	GRM155R71H472K	0.0047uF	Chip ceramic cap. - 0402	1	C409	MURATA
64	GRM155R71E682K	0.0068uF	Chip ceramic cap. - 0402	1	C437	MURATA
65	GRM155R71E103K	0.01uF	Chip ceramic cap. - 0402	2	C500 C516	MURATA
66	GRM188R71E123K	0.012uF	Chip ceramic cap. - 0603	1	C411	MURATA

67	GRM155R71E223K	0.022uF	Chip ceramic cap. - 0402	3	C436 C434 C416	MURATA
68	GRM155R71E333K	0.033uF	Chip ceramic cap. - 0402	5	C427 C488-490 C426	MURATA
69	GRM155R71E473K	0.047uF	Chip ceramic cap. - 0402	6	C424-425 C451 C454 C491 C513	MURATA
70	CL21B823JBCNINC	0.082uF	Chip ceramic cap. - 0805	1	C429	SAMSUNG
71	GRM155R71C104K	0.1uF	Chip ceramic cap. - 0402	19	C403 C413 C418 C420 C432-433 C435 C443-444 C449 C452 C463 C466 C487 C498 C511-512 C514 C521	MURATA
72	CL21B684K0FNNNE	0.68uF	Chip ceramic cap. - 0805	1	C430	SAMSUNG
73	CL10A105K05LNNC	1uF	Chip ceramic cap. - 0603	1	C404	SAMSUNG
74	CL21A105K0FNNNE	1uF	Chip ceramic cap. - 0805	3	C438 C458 C422	SAMSUNG
75	TCSVN1C105MAAR	1uF/16V	Tantalum Capacitor - A type	6	C461 C421 C478 C482 C457 C504	SAMSUNG
76	TCSVS1A475MAAR	4.7uF/10V	Tantalum Capacitor - A type	4	C414 C419 C462 C494	SAMSUNG
77	TCSVS0J106MAAR	10uF/6.3V	Tantalum Capacitor - A type	4	C453 C459 C448 C507	SAMSUNG
78	TCSVS0J106MPAR	10uF/6.3V	Tantalum Capacitor - P type	1	C477	SAMSUNG
79	TCSVS1E226MDAR	22uF/25V	Tantalum Capacitor - D type	2	C469 C501	SAMSUNG
80	TCSVS1C476MDAR	47uF/16V	Tantalum Capacitor - D type	1	C455	SAMSUNG
81	TCSVS0J107MDAR	100uF/6.3V	Tantalum Capacitor - D type	1	C456	SAMSUNG
82	74275010		Ferrite Bead	1	F401	WURTH ELEKTRONIK
83	1008LS103XJL	10uH	Wire wound inductor	1	L401	COILCRAFT
84	CAT24WC04J	4K-Bit	Serial EEPROM	1	IC402	CATALYST
85	KIA324F		Quad Operational Amplifier	6	IC404-405 IC408 IC411 IC416-417	KEC
86	KIA7042AF		Voltage Detector	1	IC414	KEC
87	LM386M-1		Audio Power Amplifier	1	IC412	NATIONAL SEMICONDUCTOR
88	74HC4053PW		Analog Multiplexers	1	IC409	PHILIPS
89	74HC4053D		Analog Multiplexers	1	IC415	PHILIPS
90	74HC4066D		Analog Switch	2	IC406-407	PHILIPS
91	MSNBLPS		Switched Capacitor Filter	1	IC410	MSI
92	NJM12903V		Single Supply Dual Comparator	1	IC403	JRC
93	TC7S66FU		Bilateral Switch	1	IC418	TOSHIBA
94	TMP87PS68DF		Micro Controller Unit	1	IC401	TOSHIBA
95	KRA104S		PNP Transistor (with bias res.)	4	Q401-402 Q405 Q413	KEC
96	KRC104S		NPN Transistor (with bias res.)	6	Q403 Q406 Q408 Q410-411 Q418	KEC
97	KTA1504		General Purpose PNP TR	2	Q407 Q417	KEC
98	S3B		3.0A General Purpose Rectifier	1	D403	VISHAY
99	KDS181		Switching Diode	1	D402	KEC
100	Z02W5.6Y	5.6V	ZENER-DIODE	3	D404-406	KEC
101	L-115VEGW		LED	1	LED401	KING BRIGHT
102	8B000H5AE	8MHz	X-TAL	1	X401	INTERQUIPE
103			DIP Switch	1	SW401	KOREA RELAY
104	CON18S		DUAL LINE 18PIN SOCKET	1	CON405	FINE
105	CON06H		DUAL LINE 6PIN HEADER	1	CON407	FINE
106	CON06S		SINGLE LINE 6PIN SOCKET	1	CON404	FINE
107	DB9		9PIN MALE DB CONNECTOR	1	CON401	FINE
108	CON14S		SINGLE LINE 14PIN SOCKET	1	CON403	FINE
109			PCB	1		

DC-DC CONVERTER ASS'Y

Item	Part No.	Value	Part Name	Qty	Reference	Manufacturer
1		0.033	Chip resistor - 0805	1	R804	YAGEO
2	RC1005J103CS	10K	Chip resistor - 0402	1	R801	SAMSUNG
3	RC1005J203CS	20K	Chip resistor - 0402	1	R806	SAMSUNG
4	RC1005J363CS	36K	Chip resistor - 0402	1	R802	SAMSUNG
5	RC1005J683CS	68K	Chip resistor - 0402	1	R805	SAMSUNG
6	GRM1555C1H510J	51pF	Chip ceramic cap. - 0402	2	C801 C804	MURATA
7	GRM1555C1H101J	100pF	Chip ceramic cap. - 0402	3	C806 C805 C812	MURATA
8	GRM1555C1H331J	330pF	Chip ceramic cap. - 0402	1	C803	MURATA
9	CL10B103KB8NINC	0.01uF	Chip ceramic cap. - 0402	1	C810	SAMSUNG
10	CL10B104KA8NINC	0.1uF	Chip ceramic cap. - 0603	2	C802 C808	SAMSUNG
11	TCSVS1C475MAAR	4.7uF/16V	Tantalum Capacitor - A type	1	C813	SAMSUNG
12	TCSVS1E226MDAR	22uF/25V	Tantalum Capacitor - D type	1	C807	SAMSUNG
13	TCSVS1C107MDAR	100uF/16V	Tantalum Capacitor - D type	2	C811 C815	SAMSUNG
14	SD73-3R3M	3.3uH	SMD-POWER CHOKE	1	L802	COILS ELECTRONIC
15	DA104-120M	12uH	SMD-POWER CHOKE	1	L801	COILS ELECTRONIC
16	KDS160		SWITCHING DIODE	1	D801	KEC
17	MBSR140T3		Schottky Power Rectifier	1	D802	ON SEMICONDUCTOR
18	SI4412DY		Single N-Channel MOSFET	2	Q801-802	VISHAY
19	LTC1435ACS		Step-down Switching Regulator	1	IC801	LINEAR TECHNOLOGY