

Bill of the Material for SD225 UHF1

Mechanical ASS'Y							
Item	Part No.	Value	Part Name	Qty	Reference	Manufacturer	Supplier
1	UG-1094/U(F)		BNC CONNECTOR	1		SAMWOOD	
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 SHIELD 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	Supplier
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	RC1005J471CS	470	Chip resistor - 0402	1	R22	SAMSUNG	
14	RC1005J681CS	680	Chip resistor - 0402	1	R55	SAMSUNG	
15	RC1005J102CS	1K	Chip resistor - 0402	4	R47 R69 R85 R87	SAMSUNG	
16	RC1005J122CS	1.2K	Chip resistor - 0402	1	R28	SAMSUNG	
17	RC1005J152CS	1.5K	Chip resistor - 0402	1	R48	SAMSUNG	
18	RC1005J182CS	1.8K	Chip resistor - 0402	1	R73	SAMSUNG	
19	RC1005J222CS	2.2K	Chip resistor - 0402	3	R54 R72 R104	SAMSUNG	
20	RC1005J272CS	2.7K	Chip resistor - 0402	2	R10-11	SAMSUNG	
21	RC1005J332CS	3.3K	Chip resistor - 0402	1	R50	SAMSUNG	
22	RC1005J392CS	3.9K	Chip resistor - 0402	1	R101	SAMSUNG	
23	RC1005J472CS	4.7K	Chip resistor - 0402	3	R90 R95 R30	SAMSUNG	
24	RC1005J562CS	5.6K	Chip resistor - 0402	3	R9 R29 R96	SAMSUNG	
25	RC1005J682CS	6.8K	Chip resistor - 0402	1	R36	SAMSUNG	
26	RC1005J103CS	10K	Chip resistor - 0402	12	R16 R20 R24 R26 R46 R82 R7 R107 R109-111 R8	SAMSUNG	
27	RC1005J123CS	12K	Chip resistor - 0402	2	R35 R52	SAMSUNG	
28	RC1005J153CS	15K	Chip resistor - 0402	1	R100	SAMSUNG	
29	RC1005J203CS	20K	Chip resistor - 0402	4	R102-103 R23 R108	SAMSUNG	
30	RC1005J333CS	33K	Chip resistor - 0402	1	R21	SAMSUNG	
31	RC1005J473CS	47K	Chip resistor - 0402	2	R15 R91	SAMSUNG	
32	RC1005J513CS	51K	Chip resistor - 0402	1	R94	SAMSUNG	
33	RC1005J104CS	100K	Chip resistor - 0402	1	R93	SAMSUNG	
34	RC1005J184CS	180K	Chip resistor - 0402	1	R92	SAMSUNG	
35	RC1005J474CS	470K	Chip resistor - 0402	2	R71 R86	SAMSUNG	
36	RC1005J684CS	680K	Chip resistor - 0402	1	R25	SAMSUNG	
37	RC1005J105CS	1M	Chip resistor - 0402	2	R51 R106	SAMSUNG	
38	RC1005J475CS	4.7M	Chip resistor - 0402	1	R57	SAMSUNG	
39	RC1608J911CS	910	Chip resistor - 0603	2	R3-4	SAMSUNG	
40	RC1608F683CS	68K	Chip resistor - 0603	2	R58 R60	SAMSUNG	
41	RC1608F104CS	100K	Chip resistor - 0603	2	R59 R61	SAMSUNG	
42	RC2012J000CS	0	Chip resistor - 0805	2	R42 R(C16)	SAMSUNG	
43	RC2012J2R2CS	2.2	Chip resistor - 0805	3	R43-45	SAMSUNG	
44	RC2012J474CS	470K	Chip resistor - 0805	3	R40-41 R65	SAMSUNG	
45		0.1	Chip resistor - 1218	1	R63	YAGEO	
46	RH03ADC14X	10KB	VRES	3	RV1 RV3-4	ALPS	
47	RH03ADC15X	100KB	VRES	1	RV2	ALPS	
48	GRM1555C1H3ROC	3pF	Chip ceramic cap. - 0402	2	C21 C24	MURATA	
49	GRM1555C1H3R9C	3.9pF	Chip ceramic cap. - 0402	1	C33	MURATA	
50	GRM1555C1H5R0C	5pF	Chip ceramic cap. - 0402	2	C25 C100	MURATA	
51	GRM1555C1H6R0D	6pF	Chip ceramic cap. - 0402	1	C8	MURATA	
52	GRM1555C1H6R8D	6.8pF	Chip ceramic cap. - 0402	1	C28	MURATA	
53	GRM1555C1H120J	12pF	Chip ceramic cap. - 0402	2	C29 C31	MURATA	
54	GRM1555C1H150J	15pF	Chip ceramic cap. - 0402	1	C77	MURATA	
55	GRM1555C1H240J	24pF	Chip ceramic cap. - 0402	1	C30	MURATA	
56	GRM1555C1H270J	27pF	Chip ceramic cap. - 0402	2	C32 C78	MURATA	
57	GRM1555C1H300J	30pF	Chip ceramic cap. - 0402	1	C70	MURATA	
58	GRM1555C1H330J	33pF	Chip ceramic cap. - 0402	1	C79	MURATA	
59	GRM1555C1H470J	47pF	Chip ceramic cap. - 0402	1	C102	MURATA	
60	GRM1555C1H820J	82pF	Chip ceramic cap. - 0402	2	C64 C73	MURATA	
61	GRM1555C1H221J	220pF	Chip ceramic cap. - 0402	7	C5 C9 C18 C23 C49 C98 C101	MURATA	
62	GRM155R71H471J	470pF	Chip ceramic cap. - 0402	25	C42-44 C48 C50 C53 C55-60 C19-20 C7 C89-90 C92 C99 C13 C112 C26-27 C135 C137	MURATA	
63	GRM155R71H102K	0.001uF	Chip ceramic cap. - 0402	9	C71 C75 C15 C81 C108-109 C114 C136 C138	MURATA	
64	GRM155R71H472K	0.0047uF	Chip ceramic cap. - 0402	2	C94 C93	MURATA	
65	GRM155R71E103K	0.01uF	Chip ceramic cap. - 0402	8	C80 C84 C86 C45 C11 C103 C117 C69	MURATA	
66	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	
67		0.22uF	Chip ceramic cap. - 0402	1	C120	MURATA	
68	CL10C110JBANNNC	11pF	Chip ceramic cap. - 0603	1	C66	SAMSUNG	
69	CL10C220JBANNNC	22pF	Chip ceramic cap. - 0603	1	C65	SAMSUNG	
70	CL21CR75BBAANNNC	0.75pF	Chip ceramic cap. - 0805	1	C41	SAMSUNG	
71	CL21C1R5BBAANNNC	1.5pF	Chip ceramic cap. - 0805	1	C35	SAMSUNG	
72	CL21C3R3CBAANNNC	3.3pF	Chip ceramic cap. - 0805	1	C36	SAMSUNG	
73	CL21C0R0DBAANNNC	8pF	Chip ceramic cap. - 0805	1	C39	SAMSUNG	
74	CL21C140JBAANNNC	14pF	Chip ceramic cap. - 0805	1	C37	SAMSUNG	
75	CL21C160JBAANNNC	16pF	Chip ceramic cap. - 0805	2	C38 C61	SAMSUNG	
76	CL21C471JBAANNNC	470pF	Chip ceramic cap. - 0805	2	C40 C34	SAMSUNG	
77	CL21B474KOFNNNE	0.47uF	Chip ceramic cap. - 0805	1	C54	SAMSUNG	

78	CL21B105KOFNNE	1uF	Chip ceramic cap. - 0805	1	C68	SAMSUNG	
79	ECHU1H103JX5	0.01uF	METAL-POLY CAP	2	C3-4	PANASONIC	
80	ECHU1H223JX5	0.022uF	METAL-POLY CAP	1	C2	PANASONIC	
81	ECPU1C334MA5	0.33uF	METAL-POLY CAP	1	C1	PANASONIC	
82	TCSVN1D474KAAR	0.47uF/20V	Tantalum Capacitor - A type	1	C51	PARTSNI C	
83	TCSVNI1C105MAAR	1uF/16V	Tantalum Capacitor - A type	1	C128	PARTSNI C	
84	TCSVS1D225MAAR	2.2uF/20V	Tantalum Capacitor - A type	1	C12	PARTSNI C	
85	TCSVS1A475MAAR	4.7uF/10V	Tantalum Capacitor - A type	3	C82 C91 C52	PARTSNI C	
86	TCSVSOJ106MAAR	10uF/6.3V	Tantalum Capacitor - A type	5	C6 C17 C83 C88 C119	PARTSNI C	
87	TCSVS1A106MAAR	10uF/10V	Tantalum Capacitor - A type	1	C47	PARTSNI C	
88	TCSVSOJ106MPAR	10uF/6.3V	Tantalum Capacitor - P type	1	C22	PARTSNI C	
89	2X0.75X3T:L	3T	COIL SPRING	3	L7-9	FINE	
90	1X0.35X7T:R	7T	COIL SPRING	1	L10	FINE	
91	0805CS-180XGLC	18nH	Wire wound inductor	5	L2-5 L14	COILCRAFT	
92	0805CS-151XJLC	150nH	Wire wound inductor	1	L11	COILCRAFT	
93	0805CS-561XJLC	560nH	Wire wound inductor	1	L12	COILCRAFT	
94	0805CS-821XJLC	820nH	Wire wound inductor	1	L6	COILCRAFT	
95	0805LS-102XJLC	1.0uH	Wire wound inductor	1	L15	COILCRAFT	
96	0805LS-272XJLC	2.7uH	Wire wound inductor	1	L16	COILCRAFT	
97	1008LS103XJLC	10uH	Wire wound inductor	1	L1	COILCRAFT	
98	617PT-1019		RF TRANSFORMER	2	T1-2	TOKO	
99	KDS160		ULTRA HIGH SPEED SWITCHING DIODE	1	D7	KEC	
100	UPP9401		PIN DIODE	2	D3 D5	MICRO SEMI	
101	HMS2817		RF SCHOTTKY RING DIODE	1	D6	AGILENT	
102	2SJ243		P-CH MOSFET FOR SWITCHING	2	Q20 Q26	NEC	
103	BFR92A		NPN 5GHZ WIDEBAND TR	3	Q9 Q19 Q16	PHILIPS	
104	PBR951		UHF WIDEBAND TR	1	Q10	PHILIPS	
105	KRA104S		PNP TR WITH BIAS RESISTOR	1	Q7 Q22	KEC	
106	KRA110S		PNP TR WITH BIAS RESISTOR	2	Q1-2	KEC	
107	KRC104S		NPN TR WITH BIAS RESISTOR	4	Q13-14 Q17-18	KEC	
108	KTA2014		GENERAL PURPOSE PNP TR	2	Q5-6	KEC	
109	KTA1663		HIGH CURRENT PNP TR	1	Q11	KEC	
110	KTC4075		GENERAL PURPOSE NPN TR	3	Q3-4 Q8	KEC	
111	KTC3875		GENERAL PURPOSE NPN TR	2	Q12 Q15	KEC	
112	NUM12904V		Dual Operational Amplifier	2	IC3 IC5	JRC	
113	MB15E03SL		PLL IC	1	IC2	FUJITSU	
114	MC74HC4066ADT		Analog Switch	1	IC9	PHILIPS	
115	NUM324V		Quad Operational Amplifier	1	IC4	JRC	
116	TK71733S	3.3V	Voltage regulator	1	IC7	TOKO	
117	TK71750S	5.0V	Voltage regulator	1	IC1	TOKO	
118	TA31136FN		IF IC	1	IC6	TOSHIBA	
119	GS41350	12.8MHZ	TCXO	1	ICX01	HERTZ	
120	45N15B4	45.1MHZ	X-TAL FILTER	2	XF1-2	HERTZ	
121		44.645MHZ	X-TAL	1	X1	INTERQUIPE	
122	CDBC455CX24		CERAMIC DISCRIMINATOR	1	Y1	MURATA	
123	LTM455FW	455KHZ	CERAMIC FILTER	1	CF3		
124	TWM455HT	455KHZ	CERAMIC FILTER	1	CF4		
125	CON18		18PIN DUAL LINE HEADER	1	CON1	FINE	
126			PCB	1			

**TX-VCO ASS'Y**

Item	Part No.	Value	Part Name	Qty	Reference	Manufacturer	Supplier
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	GRM1555C1H850C	0.5pF	Chip ceramic cap. - 0402	2	C204 C206	MURATA	
8	GRM1555C1H1R2C	1.2pF	Chip ceramic cap. - 0402	1	C205	MURATA	
9	GRM1555C1H2R2C	2.2pF	Chip ceramic cap. - 0402	1	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	GRM1555C1H4R0C	4pF	Chip ceramic cap. - 0402	1	C218	MURATA	
13	GRM1555C1H6R0D	6pF	Chip ceramic cap. - 0402	2	C207 C215	MURATA	
14	GRM1555C1H120J	12pF	Chip ceramic cap. - 0402	2	C203 C212	MURATA	
15	GRM1555C1H221J	220pF	Chip ceramic cap. - 0402	2	C216-217	MURATA	
16	GRM155R71H471J	470pF	Chip ceramic cap. - 0402	1	C201	MURATA	
17	GRM155R71H102K	0.001uF	Chip ceramic cap. - 0402	1	C214	MURATA	
18	ITZV02Z060A100	6PF	CAP TRIM	1	C208	MURATA	
19	0805CS-270XGLC	27nH	WIRE WOUND INDUCTOR	1	L205	COILCRAFT	
20	0805CS-101XGLC	100nH	WIRE WOUND INDUCTOR	1	L201	COILCRAFT	
21	0805CS-471XJLC	470nH	WIRE WOUND INDUCTOR	1	L202	COILCRAFT	
22	0805CS-821XJLC	820nH	WIRE WOUND INDUCTOR	1	L204	COILCRAFT	
23	1_OX0.45X4T:R	4T	COIL SPRING	1	L203	FINE	
24	1SV229		VARI CAP DIODE	2	D201-202	TOSHIBA	
25	2SC4226		LOW NOISE AMPLIFIER	1	Q202	NEC	
26	2SC5086		LOW NOISE AMPLIFIER	1	Q201	TOSHIBA	

**RX-VCO ASS'Y**

Item	Part No.	Value	Part Name	Qty	Reference	Manufacturer	Supplier
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	GRM1555C1H5R6D	5.6pF	Chip ceramic cap. - 0402	1	C307	MURATA	
8	GRM1555C1H130J	13pF	Chip ceramic cap. - 0402	1	C303	MURATA	
9	GRM1555C1H150J	15pF	Chip ceramic cap. - 0402	2	C312 C315	MURATA	
10	GRM1555C1H221J	220pF	Chip ceramic cap. - 0402	3	C301 C316-317	MURATA	
11	ITZV02Z060A100	6PF	CAP TRIM	1	C308	MURATA	
12	0805CS-330XGLC	33nH	WIRE WOUND INDUCTOR	1	L305	COILCRAFT	
13	0805CS-101XGLC	100nH	WIRE WOUND INDUCTOR	1	L301	COILCRAFT	
14	0805CS-821XJLC	820nH	WIRE WOUND INDUCTOR	1	L304	COILCRAFT	
15	1_OX0.45X5T:R	5T	COIL SPRING	1	L303	FINE	
16	1SV229		VARI CAP DIODE	1	D301	TOSHIBA	
17	2SC5086		LOW NOISE AMPLIFIER	1	Q301	TOSHIBA	
18	BFQ67W		LOW NOISE AMPLIFIER	1	Q302	PHILIPS	

FRONT-END ASS'Y							
Item	Part No.	Value	Part Name	Qty	Reference	Manufacturer	Supplier
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	GRM1555C1H120J	12pF	Chip ceramic cap. - 0402	1	C603	MURATA	
12	GRM1555C1H130J	13pF	Chip ceramic cap. - 0402	3	C608 C616 C619	MURATA	
13	GRM1555C1H140J	14pF	Chip ceramic cap. - 0402	1	C618	MURATA	
14	GRM1555C1H160J	16pF	Chip ceramic cap. - 0402	1	C613	MURATA	
15	GRM1555C1H200J	20pF	Chip ceramic cap. - 0402	2	C617 C620	MURATA	
16	GRM1555C1H240J	24pF	Chip ceramic cap. - 0402	1	C604A	MURATA	
17	GRM1555C1H390J	39pF	Chip ceramic cap. - 0402	1	C605	MURATA	
18	GRM1555C1H470J	47pF	Chip ceramic cap. - 0402	1	C609	MURATA	
19	GRM155R71H471J	470pF	Chip ceramic cap. - 0402	1	C611	MURATA	
20	0805CS-100XGLC	10nH	WIRE WOUND INDUCTOR	1	L603	COIL CRAFT	
21	0.30X0.90X5TR	14nH	COIL SPRING, SMD	5	L601-602 L605-606 L609	FINE	
22	0.30X0.90X6TL	18nH	COIL SPRING, SMD	3	L604 L607-608	FINE	
23	KDS226		SWITCHING DIODE	1	D601	KEC	
24	AT-41532		LOW NOISE NPN TR	1	Q601	AGILENT	

POWER AMP ASS'Y							
Item	Part No.	Value	Part Name	Qty	Reference	Manufacturer	Supplier
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	GRM1555C1H6R8D	6.8pF	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	GRM155R71E103K	0.01uF	Chip ceramic cap. - 0402	1	C709	MURATA	
14	CL21C070CBAANNC	7pF	Chip ceramic cap. - 0805	2	C707 C721	SAMSUNG	
15	CL21C090CBAANNC	9pF	Chip ceramic cap. - 0805	2	C714 C722	SAMSUNG	
16	CL21C120DBAANNC	12pF	Chip ceramic cap. - 0805	1	C705	SAMSUNG	
17	CL21C180JBAANNC	18pF	Chip ceramic cap. - 0805	1	C716	SAMSUNG	
18	CL21C220JBAANNC	22pF	Chip ceramic cap. - 0805	1	C713	SAMSUNG	
19	CL21C390JBAANNC	39pF	Chip ceramic cap. - 0805	1	C708	SAMSUNG	
20	CL21C221JBAANNC	220pF	Chip ceramic cap. - 0805	1	C712	SAMSUNG	
21	CL21B102KBAANNC	0.001uF	Chip ceramic cap. - 0805	1	C711	SAMSUNG	
22	0805CS-050XJLC	5.6nH	Wire wound inductor	1	L704	COIL CRAFT	
23	0603LS-122XJLC	1.2uH	Wire wound inductor	1	L702	COIL CRAFT	
24	0.30X0.90X6TL	18nH	COIL SPRING, SMD	2	L701 L703	FINE	
25	1.0X0.45X4T-R	4T	COIL SPRING	1	L705	FINE	
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	Supplier
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	CAPO603	2	C901-902	MURATA	
8	GRM155R71E223K	0.022uF	CAPO603	5	C904-905 C908-910	MURATA	
9	GRM155R61A104K	0.1uF	CAPO603	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	Supplier
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	18	R404 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	RC1005J124CS	150K	Chip resistor - 0402	1	R448	SAMSUNG	
38	RC1005J184CS	180K	Chip resistor - 0402	1	R418	SAMSUNG	
39	RC1005J224CS	220K	Chip resistor - 0402	6	R420 R479 R513 R529 R562 R567	SAMSUNG	
40	RC1005J474CS	470K	Chip resistor - 0402	2	R550 R540	SAMSUNG	
41	RC1005J684CS	680K	Chip resistor - 0402	1	R500	SAMSUNG	
42	RC2012J364CS	360K	Chip resistor - 0805	1	R433	SAMSUNG	
43	RC1005J105CS	1M	Chip resistor - 0402	1	R467	SAMSUNG	
44		47K	Thermistor	1	RTH402	MURATA	
45	RH03ADCJ4X	22KB	VRES	1	RV401	ALPS	
46	RH03ADCS4X	47KB	VRES	1	RV402	ALPS	
47	RH03ADCS3X	4.7KB	VRES	1	RV403	ALPS	
48	GRM1555C1H330J	33pF	Chip ceramic cap. - 0402	2	C442 C441	MURATA	
49	GRM1555C1H470J	47pF	Chip ceramic cap. - 0402	2	C415 C417	MURATA	
50	GRM1555C1H910J	91pF	Chip ceramic cap. - 0402	1	C503	MURATA	
51	GRM1555C1H121J	120pF	Chip ceramic cap. - 0402	2	C428 C497	MURATA	
52	GRM1555C1H151J	150pF	Chip ceramic cap. - 0402	2	C401-402	MURATA	
53	GRM1555C1H201J	200pF	Chip ceramic cap. - 0402	1	C440	MURATA	
54	GRM1555C1H301J	300pF	Chip ceramic cap. - 0402	1	C423	MURATA	
55	GRM155R71H471J	470pF	Chip ceramic cap. - 0402	9	C465 C467 C450 C481 C492-493 C496 C460 C517	MURATA	
56	GRM155R71H561J	560pF	Chip ceramic cap. - 0402	1	C499	MURATA	
57	GRM188R71H911J	910pF	Chip ceramic cap. - 0603	1	C412	MURATA	
58	GRM155R71H102K	0.001uF	Chip ceramic cap. - 0402	7	C439 C464 C472-476	MURATA	
59	CL21C102KBCNNNC	0.001uF	Chip ceramic cap. - 0805	1	C468	SAMSUNG	
60	GRM155R71H152K	0.0015uF	Chip ceramic cap. - 0402	2	C406 C502	MURATA	
61	GRM155R71H222K	0.0022uF	Chip ceramic cap. - 0402	2	C405 C410	MURATA	
62	GRM155R71H272K	0.0027uF	Chip ceramic cap. - 0402	1	C446	MURATA	
63	GRM155R71H332K	0.0033uF	Chip ceramic cap. - 0402	4	C431 C407-408 C445	MURATA	
64	GRM155R71H472K	0.0047uF	Chip ceramic cap. - 0402	1	C409	MURATA	
65	GRM155R71E682K	0.0068uF	Chip ceramic cap. - 0402	1	C437	MURATA	
66	GRM155R71E103K	0.01uF	Chip ceramic cap. - 0402	2	C500 C516	MURATA	
67	GRM188R71E123K	0.012uF	Chip ceramic cap. - 0603	1	C411	MURATA	
68	GRM155R71E223K	0.022uF	Chip ceramic cap. - 0402	3	C436 C434 C416	MURATA	
69	GRM155R71E333K	0.033uF	Chip ceramic cap. - 0402	5	C427 C488-490 C426	MURATA	
70	GRM155R71E473K	0.047uF	Chip ceramic cap. - 0402	6	C424-425 C451 C454 C491 C513	MURATA	
71	CL21B823JBCNNNC	0.082uF	Chip ceramic cap. - 0805	1	C429	SAMSUNG	
72	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	
73	CL21B684KOFNNNE	0.68uF	Chip ceramic cap. - 0805	1	C430	SAMSUNG	
74	CL10A105K05LNNC	1uF	Chip ceramic cap. - 0603	1	C404	SAMSUNG	
75	CL21A105K0FNNNE	1uF	Chip ceramic cap. - 0805	3	C438 C458 C422	SAMSUNG	
76	TCSVN1C105MAAR	1uF/16V	Tantalum Capacitor - A type	6	C461 C421 C478 C482 C457 C504	SAMSUNG	
77	TCSVS1A475MAAR	4.7uF/10V	Tantalum Capacitor - A type	4	C414 C419 C462 C494	SAMSUNG	
78	TCSVS0J105MAAR	10uF/6.3V	Tantalum Capacitor - A type	4	C453 C459 C448 C507	SAMSUNG	
79	TCSVS0J106MPAR	10uF/6.3V	Tantalum Capacitor - P type	1	C477	SAMSUNG	
80	TCSVS1E226MDAR	22uF/25V	Tantalum Capacitor - D type	2	C469 C501	SAMSUNG	
81	TCSVS1C476MDAR	47uF/16V	Tantalum Capacitor - D type	1	C455	SAMSUNG	
82	TCSVS0J107MDAR	100uF/6.3V	Tantalum Capacitor - D type	1	C456	SAMSUNG	
83	Z4275010		Ferrite Bead	1	F401	WURTH ELEKTRONIK	
84	1008LS103XJL	10uH	Wire wound inductor	1	IL401	COILCRAFT	
85	CAT24WC04J	4K-Bit	Serial EEPROM	1	IC402	CATALYST	
86	K1A324F		Quad Operational Amplifier	6	IC404-405 IC408 IC411 IC416-417	KEC	
87	K1A7042AF		Voltage Detector	1	IC414	KEC	
88	LM386M-1		Audio Power Amplifier	1	IC412	NATIONAL SEMICONDUCTOR	
89	74HC4053PW		Analog Multiplexers	1	IC409	PHILIPS	
90	74HC4053D		Analog Multiplexers	1	IC415	PHILIPS	
91	74HC4066D		Analog Switch	2	IC406-407	PHILIPS	
92	MSNBLPS		Switched Capacitor Filter	1	IC410	MSI	
93	NUM12903V		Single Supply Dual Comparator	1	IC403	JRC	
94	TC7S66FU		Bilateral Switch	1	IC418	TOSHIBA	
95	TPM87PS68DF		Micro Controller Unit	1	IC401	TOSHIBA	
96	KRA104S		PNP Transistor (with bias res.)	4	Q401-402 Q405 Q413	KEC	
97	KRC104S		NPN Transistor (with bias res.)	6	Q403 Q406 Q408 Q410-411 Q418	KEC	
98	KTA1504		General Purpose PNP TR	2	Q407 Q417	KEC	
99	S3B		3.0A General Purpose Rectifier	1	D403	VISHAY	
100	KDS181		Switching Diode	1	D402	KEC	
101	Z02W5.6Y	5.6V	ZENER-DIODE	3	D404-406	KEC	
102	L-115VEGW		LED	1	LED401	KING BRIGHT	
103	8B000H5AE	8MHz	X-TAL	1	X401	INTERQUIPE	
104			DIP Switch	1	SW401	KOREA RELAY	
105	CON18S		DUAL LINE 18PIN SOCKET	1	CON405	FINE	
106	CON06H		DUAL LINE 6PIN HEADER	1	CON407	FINE	
107	CON06S		SINGLE LINE 6PIN SOCKET	1	CON404	FINE	
108	DB9		9PIN MALE DB CONNECTOR	1	CON401	FINE	
109	CON14S		SINGLE LINE 14PIN SOCKET	1	CON403	FINE	

110		PCB	1		
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**DC-DC CONVERTER ASS'Y**

Item	Part No.	Value	Part Name	Qty	Reference	Manufacturer	Supplier
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	CL10B103KB8NNNC	0.01uF	Chip ceramic cap. - 0402	1	C810	SAMSUNG	
10	CL10B104KA8NNNC	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	MBR5140T3		Schottky Power Rectifier	1	D802	ON SEMICONDUCTOR	
18	SI14412DY		Single N-Channel MOSFET	2	Q801-802	VISHAY	
19	LTC1435ACS		Step-down Switching Regulator	1	IC801	LINEAR TECHNOLOGY	