

Bill Of Materials for SD250NTG Modem, Ver. 1.0.0 - 03/23/2011

Bill Of Materials FOR NTG MODEM - SD250 CONTROL BOARD

Item	VALUE	Part Name	Qty	Reference	Manufacturer	Supplier
1	RC1005J000CS	0	RES0402,0R	1 R403	SAMSUNG	
2	RC1005J100CS	10	RES0402,10	3 R415 R425 R428	SAMSUNG	
3	RC1005J151CS	150	RES0402,150	1 R424	SAMSUNG	
4	RC1005J471CS	470	RES0402,470	3 R522 R533 R536	SAMSUNG	
5	RC1005J102CS	1K	RES0402,1K	7 R544-546 R548 R553-554 R557	SAMSUNG	
6	RC1005J112CS	1.1K, 1%	RES0402,1.1K	1 R514	SAMSUNG	
7	RC1005J122CS	1.2K	RES0402,1.2K	1 R408	SAMSUNG	
8	RC1005J202CS	2K	RES0402,2K	1 R547	SAMSUNG	
9	RC1005J103CS	10K	RES0402,10K	21 R401-402 R404 R406-407 R409-411 R416-419 R422 R429-430 R519 R539-543	SAMSUNG	
10	RC1005J23CS	22K	RES0402,22K	2 R423 R427	SAMSUNG	
11	RC1005J303CS	30K	RES0402,30K	1 R558	SAMSUNG	
12	RC1005J393CS	39K	RES0402,39K	1 R521	SAMSUNG	
13	RC1005J473CS	47K	RES0402,47K	2 R528 R556	SAMSUNG	
14	RC1005F5362CS	53.6K, 1%	RES0402,53.6K	1 R520	SAMSUNG	
15	RC1005F5762CS	57.6K, 1%	RES0402,57.6K	1 R504	SAMSUNG	
16	RC1005F6492CS	64.9K, 1%	RES0402,64.9K	1 R506	SAMSUNG	
17	RC1005J104CS	100K	RES0402,100K	4 R414 R426 R503 R505	SAMSUNG	
18	RC1005J474CS	470K	RES0402,470K	2 R420 R511	SAMSUNG	
19	RC1005J684CS	680K	RES0402,680K	1 R405	SAMSUNG	
20	RC1005J105CS	1M	RES0402,1M	1 R507	SAMSUNG	
21	RC1608J000CS	0R	RES0603,0R	7 R529-531 LK402-403 LK405-406	SAMSUNG	
22	RC2012J000CS	0R	LK0805,0R	1 LK401	SAMSUNG	
23	RC2012J102CS	1K	RES0805,1K	1 R518	SAMSUNG	
24	WM303E	WM303E	Thermistor,30K	1 RT501	Sensor Scientific	
25	GRM1555C1H180J	18pF	CAP0402,18pF	4 C524-525 C533 C535	MURATA	
26	GRM1555C1H200J	20pF	CAP0402,20pF	2 C504-505	MURATA	
27	GRM1555C1H220J	22pF	CAP0402,22pF	1 C503	MURATA	
28	GRM1555C1H181J	180pF	CAP0402,180pF	1 C529	MURATA	
29	GRM1555C1H471J	470pF	CAP0402,470pF	4 C411 C423 C430 C501	MURATA	
30	GRM155R71H102K	0.001uF	CAP0402,0.001uF	1 C410	MURATA	
31	GRM155R71H122K	0.0012uF	CAP0402,0.0012F	2 C546-547	MURATA	
32	GRM155R71E103K	0.01uF	CAP0402,0.01uF	2 C506 C541	MURATA	
33	GRM155R71C183K	0.018uF	CAP0402,0.018uF	2 C510 C512	MURATA	
34	GRM155R71E473K	0.047uF	CAP0402,0.047uF	2 C429 C434	MURATA	
35	GRM155R71C104K	0.1uF	CAP0402,0.1uF	24 C415 C418-419 C421 C424 C428 C502 C511 C519 C522-523 C531 C539 C557 C577-586	MURATA	
36	GRM155R60J105K	1uF	CAP0402,1uF	13 C412 C414 C420 C422 C425-427 C436 C507 C509 C561 C575 C587	MURATA	
37	GRM1885C1H241J	240pF	CAP0603,240pF	1 C530	MURATA	
38	GRM1885C1H271J	270pF	CAP0603,270pF	2 C549 C553	MURATA	
39	GRM188R71H104K	0.1uF	CAP0603,0.1uF	1 C517	MURATA	
40	GRM188R71C334K	0.33uF	CAP0603,0.33uF	4 C518 C520-521 C545	MURATA	
41	GRM188R60J105K	1uF	CAP0603,1uF	2 C544 C551	MURATA	
42	GRM188R71A225K	2.2uF	CAP0603,2.2uF	1 C558	MURATA	
43	GRM188R60J106M	10uF	CAP0603,10uF	1 C516	MURATA	
44	GRM2165C1H471J	470pF	CAP0805,470pF	1 C403	MURATA	
45	GRM2165C1H102J	0.001uF	CAP0805,0.001uF	1 C406	MURATA	
46	GRM21BR71H104K	0.1uF	CAP0805,0.1uF	1 C402	MURATA	
47	GRM21BR61C106K	10uF	CAP0805,10uF	5 C413 C417 C513 C540 C542	MURATA	
48	GRM32DR71E106K	10uF	CAP1210,10uF	2 C404-405	MURATA	
49	25RS100MD11	100uF	25RS100MD11,100uF,20%	1 C401	ENESOL	
50	TCSCS1C105KPAR	1uF	CAP-TAN-P,1uF,10%	1 C432	SAMSUNG	
51	TCSCS0J106KPAR	10uF	CAP-TAN-P,10uF,10%	1 C431	SAMSUNG	
52	TCSCS1A476KBAR	47uF	CAP-TAN-B,47uF,10%	1 C435	SAMSUNG	
53	TCSCS0J107MBAR	100uF	CAP-TAN-B,100uF,20%	1 C433	SAMSUNG	
54	0805LS-103XJLB	10uH	IND0805,10uH	4 L402 L501 L503 L508	COILCRAFT	
55	0805CS-271XJLB	270nH	IND0805,270nH	2 L504 L506	COILCRAFT	
56	AD5024BRUZ	AD5024BRUZ	IC, 12bit Quad nanoDAC, SPI	1 U506	ANALOG DEVICE	
57	AD5160BRJZ100-RL7	AD5160BRJZ100-RL7	IC, 8bit digital potentiometer, SPI, 100KOhm	1 U402	ANALOG DEVICE	
58	AD5160BRJZ50-RL7	AD5160BRJZ50-RL7	IC, 8bit digital potentiometer, SPI, 50KOhm	1 U401	ANALOG DEVICE	
59	ATMEGA16A-MU	ATMEGA16A-MU	IC, 8bit uController, 64K Flash, 4K RAM	1 U507	ATMEL	
60	ATMEGA64L-8AU	ATMEGA64L-8AU	IC, 8bit uController, 16K Flash, 1K RAM	1 U508	ATMEL	
61	CMX589AE2	CMX589AE2	IC, GMSK Modem	1 U501	CML	
62	KIA75S358F	KIA75S358F	Single Operational Amplifier	1 U513	KEC	
63	LM386	LM386	Audio Power Amplifier	1 U512	National Semiconductor	
64	LMP7704MT	LMP7704MT	IC, CMOS Input, RRIO Quad OPAMP	2 U503 U505	National Semiconductor	
65	MAX3238PIW	MAX3238PIW	IC, RS-232 LINE DRIVER/RECEIVER	1 U502	Texas Instruments	
66	MAX6193AESA	MAX6193AESA	IC, Precision, Micropower, LDO	1 U510	MAXIM	
67	MC74HC04ADTR2	MC74HC04ADTR2	IC, Hex Inverter	1 U509	ON Semiconductor	
68	MC74HCT244ADTG	MC74HCT244ADTG	IC, Octal 3-State Noninverting Buffer	1 U504	ON Semiconductor	
69	XC6201P502MR	XC6201P502MR	IC, LDO Voltage regulator - 5.0V	1 U511	TOREX	
70	HD01-T	HD01-T	Diode, Bridge Rectifier, 0.8A	1 D508	Diodes Inc.	
71	LTST-C190CKT	LTST-C190CKT	LED0603, Red	3 D511 D513 D517	Lite-on Inc.	
72	LTST-C190EKT	LTST-C190EKT	LED0603, Orange	1 D515	Lite-on Inc.	
73	LTST-C190GKT	LTST-C190GKT	LED0603, Green	3 D512 D514 D519	Lite-on Inc.	
74	LTST-C190YKT	LTST-C190YKT	LED0603, Yellow	1 D516	Lite-on Inc.	
75	S3B	S3B	Diode, 3.0A General Purpose Rectifier	1 D401	Fairchild	
76	H11D1M	H11D1M	High Voltage Phototransistor Optocouplers	1 Q501	Fairchild	
77	KRA304E	KRA304E	PNP TR WITH BIAS RESISTOR	2 Q401-402	KEC	
78	KRC404E	KRC404E	NPN TR WITH BIAS RESISTOR	8 Q403 Q502-508	KEC	
79	KTA2014E	KTA2014E	GENERAL PURPOSE PNP TR	1 Q509	KEC	
80	BFC036.56-20-533D	3.6567MHz	XTAL, HC-49US, 3.6567MHz, 20pF, 30PPM	1 X501	Brookdale	
81	BFC0368-18-533D	3.6864MHz	XTAL, HC-49US, 3.6864MHz, 18pF, 30PPM	1 X503	Brookdale	
82	ECS-73-18-4X-DN	7.3728MHz	XTAL, HC-49LP, 7.3728MHz, 18pF, 30PPM	1 X502	ECS	
83	I-1734078-4	DB15-HD	High Density DB-15 Female Connector	1 J501	Tyco Electronics	
84	FH-2209-0DB0-95	SCKT18	Dual-line 2.0mm pitch 18pin socket	1 CON405	Laster Technology Co. Ltd	
85	PCB, 4-Layers, Ver. 1.0.0	93.0mm X 66.6mm X 1.0T, Gold		1	KJ Electron	

Bill Of Materials FOR NTG MODEM - POWER SUPPLY

Item	Part No.	Value	Description	Qty	Reference	Manufacturer	Supplier
1	RC1005J3R0CS	3	RES0402, 3, 5%	2	R809 R811	SAMSUNG	
2	RC1005J100CS	10	RES0402, 10, 5%	1	R808	SAMSUNG	
3	RC1005J152CS	1.5K	RES0402, 1.5K, 5%	1	R802	SAMSUNG	
4	RC1005J182CS	1.8K	RES0402, 1.8K, 5%	1	R806	SAMSUNG	
5	RC1005F5621CS	5.62K, 1%	RES0402, 5.62K, 1%	1	R804	SAMSUNG	
6	RC1005F513CS	51K, 1%	RES0402, 51K, 1%	1	R801	SAMSUNG	
7	RC1005F6492CS	64.9K, 1%	RES0402, 64.9K, 1%	1	R805	SAMSUNG	
8	RC1005J823CS	82K	RES0402, 82K, 5%	1	R807	SAMSUNG	
9	RC1005J104CS	100K	RES0402, 100K, 5%	1	R803	SAMSUNG	
10	GRM1555C1H1R8C	1.8pF	CAP0402	1	C808	MURATA	
11	GRM155R71H471J	470pF	CAP0402	1	C807	MURATA	
12	GRM188R71H152J	0.0015uF	CAP0402	1	C809	MURATA	
13	GRM155R71H222K	0.0022uF	CAP0402	1	C812	MURATA	
14	GRM155R71E103K	0.01uF	CAP0402	1	C803	MURATA	
15	GRM155R71E333K	0.033uF	CAP0402	1	C804	MURATA	
16	GRM155R60J105K	1uF / X5R / 6.3V	CAP0402	1	C810	MURATA	
17	GRM188R71C224K	0.22uF / X7R / 16V	CAP0603	1	C805	MURATA	
18	GRM188R61E105K	1uF / X5R / 25V	CAP0603	2	C801 C811	MURATA	
19	GRM32ER61E226K	22uF / X5R / 25V	CAP1210	2	C802A C802B	MURATA	
20	LMK325BJ107MM	100uF / X5R / 10V	CAP1210	1	C807A	TAIYO YUDEN	
21	10RS150MD7	150uF/10V	Polymer Solid Electrolytic capacitor	1	C807C	EneSol	
22	SP75-68K	6.8uH	Power Inductor	1	L801	FINE	
23	KDS160E	KDS160E	ULTRA HIGH SPEED SWITCHING DIODE	1	D801	KEC	
24	MAX8599ETE+	MAX8599	Low Dropout, Step-Down Controller	1	C801	MAXIM	
25	FD665BN	FDC655BN	N-Channel 30-V (D-S) MOSFET	2	Q801-802	FAIRCHILD	

Bill Of Materials FOR SD250NTG - RF

Item	Part No.	Value	Description	Qty	Reference	Manufacturer	Supplier
1	RC1005J000CS	0	RES0402	7	C62 C134 R11 R20 R27 R97 R105	SAMSUNG	
2	RC1005J100CS	10	RES0402	1	R53	SAMSUNG	
3	RC1005J180CS	18	RES0402	3	R13 R33 R(C62)	SAMSUNG	
4	RC1005J330CS	33	RES0402	1	R98	SAMSUNG	
5	RC1005J390CS	39	RES0402	1	R62	SAMSUNG	
6	RC1005J470CS	47	RES0402	1	R64	SAMSUNG	
7	RC1005J510CS	51	RES0402	3	R5 R68 R85	SAMSUNG	
8	RC1005J101CS	100	RES0402	8	R1-2 R12 R14 R38 R49 R70 R84	SAMSUNG	
9	RC1005J121CS	120	RES0402	1	R39	SAMSUNG	
10	RC1005J221CS	220	RES0402	2	R31 R56	SAMSUNG	
11	RC1005J301CS	300	RES0402	4	R32 R34 R66-67	SAMSUNG	
12	RC1005J471CS	470	RES0402	1	R88	SAMSUNG	
13	RC1005J561CS	560	RES0402	1	R4	SAMSUNG	
14	RC1005J102CS	1K	RES0402	5	R17 R47 R69 R87 R126	SAMSUNG	
15	RC1005J122CS	1.2K	RES0402	1	R28	SAMSUNG	
16	RC1005J152CS	1.5K	RES0402	1	R48	SAMSUNG	
17	RC1005J182CS	1.8K	RES0402	1	R73	SAMSUNG	
18	RC1005J222CS	2.2K	RES0402	2	R6 R72	SAMSUNG	
19	RC1005J332CS	3.3K	RES0402	2	R9 R50	SAMSUNG	
20	RC1005J472CS	4.7K	RES0402	3	R30 R90 R95	SAMSUNG	
21	RC1005J562CS	5.6K	RES0402	2	R29 R96	SAMSUNG	
22	RC1005J682CS	6.8K	RES0402	2	R10 R36	SAMSUNG	
23	RC1005J912CS	9.1K	RES0402	1	R127	SAMSUNG	
24	RC1005J103CS	10K	RES0402	9	R8 R16 R26 R46 R82 R107 R109-111	SAMSUNG	
25	RC1005J123CS	12K	RES0402	1	R35	SAMSUNG	
26	RC1005J203CS	20K	RES0402	3	R102-103 R108	SAMSUNG	
27	RC1005J223CS	22K	RES0402	1	R100	SAMSUNG	
28	RC1005J473CS	47K	RES0402	2	R15 R91	SAMSUNG	
29	RC1005J513CS	51K	RES0402	1	R94	SAMSUNG	
30	RC1005J104CS	100K	RES0402	1	R93	SAMSUNG	
31	RC1005J184CS	180K	RES0402	1	R92	SAMSUNG	
32	RC1005J224CS	220K	RES0402	1	R7	SAMSUNG	
33	RC1005J474CS	470K	RES0402	2	R71 R86	SAMSUNG	
34	RC1005J105CS	1M	RES0402	2	R51 R106	SAMSUNG	
35	RC1005J475CS	4.7M	RES0402	1	R57	SAMSUNG	
36	RC1608J000CS	0	RES0603	2	LK1 LK3	SAMSUNG	
37	RC1608F683CS	68K	RES0603, 68K, 1%	2	R58 R60	SAMSUNG	
38	RC1608F104CS	100K	RES0603, 100K, 1%	2	R59 R61	SAMSUNG	
39	RC2012J000CS	0	RES0805	1	R42	SAMSUNG	
40	RC2012J2R2CS	2.2	RES0805	3	R43-45	SAMSUNG	
41	RC2012J474CS	470K	RES0805	3	R40-41 R65	SAMSUNG	
42	RL1218JK-070R1L	0.1 / 1Watt	RES1218	1	R63	PHYCOMP/YAGEO	
43	GRM1555C1H2R4C	2.4pF	CAP0402	1	C24	MURATA	
44	GRM1555C1H3R0C	3pF	CAP0402	1	C21	MURATA	
45	GRM1555C1H3R9C	3.9pF	CAP0402	1	C33	MURATA	
46	GRM1555C1H5R0C	5pF	CAP0402	2	C25 C100	MURATA	
47	GRM1555C1H6R0D	6pF	CAP0402	1	C8	MURATA	
48	GRM1555C1H6R8D	6.8pF	CAP0402	1	C28	MURATA	
49	GRM1555C1H8R0D	8pF	CAP0402	1	C66	MURATA	
50	GRM1555C1H100D	10pF	CAP0402	2	C29 C144	MURATA	
51	GRM1555C1H110J	11pF	CAP0402	1	C31	MURATA	
52	GRM1555C1H150J	15pF	CAP0402	2	C65 C143	MURATA	
53	GRM1555C1H200J	20pF	CAP0402	1	C30	MURATA	
54	GRM1555C1H270J	27pF	CAP0402	1	C32	MURATA	
55	GRM1555C1H300J	30pF	CAP0402	1	C70	MURATA	
56	GRM1555C1H470J	47pF	CAP0402	2	C73 C141	MURATA	
57	GRM1555C1H820J	82pF	CAP0402	1	C64	MURATA	
58	GRM1555C1H221J	220pF	CAP0402	6	C5 C9 C18 C23 C98 C101	MURATA	
59	GRM155R71H471J	470pF	CAP0402	22	C19 C20 C26-27 C42-44 C48 C50 C53 C55-58 C60 C89-90 C99 C102 C112 C135 C137	MURATA	
60	GRM155R71H102K	0.001uF	CAP0402	9	C71 C75 C78 C81 C108-109 C114 C136 C138	MURATA	
61	GRM155R71H472K	0.0047uF	CAP0402	2	C93-94	MURATA	
62	GRM155R71E103K	0.01uF	CAP0402	9	C45 C69 C80 C84 C92 C103 C126 C142 C146	MURATA	

63	GRM155R71C104K	0.1uF / X7R / 16V	CAP0402	15	C7 C10-11 C46 C72 C74 C85 C87 C95 C97 C110-111 C113 C116 C118	MURATA
64	GRM155R61A224K	0.22uF / X5R / 10V	CAP0402	1	C120	MURATA
65	GRM155R6J105K	1uF / X5R / 6.3V	CAP0402	5	C13 C59 C68 C76 C127	MURATA
66	GRM188R71C474K	0.47uF / X7R / 16V	CAP0603	2	C51 C54	MURATA
67	GRM2165C1HR75C	0.75pF	CAP0805	1	C41	MURATA
68	GRM2165C1H1R0C	1pF	CAP0805	1	C35	MURATA
69	GRM2165C1H2R4C	2.4pF	CAP0805	1	C36	MURATA
70	GRM2165C1H5R6C	5.6pF	CAP0805	1	C39	MURATA
71	GRM2165C1H9R0D	9pF	CAP0805	1	C37	MURATA
72	GRM2165C1H100J	10pF	CAP0805	1	C61	MURATA
73	GRM2165C1H110J	11pF	CAP0805	1	C38	MURATA
74	GRM2165C1H471J	470pF	CAP0805	2	C34 C40	MURATA
75	GRM188R6J106ME47D	10uF / X5R / 6.3V	CAP0805	8	C6 C22 C82-83 C88 C91 C115 C119	MURATA
76	ECHU1H103JX5	0.01uF	METAL-POLY CAP. 0.01uF	1	C3	PANASONIC
77	ECHU1C333JX5	0.033uF	METAL-POLY CAP. 0.033uF	1	C2	PANASONIC
78	ECPU1C334MA5	0.33uF	METAL-POLY CAP. 0.33uF	1	C1	PANASONIC
79	TCSVS1D225MAAR	2.2uF	CAP-Tantal-A, 2.2uF/20V	1	C12	SAMSUNG
80	TCSVS1A475MAAR	4.7uF	CAP-Tantal-A, 4.7uF/10V	1	C52	SAMSUNG
81	TCSVS1A106MAAR	10uF	CAP-Tantal-A, 10uF/10V	2	C47 C130	SAMSUNG
82	LQW1608A18NG00	18nH	IND0603, 18NH	5	L2-5 L14	MURATA
83	LQW1608A15G00	150nH	IND0603, 150NH	1	L11	MURATA
84	LQW18ANR47J00	470nH	IND0603, 470NH	1	L18	MURATA
85	0805CS-821XGLB	820nH, 2%	IND0805, 820NH	1	L12	COIL CRAFT
86	SDWL2012CR82J	820nH	IND0805, 820NH	2	L6 L20	Chequers Electronic
87	SDWL2012FW100K	10uH	IND0805, 10UH	2	L1 L16	Chequers Electronic
88	0.65X2.0X3TL	3T	Spring Coil, 0.65X2.0X3TL, SMD	3	L7-9	FINE
89	0.35X1.0X7TR	7T	Spring Coil, 0.35X1.0X7TR, SMD	1	L10	FINE
90	CRBT-3030B-222B	CRBT-3030B-222B	RF BALUN TRANSFORMER	2	T1-2	FINE
91	HSM52817	HSM52817	RF SCHOTTKY RING DIODE	1	D6	AVAGO
92	HVU131	HVU131	Pin Diode for Antenna Switching	1	D5	RENESAS
93	JDP2S12CR	JDP2S12CR	Silicon Epitaxial PIN Type Diode	1	D3	TOSHIBA
94	KDS160E	KDS160E	ULTRA HIGH SPEED SWITCHING DIODE	1	D7	KEC
95	2S2J43	2S2J43	P-CHANNEL MOS FET FOR SWITCHING	2	Q20 Q26	NEC
96	BFO67W	BFO67W	NPN UHF WIDEBAND TR	1	Q5	NXP
97	BFR92AW	BFR92AW	NPN 5GHZ WIDEBAND TR	4	Q4 Q9 Q16 Q19	NXP
98	BFT92W	BFT92W	PNP 4GHZ WIDEBAND TR	1	Q6	NXP
99	KRA110S	KRA110S	PNP TR WITH BIAS RESISTOR	2	Q1-2	KEC
100	KRA304E	KRA304E	PNP TR WITH BIAS RESISTOR	2	Q7 Q22	KEC
101	KRC404E	KRC404E	NPN TR WITH BIAS RESISTOR	3	Q14 Q17-18	KEC
102	KTA1663	KTA1663	HIGH CURRENT PNP TR	1	Q11	KEC
103	KTC3875S-GR	KTC3875S-GR	GENERAL PURPOSE NPN TR	2	Q12 Q15	KEC
104	KTC4075E-GR	KTC4075E-GR	GENERAL PURPOSE NPN TR	2	Q3 Q8	KEC
105	PBR951	PBR951	UHF WIDEBAND TR	1	Q10	NXP
106	BA4116FV	BA4116FV	IF IC	1	IC6	ROHM
107	LMV358AM8X	LMV358AM8X	Dual Operational Amplifier	2	IC4-5	Fairchild
108	MB15E03SL	MB15E03SL	PLL IC	1	IC2	FUJITSU
109	MC74HC4066ADT	MC74HC4066ADT	Analog Switch IC	1	IC8	ON SEMICONDUCTOR
110	XC6201P302MR	XC6201P302MR	Voltage regulator - 3.0V	1	IC11	TOREX
111	XC6201P332MR	XC6201P332MR	Voltage regulator - 3.3V	1	IC7	TOREX
112	XC6201P502MR	XC6201P502MR	Voltage regulator - 5.0V	1	IC1	TOREX
113	CFWL450K0EFA-B0	450E	CERAMIC FILTER	1	CF1	MURATA
114	CFWL450K0GFA-B0	450G	CERAMIC FILTER	1	CF2	MURATA
115	CDBK450K0CAY24-B0	CDBK450K0CAY24-B0	CERAMIC DISCRIMINATOR	1	Y1	MURATA
116	45M15BU5	45MHz, +/-7.5KHz	X-TAL FILTER	2	XF1-2	Frontier Electronics
117	ENA3727A	14.85MHz	VCTCXO	1	VCTCX01	NDK
118	PH-2209-2D10-95	CON18	18PIN DUAL LINE HEADER	1	CON1	Lastar Technology Co. Ltd
119		PCB, 4-Layers, Ver.1.0.6	56.6mm X 89.6mm X 1.6T, Gold	1		KJ ELECTRON

Bill Of Materials FOR SD250NTG - VCO

Item	Part No.	Value	Description	Qty	Reference	Manufacturer	Supplier
1	RC1005J000CS	0	RES0402	2	R201 R302	SAMSUNG	
2	RC1005J101CS	100	RES0402	1	R202	SAMSUNG	
3	RC1005J181CS	180	RES0402	1	R309	SAMSUNG	
4	RC1005J271CS	270	RES0402	1	R209	SAMSUNG	
5	RC1005J222CS	2.2K	RES0402	4	R206-207 R306-307	SAMSUNG	
6	RC1005J472CS	4.7K	RES0402	2	R208 R308	SAMSUNG	
7	RC1005J104CS	100K	RES0402	1	R203	SAMSUNG	
8	GRM1555C1HR50C	0.5pF	CAP0402	2	C204 C206	MURATA	
9	GRM1555C1H1R5C	1.5pF	CAP0402	1	C205	MURATA	
10	GRM1555C1H2R2C	2.2pF	CAP0402	1	C209	MURATA	
11	GRM1555C1H2R7C	2.7pF	CAP0402	3	C213 C309 C313	MURATA	
12	GRM1555C1H3R0C	3pF	CAP0402	1	C207	MURATA	
13	GRM1555C1H3R3C	3.3pF	CAP0402	1	C211	MURATA	
14	GRM1555C1H4R0C	4pF	CAP0402	3	C218 C311 C318	MURATA	
15	GRM1555C1H5R6D	5.6pF	CAP0402	1	C307	MURATA	
16	GRM1555C1H6R0D	6pF	CAP0402	1	C215	MURATA	
17	GRM1555C1H9R0D	9pF	CAP0402	2	C203 C315	MURATA	
18	GRM1555C1H110J	11pF	CAP0402	1	C312	MURATA	
19	GRM1555C1H120J	12pF	CAP0402	2	C212 C303	MURATA	
20	GRM1555C1H221J	220pF	CAP0402	5	C216-217 C301 C316-317	MURATA	
21	GRM155R71H471J	470pF	CAP0402	1	C201	MURATA	
22	GRM155R71H102K	0.001uF	CAP0402	1	C214	MURATA	
23	ITZV22060A10	6pF	CAP_TRIM	2	C208 C308	MURATA	
24	LQW1608A22NG00	22nH	IND0603	1	L205	MURATA	
25	LQW1608A33NG00	33nH	IND0603	1	L1305	MURATA	
26	LQW1608AR10G00	100nH	IND0603	2	L201 L301	MURATA	
27	LQW18ANR47J00	470nH	IND0603	1	L202	MURATA	
28	0805CS-821XGLB	820nH, 2%	IND0805	2	L204 L304	COIL CRAFT	
29	0.45X0.9X4TR	9.8nH, 2%	COIL SPRING, SMD	2	L203 L303	FINE	
30	1SV229	1SV229	VARICAP DIODE	3	D201-202 D301	TOSHIBA	
31	2SC4226-R25	2SC4226-R25	LOW NOISE AMPLIFIER	1	Q202	NEC	
32	2SC5086	2SC5086	LOW NOISE AMPLIFIER	3	Q201 Q301-302	TOSHIBA	

Bill Of Materials FOR SD250NTG - FRONT-END

Item	Part No.	Value	Description	Qty	Reference	Manufacturer	Supplier
1	RC1005J000CS	0	CAP0402	1	C607	SAMSUNG	
2	RC1005J470CS	47	RES0402	1	R602	SAMSUNG	
3	RC1005J473CS	47K	RES0402	1	R601	SAMSUNG	
4	GRM1555C1H3R3C	3.3pF	CAP0402	1	C622	MURATA	
5	GRM1555C1H3R6C	3.6pF	CAP0402	1	C604B	MURATA	
6	GRM1555C1H4R7C	4.7pF	CAP0402	1	C602	MURATA	
7	GRM1555C1H5R0C	5pF	CAP0402	1	C623	MURATA	
8	GRM1555C1H5R6D	5.6pF	CAP0402	2	C601 C621	MURATA	
9	GRM1555C1H7R0D	7pF	CAP0402	3	C604 C614-615	MURATA	
10	GRM1555C1H9R0D	9pF	CAP0402	1	C624	MURATA	
11	GRM1555C1H100D	10pF	CAP0402	1	C613	MURATA	
12	GRM1555C1H110J	11pF	CAP0402	1	C618	MURATA	
13	GRM1555C1H120J	12pF	CAP0402	1	C603	MURATA	
14	GRM1555C1H130J	13pF	CAP0402	4	C616-617 C619-620	MURATA	
15	GRM1555C1H140J	14pF	CAP0402	1	C608	MURATA	
16	GRM1555C1H200J	20pF	CAP0402	1	C604A	MURATA	
17	GRM1555C1H330J	33pF	CAP0402	1	C605	MURATA	
18	GRM1555C1H470J	47pF	CAP0402	1	C609	MURATA	
19	GRM155R71H471J	470pF	CAP0402	1	C611	MURATA	
20	LQW18AN8N2D00	8.2nH	IND0603	1	L603	MURATA	
21	0.30X0.90X4TR	9.8nH, 2%	COIL SPRING, SMD	5	L601-602 L605-606 L609	FINE	
22	0.28X0.90X5TL	13.2nH, 2%	COIL SPRING, SMD	3	L604 L607-608	FINE	
23	KDS226	KDS226	SWITCHING DIODE	1	D601	KEC	
24	AT-41532	AT-41532	LOW NOISE NPN TR	1	Q601	AVAGO	

Bill Of Materials FOR SD250NTG - PA

Item	Part No.	Value	Description	Qty	Reference	Manufacturer	Supplier
1	RC1005J6R8CS	6.8	RES0402	1	R703	SAMSUNG	
2	RC1005J101CS	100	RES0402	1	R706	SAMSUNG	
3	RC1005J221CS	220	RES0402	1	R707	SAMSUNG	
4	RC1005J331CS	330	RES0402	1	R709	SAMSUNG	
5	RC1005J222CS	2.2K	RES0402	1	R704	SAMSUNG	
6	RC1005J272CS	2.7K	RES0402	1	R701	SAMSUNG	
7	RC1005J682CS	6.8K	RES0402	1	R702	SAMSUNG	
8	RC1608J000CS	0R	RES0603	1	LK701	SAMSUNG	
9	RC1608J103CS	10K	RES0603	1	R705	SAMSUNG	
10	GRM1555C1H3R0C	3pF	CAP0402	1	C704	MURATA	
11	GRM1555C1H100D	10pF	CAP0402	1	C702	MURATA	
12	GRM1555C1H220J	22pF	CAP0402	1	C701	MURATA	
13	GRM1555C1H221J	220pF	CAP0402	3	C700 C703 C706	MURATA	
14	GRM155R71E103K	0.01uF	CAP0402	1	C709	MURATA	
15	GRM2165C1H4R7C	4.7pF	CAP0805	1	C721	MURATA	
16	GRM2165C1H6R0C	6pF	CAP0805EXT	2	C714 C722	MURATA	
17	GRM2165C1H8R0D	8pF	CAP0805	1	C705	MURATA	
18	GRM2165C1H160J	16pF	CAP0805EXT	1	C713	MURATA	
19	GRM2165C1H180J	18pF	CAP0805	1	C716	MURATA	
20	GRM2165C1H300J	30pF	CAP0805EXT	1	C708	MURATA	
21	GRM2165C1H221J	220pF	CAP0805	1	C712	MURATA	
22	GRM2165C1H102J	0.001uF	CAP0805	1	C711	MURATA	
23	LQW1608A3N9C00	3.9nH	IND0804	1	L704	MURATA	
24	0603LS-122XJLC	1.2uH	IND0805	1	L702	COILCRAFT	
25	0.28X0.90X5TL	13.2nH, 2%	COIL SPRING, SMD	2	L701 L703	FINE	
26	0.45X1.0X4TR	4T	COIL SPRING	1	L705	FINE	
27	KDS181	KDS181	SWITCHING DIODE	1	D701	KEC	
28	2SK3476	2SK3476	N-CH POWER MOSFET	1	Q703	TOSHIBA	
29	BLT50	BLT50	UHF power transistor	1	Q702A	NXP	
30	PBR951	PBR951	UHF WIDEBAND TR	1	Q701	NXP	

Bill Of Materials FOR SD250NTG - CHARGE PUMP

Item	Part No.	Value	Description	Qty	Reference	Manufacturer	Supplier
1	RC1608J000CS	0	RES0603	1	D903	SAMSUNG	
2	RC1005J100CS	10	RES0402	1	R908	SAMSUNG	
3	RC1005J222CS	2.2K	RES0402	2	R905 R907	SAMSUNG	
4	RC1005J472CS	4.7K	RES0402	1	R906	SAMSUNG	
5	RC1005J752CS	7.5K	RES0402	2	R902 R904	SAMSUNG	
6	RC1005J273CS	27K	RES0402	2	R901 R903	SAMSUNG	
7	GRM1555C1H221J	220pF	CAP0402	2	C901-902	MURATA	
8	GRM155R71E223K	0.022uF	CAP0402	5	C904-905 C908-910	MURATA	
9	GRM155R71C104K	0.1uF / X7R / 16V	CAP0402	1	C911	MURATA	
10	KDS122	KDS122	ULTRA HIGH SPEED SWITCHING DIODE	2	D901-902	KEC	
11	KTA2014E-GR	KTA2014E-GR	GENERAL PURPOSE PNP TR	1	Q905	KEC	
12	KTC4075E-GR	KTC4075E-GR	GENERAL PURPOSE NPN TR	4	Q901-904	KEC	

Bill Of Materials FOR SD250NTG - ASSEMBLY

Item	Part No.	Value	Description	Qty	Reference	Manufacturer	Supplier
1	BNC-RB-CRIMP-1781U		BNC ANT. CONNECTOR	1	ANT1	SAMWOO	
2			CABINET TOP, ALDC	1			
3			CABINET BOTTOM, ALDC	1			
4			LIGHT GUIDE - LED LENS	1			
5			VCO SHIELD CAN 0.2T	1			
6			PA SHIELD CAN 0.2T	1			
7			PLL SHIELD CAN 0.2T	1			
8			HEAT SINK BSP 1.0T NI-PL	1			
9			RF SHIELD CAN 0.3T	1			
10			POWER SUPPLY SHIELD CAN 0.3T	1			
11			POST PILLER BSBM NI-PL (M3)	4			
12			D-SUB CONNECTOR POST BSBM	2			
13			(+)MACHINE SCREW M2X5	2			
14			(+)MACHINE SCREW M3X8	4			
15			OVERLAY LED LEXAN T0.25	1			
16			GASKET	1			
17			GASKET	1			