

Grand2_BOM

No			Series	Part Name/Description	Location	quantity
	1	2				
1	*		22000353	Grand Plus MB PCBA V1.1 without SW		1
2		*	11000187	Chip CAP, 1pF $\pm 0.25\text{pF}$ 25V COG 0201	C868, C869, C829	3
3		*	11000242	Chip CAP 1.2pF $\pm 0.25\text{pF}$ 25V COG 0201	C862, C863, C1001	3
4		*	11000230	Chip CAP, 1.5pF $\pm 0.25\text{pF}$ 25V COG 0201	C834	1
5		*	11000243	Chip CAP 1.8pF $\pm 0.25\text{pF}$ 25V COG 0201	C837, C850	2
6		*	11000231	Chip CAP, 2.2pF $\pm 0.25\text{pF}$ 25V COG 0201	C1028, C1029, C931, C932	4
7		*	11000244	Chip CAP 2.7pF $\pm 0.25\text{pF}$ 25V COG 0201	C1035, C1036, C1032, C1033, L804	5
8		*	11000210	Chip CAP, 3.3pF $\pm 0.25\text{pF}$ 25V COG 0201	C871, C872	2
9		*	11000247	Chip CAP 4.7pF $\pm 0.25\text{pF}$ 25V COG 0201	C1037, C1038, C1005, C1006, C1012, C1013, C831	7
10		*	11000245	Chip CAP 5.6pF $\pm 0.5\text{pF}$ 50V COG 0201	C1002, C1003	2
11		*	11000246	Chip CAP 6.8pF $\pm 0.5\text{pF}$ 50V COG 0201	L807	1
12		*	11000101	Chip Multilayer Ceramic Capacitor, 8.2pF $\pm 0.5\text{pF}$ 50V COG 0201	C864, C925, C926, L802	4
13		*	11000103	Chip Multilayer Ceramic Capacitor, 10pF $\pm 5\%$, 50V COG 0201	C911, C1020, L809	3
14		*	11000248	Chip CAP 12pF $\pm 5\%$ 50V COG 0201	C1030, C849	2
15		*	11000253	Capacitor 47uF $\pm 20\%$ 6.3V 0805 H=0.85	C548, C551	2
16		*	11000216	Chip CAP, 47nF $\pm 10\%$ 6.3V X5R 0201	C542	1
17		*	11000153	Ceramic Capacitor, 10uF $\pm 20\%$ 6.3V X5R 0603	C441	1
18		*	11000172	Chip CAP, , 18pF $\pm 5\%$ 50V COG 0201	C918, C919, C1021, C1022, C1023, C1314, C933, C934, C1004, C929, C930	11
19		*	11000160	Chip CAP, 22pF $\pm 5\%$ 50V COG 0201	C432, C433, L808	3
20		*	11000227	Chip CAP, 27pF $\pm 5\%$ 50V COG 0201	C928	1
21		*	11000105	Chip CAP, 33pF $\pm 5\%$, 50V COG 0201	C419, C870, C903, C905, C904, C1024, C1438, C1439, C1405, C1407, C1419, C1420, C1424, C1425, C873,	15
22		*	11000212	Chip CAP, 39pF $\pm 5\%$ 25V COG 0201	C916	1
23		*	11000107	Chip Multilayer Ceramic Capacitor, 100pF $\pm 10\%$, 50V COG 0201	C867, C1311, C1303, C1310, C1406, C1418, C838, C840, C842, C1116	10
24		*	11000214	Chip CAP, 220pF $\pm 10\%$ 25V X7R 0201	C1432	1

25		*	11000109	Chip Multilayer Ceramic Capacitor, 1nF $\pm 10\%$, 50V X7R 0201	C861, C912	2
26		*	11000173	Chip CAP, 4.7nF $\pm 10\%$, 16V, X7R, 0201	C1304	1
27		*	11000174	Chip CAP, 10nF $\pm 10\%$ 16V X5R 0201	C908, C1308	2
28		*	11000224	Chip CAP, 15nF $\pm 10\%$ 6.3V X5R 0201	C1433, C1434	2
29		*	11000218	Chip CAP, 470nF $\pm 20\%$ 6.3V X5R 0201	C844, C839, C843	3
30		*	11000240	Chip CAP 33nF $\pm 10\%$ 6.3V X5R 0201	C1502	1
31		*	11000217	Chip CAP, 220nF $\pm 20\%$ 6.3V X5R 0201	C157, C158, C1230	3
32		*	11000055	Ceramic Capacitor, 2.2uF $\pm 20\%$ 6.3V X5R 0402	C126, C127, C417, C408, C409, C410, C411, C412, C406, C407, C427, C428, C429, C440, C501, C520, C522, C524, C527, C532, C533, C710, C1109, C1206, C1207, C1430, C1431, C545, C536, C540	30
33		*	11000111	Ceramic Capacitor, 100nF $\pm 20\%$ 10V X5R 0201	C122, C124, C128, C129, C130, C131, C132, C145, C146, C147, C148, C149, C150, C151, C152, C153, C154, C155, C159, C161, C202, C203, C206, C418, C448, C414, C415, C420, C434, C500, C510, C512, C518, C519, C521, C526, C528, C531, C703, C704, C705, C706, C702, C701, C700, C707, C708, C866, C1105, C1106, C1200, C1202, C1203, C1204, C1205, C1208, C1210, C1211, C1312, C1436, C1416, C1417, C1504, C1505, C200, C201, C1115, C162, C534, C539, C1408, C1409	72
34		*	11000219	Chip CAP, 1uF $\pm 20\%$ 6.3V X5R 0201	C107, C108, C109, C110, C111, C112, C116, C117, C118, C119, C138, C139, C140, C141, C142, C143, C144, C160, C204, C400, C402, C416, C421, C422, C423, C424, C426, C425, C436, C437, C439, C509, C841, C874, C1118, C1119, C1232, C1233, C1313, C1300, C1302, C1305, C1503, C1507	44
35		*	11000018	Ceramic Capacitor, 1uF $\pm 10\%$ 10V X5R 0402	C560, C1201	2
36		*	11000151	Chip Multilayer Ceramic Capacitor, 1uF $\pm 20\%$ 50V X7R 0603	C431, C514, C515	3
37		*	11000232	Chip CAP, 4.7uF $\pm 20\%$ 6.3V X5R 0402	C105, C106, C120, C121, C125, C136, C137, C156, C403, C404, C405, C541, C543, C1117, C1209, C1231, C1309, C1435, C1421, C1506, C716	21
38		*	11000233	Chip CAP, 4.7uF $\pm 20\%$ 10V X5R 0603	C1437, C1501	2
39		*	11000056	Ceramic Capacitor, 4.7uF $\pm 10\%$ 6.3V X5R 0603	C513	1

40	*	11000065	Capacitor, 22uF/6. 3V +/-20%, 0603	C101, C103, C104, C113, C114, C133, C134, C135, C163, C164, C401, C413, C430, C435, C517, C523, C529, C530, C547, C910	20
41	*	10900240	NTC Thermistor 100K +/-1% 0201	NTC801	1
42	*	10900241	NTC Thermistor 100K +/-1% 0402	NTC1100	1
43	*	10900080	Chip Resistor, 0 Ω $\pm$ 5% 1/20W 0201	R523, R534, R801, R903, R906, R1305, R1308, R1311, R1319, R501, R469, R561, R1003, R803, R1105, R1112, R1113, R1416, R1417, R1418, R1203, L1027, L1035, R1501, R1503, R1433	26
44	*	10900000	Chip Resistor, 0 Ω $\pm$ 5% 1/16W 0402	R511, R530, R806, R1300, R1301, R525, R1412, R1413, R549, R1402, R1403, R1405, R1406, R1315, R1314	15
45		10900034	Chip Resistor, 3. 3K0 $\pm$ 5% 1/4W 0402	B1410	1
46	*	#####	Chip Resistor, 0 Ω $\pm$ 5% 1/10W 0603	B1420, B1421, R526, R106	4
47	*	10900233	Chip Resistor 0. 01 Ω $\pm$ 1% 1206	R403	1
48	*	10900216	Chip Resistor, 0. 056 Ω $\pm$ 1% 1/4W 1206	R405	1
49	*	10900232	Chip Resistor 1 Ω $\pm$ 1% 1/20W 0201	R401	1
50	*	10900110	Chip Resistor, 4. 7 Ω $\pm$ 1% 1/16W 0402	R527	1
51	*	10900234	Chip Resistor 12 Ω $\pm$ 1% 1/20W 0201	R902	1
52	*	10900213	Chip Resistor, 33 Ω $\pm$ 1% 1/20W 0201	R336	1
53	*	10900229	Chip Resistor 36 Ω $\pm$ 1% 1/20W 0201	R201	1
54	*	10900218	Chip Resistor, 51 Ω $\pm$ 1% 1/20W 0201	R1320	1
55	*	10900029	Chip Resistor, 51 Ω $\pm$ 5% 1/16W 0402	R537	1
56	*	10900235	Chip Resistor 62 Ω $\pm$ 1% 1/20W 0201	R708	1
57	*	10900236	Chip Resistor 105 Ω $\pm$ 1% 1/20W 0201	R709, R710	2
58	*	10900211	Chip Resistor, 240 Ω $\pm$ 1% 1/20W 0201	R1200, R1201	2
59	*	10900237	Chip Resistor 430 Ω $\pm$ 1% 1/20W 0201	R900, R901	2
60	*	10900209	Chip Resistor, 470 Ω $\pm$ 1% 1/20W 0201	R1419, R1420	2
61	*	10900081	Chip Resistor, 1K Ω $\pm$ 5% 1/20W 0201	R467, R409, R702, R701, R1100, R1101, R1103, R1409, R1411, R1106, R1407, R1408	12
62	*	10900150	Chip Resistor, 1. 5K Ω $\pm$ 1% 1/20W 0201	R302, R1410, R1404, R1424	4
63	*	10900005	Chip Resistor, 1. 5K0 $\pm$ 5% 1/16W 0402	R404	1
64	*	10900151	Chip Resistor, 2K Ω $\pm$ 1% 1/20W 0201	R700	1
65	*	10900085	Chip Resistor, 4. 7K Ω $\pm$ 5% 1/20W 0201	R304, R305, R306, R307, R308, R309, R1114, R1500	8
66	*	10900200	Chip Resistor, 5. 1K Ω $\pm$ 1% 1/20W 0201	R303	1
67	*	10900202	Chip Resistor, 8. 2K Ω $\pm$ 1% 1/20W 0201	R200, R202	2
68	*	10900152	Chip Resistor, 10K Ω $\pm$ 1% 1/20W 0201	R562, R908, R1430, R1431, R1432, R1506	6
69	*	10900203	Chip Resistor, 16. 9K Ω $\pm$ 1% 1/20W 0201	R402	1
70	*	10900087	Chip Resistor, 24K Ω $\pm$ 5% 1/20W 0201	R905	1
71	*	10900089	Chip Resistor, 39K Ω $\pm$ 1% 1/20W 0201	R407	1
72	*	10900208	Chip Resistor, 47K Ω $\pm$ 5% 1/20W 0201	R207, R524, R541, R531, R1414, R545, R1137	7
73	*	10900023	Chip Resistor, 150K 5% 1/16W, 0402	R542	1
74	*	10900238	Chip Resistor 200K $\pm$ 1% 1/20W 0201	R400	1
75	*	10900092	Chip Resistor, 330K Ω $\pm$ 1% 1/20W 0201	R406	1
76	*	10900231	Chip Resistor 390K $\pm$ 1% 1/20W 0201	R804, R1110	2
77	*	10900207	Chip Resistor, 470K Ω $\pm$ 5% 1/20W 0201	R1415, R1505	2

78		*	11200013	Chip Ferrite Beads, 600ohm@100M, 0.8A, 0.25ohm, 0603	L1405	1
79		*	11200002	Chip Ferrite Beads, 1800ohm@100M, 1000mA, DCR=1.4ohm max , 0402	B1300, R1328, B1406, B1407, B1408, B1409	6
80		*	11100211	Chip Inductor, 1.0nH $\pm$ 0.3nH 0201	L1025, L806, C920	3
81		*	11100190	Chip Inductor, 1.5nH $\pm$ 0.3nH 0201	C1016	1
82		*	11100217	Chip Inductor, 1.8nH $\pm$ 0.3nH 0201	C923	1
83		*	11100191	Chip Inductor, 2.0nH $\pm$ 0.3nH 0201	L929, L1002, L926	3
84		*	11100192	Chip Inductor, 2.2nH $\pm$ 0.3nH 0201	L1013, C1000	2
85		*	11100218	Chip Inductor, 2.4nH $\pm$ 0.3nH 0201	L927	1
86		*	11100193	Chip Inductor, 2.7nH $\pm$ 0.3nH 0201	L921, L906, L922	3
87		*	11100214	Chip Inductor, 3.3nH $\pm$ 0.3nH 0201	R805, L1028, C913	3
88		*	11100208	Chip Inductor, 3.6nH $\pm$ 0.3nH 0201	L923, L930, L805	3
89		*	11100200	Chip Inductor, 4.3nH $\pm$ 0.3nH 0201	L902	1
90		*	11100201	Chip Inductor, 4.7nH $\pm$ 0.3nH 0201	L812, C851, L910	3
91		*	11100194	Chip Inductor, 5.6nH $\pm$ 0.3nH 0201	L1303, L1033, L1034, L1026, L803	5
92		*	11100215	Chip Inductor, 6.2nH $\pm$ 0.3nH 0201	L919, L920, L913, L914, C835	5
93		*	11100251	Chip Inductor 6.8nH $\pm$ 0.3nH 0201	L911, C832	2
94		*	11100209	Chip Inductor, 7.5nH $\pm$ 0.3nH 0201	L1005	1
95		*	11100204	Chip Inductor, 8.2nH $\pm$ 0.3nH 0201	L916	1
96		*	11100250	Chip Inductor 9.1nH $\pm$ 0.3nH 0201	L813	1
97		*	11100195	Chip Inductor, 10nH $\pm$ 5% 0201	L1039, C846, C847	3
98		*	11100202	Chip Inductor, 12nH $\pm$ 5% 0201	L1037, L1031	2
99		*	11100262	Chip Inductor 18nH $\pm$ 5% 0201	C827, C924	2
100		*	11100216	Chip Inductor, 39nH $\pm$ 5% 0201	L814	1
101		*	11100205	Chip Inductor, 47nH $\pm$ 5% 0201	L1024	1
102		*	11100197	Chip Inductor, 82nH $\pm$ 5% 0201	L1316	1
103		*	11100198	Chip Inductor, 100nH $\pm$ 5% 0201	L1404	1
104		*	11100274	Power inductor 0.47uH $\pm$ 20% 4.5A DCR<35mohm	L404, L403, L405	3
105		*	11100275	Power inductor 2.2uH $\pm$ 20% 1.9A DCR<170mohm	L402	1
106		*	11100261	power inductor 0.33uH $\pm$ 20% 6.1A DCR<35mohm	L406	1
107		*	11100241	power inductor, 1uH $\pm$ 20%, 2.5A, 0.043 ohm	L504	1
			11100231	power inductor, 1.0uH $\pm$ 30%, max I=1.87A		

108	*	11100238	power inductor, 1uH±30%, 2.7A, 0.043 ohm	L1500	1
		11100230	power inductor, 1.0uH±30%, 2.68A, 0.102 ohm		
109	*	11100244	power inductor 10uH±20% 0.84A DCR=0.35ohm	L503	1
		11100266	power inductor 10uH±20% 1.06A DCR=0.42ohm 303		
110	*	10900101	Multilayer Chip Varistor, 10pF Vdc=18V 0402	T320, T1100, T1101, T1102, T1117, T1400, T1401	7
		10900228	CHIP Cp=10pF TVS Vdc=18V Vclamp<72V 0402		
111	*	11300046	TVS VBR=6.7V C=15pF 80W +/-15K	T401, T500, T501, T502, T503, T1406, T1407, T1408, T1409, T1421, T504, T505, T506, T512	14
		11300051	TVS 150Watts@8x20µs +/-16KV SOD882		
112	*	11300059	TVS_VT=4.7V_VH=4.6V_300W_±30KV_0402	T400, T402	2
113	*	11300057	ESD PROTECTOR 2000W +/-30KV 4.5V SOD323	D401, D402	2
114	*	11300062	TVS , ESD ±30KV, I=40A(5/50ns) 4.5V DFN2×2	T812	1
115	*	11300030	Schottky barrier	D501	1
		11300058	Schottky barrier diode Vrm45V 25A Vf0.5V		
116	*	10700089	MIPI common mode filter, 90ohm	EMI500, EMI501, EMI502, EMI503, EMI504	5
		10700088	MIPI common mode filter, 35ohm		
117	*	10400072	IC Audio PA K Class AW8736FCR FC16	U1406	1
118	*	10000129	BB Main chip W+G+L/F MT6735V/W BGA641	U101	1
119	*	10200088	PMU MT6328V/A 6.6*6.6mm VFBGA206	U401	1
120	*	10500137	TR MT6169V 6.4*5.6mm	U701	1
121	*	10400075	4in1 IC with BT FM WIFI and QFN MT6625L	U1302	1
122	*	10300189	MCP 16GB eMMC+3GB LPDDR3, VFBGA 221balls	U1200	1
123	*	10500143	RF PA GSM MODULE SP10T 5.5*5.3mm	U900	1
124	*	10500142	RF PA G+W+T+F MODULE L+M+H band 6.8*4.0mm	U800	1
125	*	10600010	ANT SWICTH, 0.1-3.0G, SP8T 2*2mm	U1009	1
		10600012	ANT SWICTH 0.1-3.0G SP8T 2*2mm		

126	*	10700125	Unbalanced SAW Single filter for B40 TRX 5pin 1411	U801	1
127	*	10700123	LOW-PASS FILTER 1608, 6PIN	U802	1
128	*	10700128	Balanced SAW Duplexer for B8 PRX 8pin 1814	U905	1
129	*	10700115	Balanced SAW Dual Filter for B40/B41PRX 0.65*0.5	U906	1
130	*	10700108	Balanced SAW Duplexer for B5 PRX 8pin 1814	U907	1
131	*	10700106	Balanced SAW Duplexer for B7 PRX 8pin 1814	U909	1
132	*	10700122	Balanced SAW Duplexer for B3 PRX 8pin 1814	U910	1
133	*	10700119	Balanced SAW Duplexer for B2 PRX 8pin 1814	U911	1
134	*	10700107	SAW Duplexer for B1 PRX 8pin 1814	U908	1
135	*	10700110	SAW Filter for UMTS B3 DRX 5pin 1109	U1000	1
136	*	10700144	SAW Filter for UMTS B40 DRX 5pin 1109	U1006	1
137	*	10700151	Unbalanced SAW Filter for B7 DRX 5pin 1109	U1001	1
138	*	10700112	Balanced SAW Dual Filter for B1/B8 DRX 1511	U1010	1
139	*	11700101	HALL IC SOT553 1.7*1.7*0.6mm	U1106	1
140	*	10700113	Balanced SAW Dual Filter for B2/B5 DRX 1511	U1011	1
141	*	10800001	VCTX0, 26MHZ, 2.8V, +/-0.5ppm	U1306	1
		10800071	TCX0 26MHz VCC=1.8/2.8V ±0.5ppm Cp=10pf 2520		
142	*	10800074	26mhz crystal 2.5x2.0mm seam type-/+2ppm	X700	1
		10800075	26mhz crystal 2.5x2.0mm seam type-/+2ppm		
143	*	10800076	crystal 32.768KHz 12.5PF +/-20PPM	X400	1
144	*	10700121	1.5/2.4/5G GPS WIFI Duplexer, 2.0*1.25mm	U1304	1
145	*	10700120	BAW Bluetooth/WALN filter, 1411, 5pin	U1303	1
146	*	10700083	GPS SAW, 1109	U1308	1
		10700084	GPS SAW, 1109		
147	*	10700010	GPS low-noise amplifier	U1307	1
		10500124	GPS LNA, DFN-6L AW5005DNR		
148	*	11700072	acceleration sensor, LGA, 2*2*0.9mm	U1100	1
		11700096	G-sensor 1.8-3.6V ±2G 8bit VLGA-12		
149	*	11500160	FLASH LED 0.35A 1A 2.04X1.64X0.75mm	LED500, LED502	2
150	*	11500158	FLASH LED 60MA 3X2X0.8mm	LED501	1
151	*	11500163	Blue 正面发光LED, 1.6*0.8*0.4MM	LED301	1

152		*	11400073	MOSFET N-Channel 20V 0.3A SOT-523	Q500	1
			11400071	N-Channel MOSFET LSI1012XT1G SC-89		
153		*	10200071	Flash LED IC 3X3X0.8mm	U508	1
154		*	10200098	IC Switch Charger BQ24157 WLCSP-20	U1208	1
155		*	10200096	LCD backlight driver IC 38.5V TSOT23-6	U502	1
156		*	11700092	LDO, SOT23-5, 2V8, H=1.3mm EUTECH	U503, U507	2
157		*	11700100	ALS+PS 3IN1 Sensor 3.9x2.4x1.4 STK3311	U1102	1
158		*	12000232	Micro_SIM CARD CONNECTOR 8PIN 1.5mm 2.54mm	J1001, J1002	2
			12000233			
159		*	12000206	TF CARD CONNECTOR 9PIN 1.5mm PITCH1.1mm	J1003	1
			12000200			
160		*	12000100	EARPHONE CONNECTOR 3.5mm 5pin H=1.6mm	J1403	1
161		*	11900080	BATTERY CONNECTOR 3Pin PITCH=3.0mm 1.0mm	CON300	1
			12000212	BATTERY CONNECTOR 3Pin PITCH=3.0mm 1.0mm		
162		*	11900154	10pin/BTB/H0.8/W2.5/pitch0.4/Female	J500, J1106	2
163		*	11900155	24pin/BTB/H0.8/W2.5/pintch0.4/Female	J1501	1
164		*	11900156	30pin/BTB/H0.8/W2.5/pitch0.4/Female	J501, J502, J503	2
165		*	11900118	RF Connector for test H0.9 ECT818000291	CON900, CON1001	2
166		*	11900100	RF Cable Connector third 8522A0000A00	CON901	1
167		*	20500351	spring piece_H0.45-0.65mm	ANT1000, ANT1001, ANT1300, ANT1302, ANT1303, ANT1301,	6
168		*	20700253	Grand Plus BB shielding	B1	1
			20700263	Grand Plus BB shielding		
169		*	20700257	Grand Plus BB shielding	B1	1
			20700264	Grand Plus BB shielding		
170		*	20700254	Grand Plus RF shielding	B2	1
171		*	20700255	Grand Plus RF PA shielding	B3	1
172		*	20700256	Grand Plus 4 in 1 IC shielding	B4	1
173		*	11800506	Grand Plus MB PCB V1.1 8 layer 2step	PCB	1
			11800507	Grand Plus MB PCB V1.1 8 layer 2step		
174		*	21500925	Grand Plus radiating for BB	U101	1
175		*	30700057	Gluewater 6580_30ml Darbond	U101, U401, U1200	1/300
176	*		20000828	Grand Plus SUB Antenna PCBA V1.1		1
177		*	11900100	RF Cable Connector third 8522A0000A00	CON100	1
178		*	20500355	spring piece_H1.7-2.1mm	ANT100, ANT101, ANT102	3
179		*	11000092	Chip CAP, 0.5pF ± 0.25 50V COG 0402	R108	1
180		*	11100062	igh frequency ML, 12nH $\pm 5\%$, 0.24ohm 300mA , Q=8	R104	1
181		*	10900000	Chip Resistor, 0 Ω $\pm 5\%$ 1/16W 0402	R105, R103	2
182		*	11800508	Grand plus SUB PCB V1.1		1