



Part List, Electrical

Applicable for S500, W580

Contents

1	PCB Components.....	2
2	Revision History	4



1 PCB Components

Contains only components that are possible to replace on the main board.
Pos. number refers to the components position number on the board.

Some components are noted as MSL X. These components are moisture-sensitive and are rated at various levels (MSL):

- Level 1:** Unlimited floor life; does not require dry pack or re-baking.
- Level 2:** 1 year floor life; ≤ 30 C; 60%rh; shipped in dry pack; must be re-baked after being opened if floor life is exceeded.
- Level 2A:** 4 week floor life; ≤ 30 C; 60%rh; shipped in dry pack; must be re-baked after being opened if floor life is exceeded.
- Level 3:** 168 hours floor life; ≤ 30 C; 60%rh; shipped in dry pack; must be re-baked after being opened if floor life is exceeded.
- Level 4:** 72 hours floor life; ≤ 30 C; 60%rh; shipped in dry pack; must be re-baked after being opened if floor life is exceeded.
- Level 5:** 48 hours floor life; ≤ 30 C; 60%rh; shipped in dry pack; must be re-baked after being opened if floor life is exceeded.
- Level 5A:** 24 hours floor life; ≤ 30 C; 60%rh; shipped in dry pack; must be re-baked after being opened if floor life is exceeded.
- Level 6:** 6 hours floor life; ≤ 30 C; 60%rh; shipped in dry pack; must be re-baked after being opened if floor life is exceeded.

Component placing will be found in document 1078-2/FEA 209 544/603

NOTE!

RF Calibration by using SERP can only be done by authorized repair centers.

P = Primary Side, S = Secondary Side

Side	Pos	Description	Part Number	Comments
S	B100	VCTCXO module, 3.2x2.5	RTL204905/2	Calibration Required
P	B1200	MR SENSOR	RYT101956/1	
S	B300	Crystal 32768HZ +-20PPM 12.5pF	RTM501911/2	Calibration Required
S	C107	33pF 5% 0201 16V C0G	RJC4633012/33	
P	C1512	1.0uF 10% 0402 6.3V X5R	RJC5163027/1	
S	C155	1.0 pF, 0201. +/- .1 pF	RJCUA5523201/1	
S	C156	1.1 pF, 0201. +/- .1 pF	RJCUA5523201/11	
P	D1000	Bluetooth E-STLC2500C4	RYT123923/2	
S	D1500	IC	RYT109922/2	
S	E1001	LINDSAY/SHIELD CAN/RF	SXA1097559	
S	E1002	LINDSAY/SHIELD/FENCE/BBAND	SXA1097560	
S	E1002 Lid	LINDSAY/SHIELD/LID/BBAND	SXA1097561	
S	L100	15nH 5% 0603 multilayer	REG7049542/15	
S	L113	3.9NH 0402 2% WIREWOUND	REG7041181/39G	
S	L116	1.0NH 0402 5% WIREWOUND	REG7041181/1	



Side	Pos	Description	Part Number	Comments
S	L117	1.8 NH 0402 5% WIREWOUND	REG7041181/18	
S	L118	18nH 3% 0201	REG7245182/18NH	
S	L1800	Ind WW 10.0 uH +/-20% 4.0×4.0×1.2mm	1210-6987	
S	N101	CONCORD RF ASIC, HVQFN-48 pb free	ROP1013060/1	Calibration Required MS3
S	N1300	IC, ACCELEROMETER	ROP1013097/1	W580 Only
S	N1800	IC N;FLEX LIGHTNING MANAGEMENT;BYX101562	RYT1137827/2	
S	N200	LDO. 2.8V. 150mA. CS-4	RYT113955/2	Same part as N900
S	N2000	ASIC Vincenne2 A07 1.8V Cu-Plug Thin Ni (Pb-free package)	ROP1013066/6	
P	N2001	OPAMP 1W Pb-Free	RYT101947/2	
P	N2002	EMI filter and ESD	ROP1013074/1	
S	N2005	LeadfreeversionofRYT113923/1	RYT113923/2	
S	N201	PA Module, 22 TERMINAL LGA	RYT101988/1	Calibration Required MS3
P	N700	1.8V low noise 150mA LDO regulator.	RYT113955/1	
P	N701	2.8V low noise 150mA LDO regulator.	RYT113955/2	
P	N702	LDO1.3 V, 200mA, low noise, CS-5	RYT1137816/3	
P	N900	LDO. 2.8V. 150mA. CS-4	RYT113955/2	Same part as N200
P	N901	FM-RADIO + RDS	RYT109937/1	W580 Only
S	S1900	Cyndi/Side push switch	RMD10116/9	
S	V1800	N-CHNL FET,SOT363	RYN123645/1	
S	V1900	SWI X2 75V 2X75mA SC75	RKZ123904/1	
P	V602	P-CHANNEL MOSFET	RYN122684/2	
P	V604			
P	V607	DIODE V,EPITAXIAL_SCHOTTKY_DIODE,SOT23C	RKZ123911/1	
S	X100	Connector, RF Test	RPT79947	
S	X101	Conn Other	RNT79925	
P	X1402	Sim Reader	RNK87145	
P	X1900	Cyndi/100 Pin BtB (female)	RNV79987	
P	X600	LINDSAY/CONNECTOR/BATTERY	SND10630	
S	Z102	Front End Module	RYT901968/1	Calibration Required MS3



2 Revision History

Rev.	Date	Changes / Comments
A	2007-May-17	Initial Release
B	2007-Sep-13	Changed some descriptions to match eStar. Added parts adjacent to Antenna Connector and Test Connector: C107, C155, C156, L100, L113, L116, L117, L118. Added N700 for Camera failures. Added V1800 for Display failures. Added N2000 for several failure symptoms.
3	2008-Apr-02	Added N900 for FM radio. Same part as N200. Changed document number and revision to new format.
4	2008-Jun-05	Added N701 and N702 for camera failures.
5	2008-Aug-12	Removed L600 (REG72489/13) and V605 (RKZ123905/2) because they do not successfully repair Power On failures.
6	2008-Aug-20	Added C1512 (RJC5163027/1) for charging and PHF failures. Added L1800 (1210-6987) for display illumination failures.