



PART LIST, Electrical

Applicable for Z520a, Z520c, Z520i, Z525a, Z525i

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1 Component Baking

Some components in this part list contain the following note in their comments column: “**MSL X**; Part must be baked prior to use”. The presence of this note indicates that the component is moisture sensitive and must be baked prior to use. There are different levels of moisture sensitivity at which a component may be rated. Below is a list explaining the various levels of moisture sensitivity.

- Level 1** **unlimited floor life**; does not require dry pack or re-baking.
- Level 2** **1 year floor life**; $\leq 30^{\circ}\text{C}$; 60% relative humidity (rh); shipped in dry pack; must be re-baked after being opened if floor life is exceeded.
- Level 2A** **4 weeks floor life**; $\leq 30^{\circ}\text{C}$; 60% rh; shipped in dry pack; must be re-baked after being opened if floor life is exceeded.
- Level 3** **168 hours floor life**; $\leq 30^{\circ}\text{C}$; 60% rh; shipped in dry pack; must be re-baked after being opened if floor life is exceeded.
- Level 4** **72 hours floor life**; $\leq 30^{\circ}\text{C}$; 60% rh; shipped in dry pack; must be re-baked after being opened if floor life is exceeded.

More detailed information may be found in the most recent version of the IPC/JEDEC J-STD-033A standard. The standard is available online at <http://www.jedec.org/>.

2 PCB Components

P = Primary Side, S = Secondary Side

Side	Pos	Description	Part Number	Comments
P	B1200	Crystal 13MHz 5*3,2mm	RTM501907/7	Use /2 until depleted Calibration Required
P	C1258	APACITOR/0.5pF +/-0.1pF 0402 50V C0G	RJC 463 0020/5	ROA1281765 Only
P	B300	Crystal 32768HZ +-20PPM 12.5pF	RTM501908/2	Calibration Required
P	D201	IRDA Transceiver	RKZ923922/1	
P	L1206	4.7NH +/-0.2nH 0402 WIREWOUND	REGUA7041181/47	
P	L1207	INDUCTOR/1.0nH +/-0.3nH 0402	REG7249301/1	ROA1281765 Only
P	L1208	Multilayer		
P	L1211	INDUCTOR/120nH 5% 0402 Multilayer	REG 724 9343/12	ROA1281765 Only
P	N1203	ASIC Tilde 6x6 (Pb-free package)	ROP1013073/1	MSL 3; Part must be baked prior to use Calibration Required Large Hot Air Device Required
P	N1301	PA+Antenna Switch for Quad Band	RYT101961/1	MSL 3; Part must be baked prior to use Calibration Required BGA Equipment Required (Split Vision)
P	N1302	2.8V low noise 150mA LDO regulator.	RYT113955/2	BGA Equipment Required (Split Vision)
S	N400	MR SENSOR	RYT101956/1	
S	N500	IC, LED Driver, 9 Output, QFN-16	RYT113989/1	
P	N602	DUAL Analog Switch DUAL SPDT, NoPb	RYN901905/2	BGA Equipment Required (Split Vision)

Side	Pos	Description	Part Number	Comments
P	N700	Tjatte 2	ROP1013059/2	MSL 3; Part must be baked prior to use BGA Equipment Required (Split Vision)
P	N701	2.5 W Audio Amp LeadFree	RYT101970/1	BGA Equipment Required (Split Vision)
P	N703	Leadfree version of RYT113923/1 (voltage regulator)	RYT113923/2	BGA Equipment Required (Split Vision)
P	N801	3.3V low noise 150mA LDO regulator. Pb-Free	RYT113955/5	BGA Equipment Required (Split Vision)
P	N802	LED driver, Pb-Free ver of /1	RYT113919/2	MSL 3; Part must be baked prior to use BGA Equipment Required (Split Vision)
P	R1242 R1245	0ohm +50mohm 0402 1A	REP622001/0	ROA1281667 Only Z520i and Z520c only
P	V1200 V1201	Tuning diodeLead free	RKZ323905/1	Calibration Required
S	V500	diode, 75V, 2x75mA, SOT416	RKZ123909/1	
S	V501- V508 V510- V516 V519- V522 V700	LED, Blue, Top firing, 1.6X0.8X0.4	RKZ433952/1	
S	V538- V540	6835R-NPN	RYN1216043/1	
S	V600	MOSFET Complementary N+P 20-V (D-S) [NoPb]	RYN901918/1	
S	V601	6835R-NPN	RYN1216043/1	
P	V604	USB EMI filter Pb-Free ver of /1	RKZ923908/3	BGA Equipment Required (Split Vision)
S	V608	Zener Diode voltage reg 15V 5%	RKZ223905/2	
P	V803 V804	P-CHANNEL MOSFET	RYN122684/2	
P	V808	Diode, Schottky	RKZ123911/1	
P	X1101 X1102 X1209 X1210 X1211	CONN/ANTENNA/(ZOE)	SND10419	RF and Bluetooth Antenna Connectors
P	X1201	RF Connector	RNV79960/1	
S	X1206 X1207	SPRING/CONTACT/PCB MTG/ZOE	SXA1342736	
S	X520	ZIF connector – 6 position – miniature	RPT89999/6	
P	X701	K700i/SIM-Holder	RNK860118	
P	X703- X704	T28/CONTACT SPRING LOUDSPEAKER	SND21046/1	
S	X706	MIC/6MM X 1MM/FLEX(ZOE)	RLC509436	
P	X750	Violetta/50 Pin BtB,female	RNV79941	
P	X800	K700i/Battery connector	SND10620	
P	Z1201	8325C1, 1900MHz Rx SAW Filter	RTN201985/1	MSL 3; Part must be baked prior to use BGA Equipment Required (Split Vision)



Side	Pos	Description	Part Number	Comments
P	Z1202	8327C1, 1800-MHz Rx SAW	RTN201984/1	MSL 3; Part must be baked prior to use BGA Equipment Required (Split Vision)
P	Z1203	8324C1, 900MHz Rx SAW Filter	RTN201986/1	MSL 3; Part must be baked prior to use BGA Equipment Required (Split Vision)
P	Z1204	8323C1, 850MHz Rx SAW Filter	RTN201987/1	MSL 3; Part must be baked prior to use BGA Equipment Required (Split Vision)

3 Shield Cans

Side	Pos	Webshop Description	Part Number	Comments
P	X900	FENCE/BASEBAND/(ZOE)	SXA1095179	
P	X901	FENCE/RF(ZOE)	SXA1095180	
P	Covers X901 Right	LID/SHIELD/RFÄ1/ZOE	SXA2147015	
P	Covers X901 Left	LID/RF SHIELD Ä2/(ZOE)	SXA1095241	
P	Covers X900	LID/BASEBAND/ZOE	SXA2147016	

4 Revision History

Rev.	Date	Changes / Comments
A	2005-Aug-11	Initial Release
B	2006-Jan-09	Removed Bluetooth, ROK103006/2, position N1101. This part is must not be replaced at this time. Added resistor REP622001/0 for positions R1242 and R1245.
C	2006-Apr-11	Changed B1200 variant from /2 to /7. Added model Z525a.
D	2006-May-01	Added V608 – RKZ223905/2
E	2006-May-16	Added L1206 - REGUA7041181/47
F	2006-Jun-27	Added model Z525i.
G	2007-Mar-07	Added C1258, L1207, L1208, and L1211 for ROA1281765. Added ROA1281667 Only note to R1242 and R1245.
8	2008-Jul-21	Calibration required for RTM 501 908/2