

Nokia Customer Care

2 - Parts Lists and Component Layouts

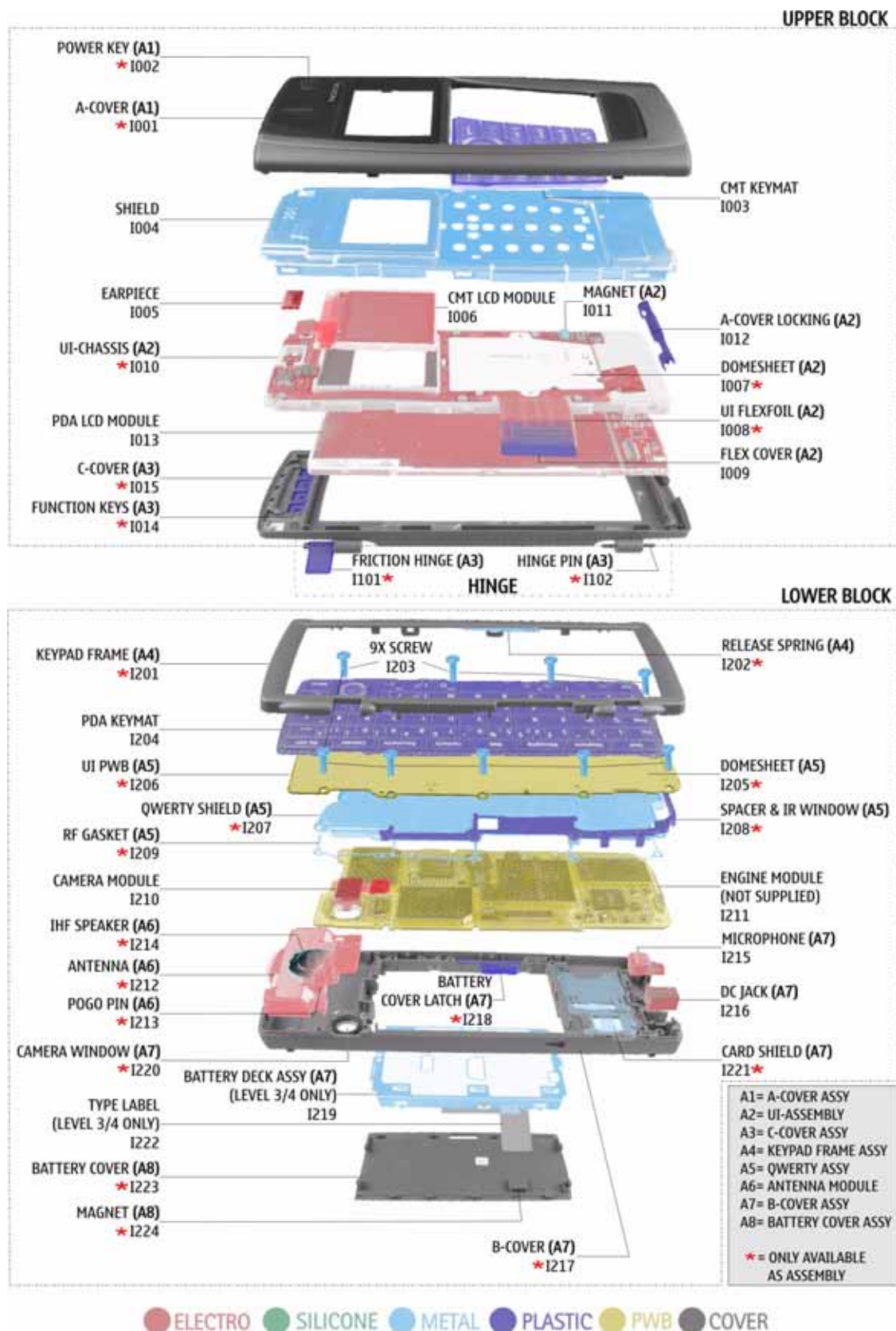
[This page intentionally blank]

Table of Contents

| | Page No |
|--|----------------|
| Exploded View of RA-2/3 | 5 |
| Mechanical parts..... | 6 |
| Operator variants | 8 |
| Parts List for RA-2 Engine Module (1bt_15e) | 9 |
| Variant parts for RA-3 engine module..... | 43 |
| Parts not assembled in RA-3 | 43 |
| RA-2 component layout diagram - Top | 44 |
| RA-2 component layout diagram - Bottom..... | 45 |

[This page intentionally blank]

Exploded View of RA-2/3



■ Mechanical parts

| ITEM/_CIRCUIT REF. | QTY | PART NO | PART NAME |
|--------------------|-----|---------|-------------------|
| | 1 | XXXXXXX | A-COVER ASSY |
| I001 | 1 | | A-COVER |
| I002 | 1 | | POWER KEY |
| | | | |
| I003 | 1 | XXXXXXX | CMT KEYMAT |
| I004 | 1 | 9491754 | SHIELD |
| I005 | 1 | 5140285 | EARPIECE |
| I006 | 1 | 4850827 | CMT LCD MODULE |
| | | | |
| | 1 | 9491753 | UI ASSEMBLY |
| I007 | 1 | - | DOMESHEET |
| I008 | 1 | - | UI FLEXFOIL |
| I009 | 1 | 9460627 | FLEX COVER |
| I010 | 1 | - | UI CHASSIS |
| I011 | 1 | 6442499 | MAGNET |
| I012 | 1 | 9491773 | A-COVER LOCKING |
| | | | |
| I013 | 1 | 4850839 | PDA LCD MODULE |
| | | | |
| | 1 | 9491650 | C-COVER ASSY |
| I014 | 1 | - | FUNCTION KEYS |
| I015 | 1 | - | C-COVER |
| I101 | 1 | - | FRICTION HINGE |
| I102 | 1 | - | HINGE PIN |
| | | | |
| | 1 | 9490610 | KEYPAD FRAME ASSY |
| I201 | 1 | - | KEYPAD FRAME |
| I202 | 1 | - | RELEASE SPRING |
| | | | |

| ITEM/_CIRCUIT REF. | QTY | PART NO | PART NAME |
|--------------------|-----|---------|--------------------------|
| I203 | 9 | 6290949 | SCREWS T5+ |
| I204 | 1 | XXXXXXX | PDA KEYMAT |
| | | | |
| | 1 | 9517334 | QWERTY ASSY |
| I205 | 1 | - | DOMESHEET |
| I206 | 1 | - | UI PWB |
| I207 | 1 | - | QWERTY SHIELD |
| I208 | 1 | - | SPACER (INCL. IR WINDOW) |
| I209 | 1 | - | RF GASKET |
| | | | |
| I210 | 1 | 4858041 | CAMERA MODULE |
| I211 | 1 | - | ENGINE MODULE |
| | | | |
| | 1 | 5650065 | ANTENNA MODULE |
| I212 | 1 | - | ANTENNA |
| I213 | 1 | - | POGO PIN |
| I214 | 1 | - | IHF SPEAKER |
| | | | |
| | 1 | 9491915 | B-COVER ASSY |
| I215 | 1 | 5140265 | MICROPHONE |
| I216 | 1 | 5400243 | DC JACK |
| I217 | 1 | - | B-COVER |
| I218 | 1 | - | BATTERY COVER LATCH |
| I219 | 1 | 9517396 | BATTERY DECK ASSY |
| I220 | 1 | - | CAMERA WINDOW |
| I221 | 1 | - | CARD SHIELD |
| | | | |
| I222 | 1 | 9370634 | TYPE LABEL |
| | | | |
| | 1 | 9491969 | BATTERY COVER ASSY |

| ITEM/_CIRCUIT REF. | QTY | PART NO | PART NAME |
|--------------------|-----|---------|---------------|
| I223 | 1 | - | BATTERY COVER |
| I224 | 1 | - | MAGNET |

Parts List for RA-2 Engine Module (1bt_15e)

| Item | Code | Location Side/Grid/Ref | | | Type | Description and Value | |
|-------|---------|---------------------------|---|---|------------------|----------------------------------|-----------|
| A2001 | 9517308 | Top | V | 4 | SHIELD_DMC06571 | RF SHIELD ASSEMBLY DMC06571 RA-2 | ~ |
| A2002 | 9517308 | Top | Q | 8 | SHIELD_DMC06571 | RF SHIELD ASSEMBLY DMC06571 RA-2 | ~ |
| A2003 | 9517323 | Top | D | 4 | SHIELD_WLAN | WLAN SHIELD ASSY DMC06778 | ~ |
| A2004 | 9517322 | Bottom | E | 3 | SHIELD_BT | BT SHIELD ASSEMBLY DMC06777 RA-2 | ~ |
| A2005 | 9517321 | Top | J | 5 | SHIELD_BB | BB SHIELD ASSEMBLY DMC06779 RA-2 | ~ |
| A2006 | 9511280 | Top | W | 8 | CAMERA_SHIELD | CAMERA SHIELD DMD11508 RA-2 | ~ |
| B2200 | 4510219 | Top | S | 2 | CRYSTAL_CX_4V | CRYSTAL 32.768KHZ+-30PPM 9PF | 32.768kHz |
| B4800 | 4510423 | Top | M | 6 | CRYSTAL_NX4025DA | CRYSTAL 12.0MHZ +-15PPM 10PF | 12MHz |
| C2000 | 2320481 | Top | M | 1 | 0603C | CHIPCAP X5R 1U K 6V3 0603 | 1u0 |
| C2001 | 2320778 | Top | N | 1 | 0402C | Chipcap X7R 10% 16V 0402 | 10n |
| C2002 | 2320481 | Top | M | 1 | 0603C | CHIPCAP X5R 1U K 6V3 0603 | 1u0 |
| C2003 | 2320633 | Bottom | C | 6 | 0402C | CHIPCAP NP0 220P J 25V 0402 | 220p |
| C2004 | 2320805 | Bottom | C | 5 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C2005 | 2316001 | Top | B | 7 | 0603C | CHIPCAP X5R 2U2 K 6V3 0603 | 2u2 |
| C2006 | 2320481 | Top | A | 6 | 0603C | CHIPCAP X5R 1U K 6V3 0603 | 1u0 |

| Item | Code | Location Side/Grid/Ref | | | Type | Description and Value | |
|-------|---------|---------------------------|---|---|----------------------|------------------------------------|-------|
| C2007 | 2320778 | Top | B | 6 | 0402C | Chipcap X7R 10% 16V 0402 | 10n |
| C2008 | 2320596 | Bottom | B | 3 | 0402C | Chipcap 5% X7R | 3n3 |
| C2009 | 2320596 | Bottom | B | 4 | 0402C | Chipcap 5% X7R | 3n3 |
| C2010 | 2320596 | Bottom | B | 4 | 0402C | Chipcap 5% X7R | 3n3 |
| C2011 | 2320596 | Bottom | B | 4 | 0402C | Chipcap 5% X7R | 3n3 |
| C2012 | 2320596 | Bottom | B | 4 | 0402C | Chipcap 5% X7R | 3n3 |
| C2013 | 2320596 | Bottom | B | 4 | 0402C | Chipcap 5% X7R | 3n3 |
| C2026 | 2320584 | Bottom | A | 9 | 0402C | Chipcap 5% X7R | 1n0 |
| C2030 | 2320538 | Bottom | B | 9 | 0402C | Chipcap 5% NP0 | 12p |
| C2037 | 2320538 | Bottom | C | 4 | 0402C | Chipcap 5% NP0 | 12p |
| C2038 | 2320538 | Bottom | C | 4 | 0402C | Chipcap 5% NP0 | 12p |
| C2070 | 2320481 | Bottom | W | 3 | 0603C | CHIPCAP X5R 1U K 6V3 0603 | 1u0 |
| C2104 | 2320143 | Top | I | 1 | 0402C | Chipcap X5R 10% 6.3V 0402 | 220n |
| C2105 | 2320143 | Top | J | 1 | 0402C | Chipcap X5R 10% 6.3V 0402 | 220n |
| C2107 | 2320805 | Top | J | 2 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C2108 | 2320805 | Top | J | 2 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C2109 | 2320481 | Top | J | 2 | 0603C | CHIPCAP X5R 1U K 6V3 0603 | 1u0 |
| C2110 | 2320805 | Top | J | 2 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C2120 | 2320505 | Top | R | 1 | 0603C | CHIPCAP X5R 4U7 K 6V3 0603 | 4u7 |
| C2121 | 2320544 | Top | R | 2 | 0402C | Chipcap 5% NP0 | 22p |
| C2122 | 2315259 | Top | R | 2 | 0405_2_P0.65_AV X | CHIP ARRAY X5R 2X33N K 10V 0405 | 2x33n |
| C2123 | 2320544 | Bottom | B | 6 | 0402C | Chipcap 5% NP0 | 22p |
| C2124 | 2320505 | Top | Q | 2 | 0603C | CHIPCAP X5R 4U7 K 6V3 0603 | 4u7 |

| Item | Code | Location Side/Grid/Ref | | | Type | Description and Value | |
|-------|---------|---------------------------|---|---|----------------------|------------------------------------|----------|
| C2125 | 2320544 | Top | Q | 2 | 0402C | Chipcap 5% NP0 | 22p |
| C2126 | 2320805 | Top | R | 1 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C2127 | 2315259 | Top | R | 2 | 0405_2_P0.65_AV X | CHIP ARRAY X5R 2X33N K 10V 0405 | 2x33n |
| C2128 | 2320744 | Top | R | 1 | 0402C | Chipcap X7R 10% 50V 0402 | 1n0 |
| C2129 | 2320805 | Top | R | 2 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C2130 | 2320805 | Top | J | 2 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C2131 | 2610041 | Bottom | G | 3 | TANT_TPSY | CHIPTCAP 220U M 10V 7.3X4.3X2.0 | 220u_10V |
| C2132 | 2320744 | Top | Q | 1 | 0402C | Chipcap X7R 10% 50V 0402 | 1n0 |
| C2133 | 2320805 | Top | R | 1 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C2134 | 2320560 | Bottom | X | 5 | 0402C | Chipcap 5% NP0 | 100p |
| C2135 | 2320560 | Bottom | X | 5 | 0402C | Chipcap 5% NP0 | 100p |
| C2136 | 2320805 | Top | L | 2 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C2137 | 2320805 | Top | L | 2 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C2138 | 2320556 | Top | K | 1 | 0402C | Chipcap 5% NP0 | 68p |
| C2139 | 2320556 | Top | K | 1 | 0402C | Chipcap 5% NP0 | 68p |
| C2200 | 2320481 | Top | S | 3 | 0603C | CHIPCAP X5R 1U K 6V3 0603 | 1u0 |
| C2201 | 2320778 | Top | S | 3 | 0402C | Chipcap X7R 10% 16V 0402 | 10n |
| C2202 | 2320481 | Top | S | 3 | 0603C | CHIPCAP X5R 1U K 6V3 0603 | 1u0 |
| C2203 | 2320481 | Top | S | 4 | 0603C | CHIPCAP X5R 1U K 6V3 0603 | 1u0 |
| C2204 | 2320481 | Top | P | 3 | 0603C | CHIPCAP X5R 1U K 6V3 0603 | 1u0 |

| Item | Code | Location Side/Grid/Ref | | | Type | Description and Value | |
|-------|---------|---------------------------|---|---|-------|--------------------------------|------|
| C2205 | 2320481 | Top | R | 5 | 0603C | CHIPCAP X5R 1U K 6V3 0603 | 1u0 |
| C2206 | 2320536 | Top | S | 2 | 0402C | Chipcap 5% NP0 | 10p |
| C2207 | 2320536 | Top | S | 2 | 0402C | Chipcap 5% NP0 | 10p |
| C2208 | 2320481 | Top | S | 2 | 0603C | CHIPCAP X5R 1U K 6V3 0603 | 1u0 |
| C2209 | 2320481 | Top | S | 2 | 0603C | CHIPCAP X5R 1U K 6V3 0603 | 1u0 |
| C2210 | 2320481 | Top | S | 2 | 0603C | CHIPCAP X5R 1U K 6V3 0603 | 1u0 |
| C2211 | 2320481 | Top | S | 2 | 0603C | CHIPCAP X5R 1U K 6V3 0603 | 1u0 |
| C2212 | 2320481 | Top | Q | 2 | 0603C | CHIPCAP X5R 1U K 6V3 0603 | 1u0 |
| C2213 | 2320481 | Top | Q | 1 | 0603C | CHIPCAP X5R 1U K 6V3 0603 | 1u0 |
| C2214 | 2320481 | Top | P | 2 | 0603C | CHIPCAP X5R 1U K 6V3 0603 | 1u0 |
| C2215 | 2320805 | Top | P | 3 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C2216 | 2320805 | Top | P | 4 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C2217 | 2320805 | Top | P | 4 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C2218 | 2320805 | Top | P | 5 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C2219 | 2320481 | Top | Q | 5 | 0603C | CHIPCAP X5R 1U K 6V3 0603 | 1u0 |
| C2220 | 2320481 | Top | Q | 5 | 0603C | CHIPCAP X5R 1U K 6V3 0603 | 1u0 |
| C2221 | 2320481 | Top | Q | 5 | 0603C | CHIPCAP X5R 1U K 6V3 0603 | 1u0 |
| C2222 | 2320481 | Top | P | 5 | 0603C | CHIPCAP X5R 1U K 6V3 0603 | 1u0 |
| C2223 | 2320481 | Top | Q | 5 | 0603C | CHIPCAP X5R 1U K 6V3 0603 | 1u0 |

| Item | Code | Location Side/Grid/Ref | | | Type | Description and Value | |
|-------|---------|---------------------------|---|---|-------|--------------------------------|------|
| C2224 | 2320778 | Top | Q | 2 | 0402C | Chipcap X7R 10% 16V 0402 | 10n |
| C2225 | 2320778 | Top | P | 2 | 0402C | Chipcap X7R 10% 16V 0402 | 10n |
| C2226 | 2320744 | Top | Q | 2 | 0402C | Chipcap X7R 10% 50V 0402 | 1n0 |
| C2227 | 2320744 | Top | P | 2 | 0402C | Chipcap X7R 10% 50V 0402 | 1n0 |
| C2228 | 2320481 | Top | R | 5 | 0603C | CHIPCAP X5R 1U K 6V3 0603 | 1u0 |
| C2229 | 2320481 | Top | R | 5 | 0603C | CHIPCAP X5R 1U K 6V3 0603 | 1u0 |
| C2230 | 2320481 | Top | Q | 5 | 0603C | CHIPCAP X5R 1U K 6V3 0603 | 1u0 |
| C2231 | 2320481 | Top | P | 5 | 0603C | CHIPCAP X5R 1U K 6V3 0603 | 1u0 |
| C2232 | 2320481 | Top | Q | 5 | 0603C | CHIPCAP X5R 1U K 6V3 0603 | 1u0 |
| C2233 | 2320481 | Top | Q | 5 | 0603C | CHIPCAP X5R 1U K 6V3 0603 | 1u0 |
| C2270 | 2320805 | Top | S | 4 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C2271 | 2320805 | Top | S | 4 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C2272 | 2320481 | Top | S | 5 | 0603C | CHIPCAP X5R 1U K 6V3 0603 | 1u0 |
| C2273 | 2320481 | Top | S | 5 | 0603C | CHIPCAP X5R 1U K 6V3 0603 | 1u0 |
| C2274 | 2320481 | Top | S | 5 | 0603C | CHIPCAP X5R 1U K 6V3 0603 | 1u0 |
| C2275 | 2320481 | Top | P | 3 | 0603C | CHIPCAP X5R 1U K 6V3 0603 | 1u0 |
| C2276 | 2320481 | Top | S | 4 | 0603C | CHIPCAP X5R 1U K 6V3 0603 | 1u0 |
| C2277 | 2320481 | Top | R | 5 | 0603C | CHIPCAP X5R 1U K 6V3 0603 | 1u0 |

| Item | Code | Location Side/Grid/Ref | | | Type | Description and Value | |
|-------|---------|---------------------------|---|---|----------|--------------------------------|------|
| C2330 | 2320481 | Top | R | 5 | 0603C | CHIPCAP X5R 1U K 6V3 0603 | 1u0 |
| C2331 | 2320481 | Top | S | 4 | 0603C | CHIPCAP X5R 1U K 6V3 0603 | 1u0 |
| C2332 | 2320481 | Top | S | 5 | 0603C | CHIPCAP X5R 1U K 6V3 0603 | 1u0 |
| C2333 | 2320481 | Top | S | 5 | 0603C | CHIPCAP X5R 1U K 6V3 0603 | 1u0 |
| C2334 | 2320481 | Top | R | 5 | 0603C | CHIPCAP X5R 1U K 6V3 0603 | 1u0 |
| C2335 | 2320481 | Top | P | 2 | 0603C | CHIPCAP X5R 1U K 6V3 0603 | 1u0 |
| C2400 | 2320552 | Bottom | V | 2 | 0402C | Chipcap 5% NP0 | 47p |
| C2700 | 2320805 | Bottom | D | 9 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C2880 | 2320778 | Top | O | 3 | 0402C | Chipcap X7R 10% 16V 0402 | 10n |
| C2881 | 2320805 | Top | M | 2 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C2882 | 2320778 | Top | M | 3 | 0402C | Chipcap X7R 10% 16V 0402 | 10n |
| C2883 | 2320778 | Top | O | 1 | 0402C | Chipcap X7R 10% 16V 0402 | 10n |
| C2884 | 2320778 | Top | O | 3 | 0402C | Chipcap X7R 10% 16V 0402 | 10n |
| C2885 | 2320778 | Top | M | 2 | 0402C | Chipcap X7R 10% 16V 0402 | 10n |
| C2900 | 2320560 | Top | P | 5 | 0402C | Chipcap 5% NP0 | 100p |
| C2901 | 2320560 | Top | P | 5 | 0402C | Chipcap 5% NP0 | 100p |
| C2902 | 2320560 | Top | O | 4 | 0402C | Chipcap 5% NP0 | 100p |
| C3030 | 2320778 | Top | P | 4 | 0402C | Chipcap X7R 10% 16V 0402 | 10n |
| C3031 | 2320805 | Top | O | 4 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C3032 | 2320779 | Top | O | 5 | 0603_BLM | CHIPCAP X7R 100N K 16V 0603 | 100n |

| Item | Code | Location Side/Grid/Ref | | | Type | Description and Value | |
|-------|---------|---------------------------|---|--------|-------|--------------------------------|------|
| C3181 | 2320544 | Top | N | 1 | 0402C | Chipcap 5% NP0 | 22p |
| C3182 | 2320544 | Top | O | 1 | 0402C | Chipcap 5% NP0 | 22p |
| C3183 | 2320544 | Top | O | 1 | 0402C | Chipcap 5% NP0 | 22p |
| C4100 | 2320805 | Top | K | 2 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C4101 | 2320544 | Top | L | 2 | 0402C | Chipcap 5% NP0 | 22p |
| C4102 | 2320805 | Top | K | 1 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C4103 | 2310037 | Top | K | 1 | 0805C | CHIPCAP X5R 10U M 6V3 0805 | 10U |
| C4104 | 2320805 | Top | M | 1 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C4105 | 2320760 | Top | L | 1 | 0402C | Chipcap X7R 10% 25V 0402 | 4n7 |
| C4200 | 2316001 | Bottom | E | 1 0 | 0603C | CHIPCAP X5R 2U2 K 6V3 0603 | 2u2 |
| C4201 | 2320783 | Bottom | D | 1 0 | 0402C | CHIPCAP X7R 33N K 10V 0402 | 33n |
| C4202 | 2316001 | Bottom | F | 9 | 0603C | CHIPCAP X5R 2U2 K 6V3 0603 | 2u2 |
| C4203 | 2320778 | Top | I | 4 | 0402C | Chipcap X7R 10% 16V 0402 | 10n |
| C4204 | 2320778 | Top | G | 9 | 0402C | Chipcap X7R 10% 16V 0402 | 10n |
| C4206 | 2320805 | Top | I | 3 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C4207 | 2320805 | Top | F | 9 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C4208 | 2310037 | Top | I | 3 | 0805C | CHIPCAP X5R 10U M 6V3 0805 | 10U |
| C4209 | 2310037 | Top | F | 9 | 0805C | CHIPCAP X5R 10U M 6V3 0805 | 10U |
| C4212 | 2310037 | Top | F | 1 0 | 0805C | CHIPCAP X5R 10U M 6V3 0805 | 10U |
| C4213 | 2310037 | Top | G | 1 0 | 0805C | CHIPCAP X5R 10U M 6V3 0805 | 10U |

| Item | Code | Location Side/Grid/Ref | | | Type | Description and Value | |
|-------|---------|---------------------------|---|--------|-------|--------------------------------|------|
| C4214 | 2310037 | Top | I | 4 | 0805C | CHIPCAP X5R 10U M 6V3 0805 | 10U |
| C4215 | 2310037 | Top | I | 4 | 0805C | CHIPCAP X5R 10U M 6V3 0805 | 10U |
| C4220 | 2320778 | Top | G | 1 0 | 0402C | Chipcap X7R 10% 16V 0402 | 10n |
| C4400 | 2320805 | Top | U | 9 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C4402 | 2320805 | Top | U | 7 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C4403 | 2320544 | Top | N | 8 | 0402C | Chipcap 5% NP0 | 22p |
| C4404 | 2320544 | Top | N | 9 | 0402C | Chipcap 5% NP0 | 22p |
| C4405 | 2320544 | Top | N | 1 0 | 0402C | Chipcap 5% NP0 | 22p |
| C4406 | 2320544 | Top | N | 1 0 | 0402C | Chipcap 5% NP0 | 22p |
| C4407 | 2320552 | Top | V | 9 | 0402C | Chipcap 5% NP0 | 47p |
| C4408 | 2320552 | Top | V | 9 | 0402C | Chipcap 5% NP0 | 47p |
| C4409 | 2320552 | Top | U | 9 | 0402C | Chipcap 5% NP0 | 47p |
| C4410 | 2320552 | Top | U | 9 | 0402C | Chipcap 5% NP0 | 47p |
| C4411 | 2320552 | Top | V | 9 | 0402C | Chipcap 5% NP0 | 47p |
| C4412 | 2320552 | Top | V | 8 | 0402C | Chipcap 5% NP0 | 47p |
| C4413 | 2320552 | Top | V | 7 | 0402C | Chipcap 5% NP0 | 47p |
| C4414 | 2320552 | Top | V | 8 | 0402C | Chipcap 5% NP0 | 47p |
| C4415 | 2320552 | Top | U | 7 | 0402C | Chipcap 5% NP0 | 47p |
| C4416 | 2320552 | Top | V | 7 | 0402C | Chipcap 5% NP0 | 47p |
| C4417 | 2320552 | Top | V | 7 | 0402C | Chipcap 5% NP0 | 47p |
| C4419 | 2320536 | Bottom | G | 8 | 0402C | Chipcap 5% NP0 | 10p |
| C4420 | 2320778 | Bottom | G | 9 | 0402C | Chipcap X7R 10% 16V 0402 | 10n |
| C4421 | 2310037 | Top | U | 9 | 0805C | CHIPCAP X5R 10U M 6V3 0805 | 10U |

| Item | Code | Location Side/Grid/Ref | | | Type | Description and Value | |
|-------|---------|---------------------------|---|---|----------------------|--------------------------------------|-------|
| C4422 | 2310037 | Top | U | 7 | 0805C | CHIPCAP X5R 10U M 6V3 0805 | 10U |
| C4490 | 2312201 | Top | B | 8 | 0805C_H0.95 | CHIPCAP X5R 4U7 K 6V3 T=0.95 0805 | 4u7 |
| C4492 | 2320805 | Top | B | 7 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C4493 | 2320805 | Top | B | 7 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C4800 | 2320548 | Top | M | 6 | 0402C | Chipcap 5% NP0 | 33p |
| C4801 | 2320548 | Top | M | 6 | 0402C | Chipcap 5% NP0 | 33p |
| C4802 | 2320538 | Top | N | 7 | 0402C | Chipcap 5% NP0 | 12p |
| C4803 | 2320805 | Top | J | 8 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C4804 | 2320805 | Top | L | 5 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C4805 | 2320481 | Top | J | 8 | 0603C | CHIPCAP X5R 1U K 6V3 0603 | 1u0 |
| C4806 | 2310037 | Top | M | 8 | 0805C | CHIPCAP X5R 10U M 6V3 0805 | 10U |
| C4807 | 2320805 | Top | M | 7 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C4808 | 2320805 | Top | L | 5 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C4809 | 2320778 | Top | L | 5 | 0402C | Chipcap X7R 10% 16V 0402 | 10n |
| C4810 | 2320805 | Top | K | 5 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C4811 | 2320778 | Top | M | 6 | 0402C | Chipcap X7R 10% 16V 0402 | 10n |
| C4812 | 2320805 | Top | L | 4 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C4813 | 2315257 | Top | L | 8 | 0405_2_P0.65_AV X | CHIP ARRAY X5R 2X10N K 16V 0405 | 2x10n |
| C4814 | 2315257 | Top | J | 5 | 0405_2_P0.65_AV X | CHIP ARRAY X5R 2X10N K 16V 0405 | 2x10n |

| Item | Code | Location Side/Grid/Ref | | | Type | Description and Value | |
|-------|---------|---------------------------|---|---|----------------------|------------------------------------|-------|
| C4815 | 2315257 | Top | L | 8 | 0405_2_P0.65_AV X | CHIP ARRAY X5R 2X10N K 16V 0405 | 2x10n |
| C4816 | 2315257 | Top | J | 5 | 0405_2_P0.65_AV X | CHIP ARRAY X5R 2X10N K 16V 0405 | 2x10n |
| C4817 | 2315257 | Top | K | 5 | 0405_2_P0.65_AV X | CHIP ARRAY X5R 2X10N K 16V 0405 | 2x10n |
| C4818 | 2315257 | Top | L | 8 | 0405_2_P0.65_AV X | CHIP ARRAY X5R 2X10N K 16V 0405 | 2x10n |
| C4819 | 2320778 | Top | P | 5 | 0402C | Chipcap X7R 10% 16V 0402 | 10n |
| C5000 | 2320805 | Top | J | 4 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C5001 | 2320805 | Top | J | 3 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C5003 | 2320778 | Top | J | 4 | 0402C | Chipcap X7R 10% 16V 0402 | 10n |
| C5004 | 2320778 | Top | J | 3 | 0402C | Chipcap X7R 10% 16V 0402 | 10n |
| C5083 | 2320805 | Top | H | 5 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C5084 | 2320778 | Top | H | 7 | 0402C | Chipcap X7R 10% 16V 0402 | 10n |
| C5085 | 2320778 | Top | H | 7 | 0402C | Chipcap X7R 10% 16V 0402 | 10n |
| C5086 | 2320805 | Top | H | 5 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C5087 | 2320778 | Top | I | 5 | 0402C | Chipcap X7R 10% 16V 0402 | 10n |
| C5088 | 2320778 | Top | I | 5 | 0402C | Chipcap X7R 10% 16V 0402 | 10n |
| C5089 | 2320778 | Top | H | 5 | 0402C | Chipcap X7R 10% 16V 0402 | 10n |
| C5200 | 2320481 | Bottom | F | 7 | 0603C | CHIPCAP X5R 1U K 6V3 0603 | 1u0 |
| C5201 | 2320481 | Bottom | G | 6 | 0603C | CHIPCAP X5R 1U K 6V3 0603 | 1u0 |

| Item | Code | Location Side/Grid/Ref | | | Type | Description and Value | |
|-------|---------|---------------------------|---|---|-------------|--------------------------------------|------|
| C5202 | 2320481 | Bottom | G | 6 | 0603C | CHIPCAP X5R 1U K 6V3 0603 | 1u0 |
| C5203 | 2320778 | Bottom | G | 6 | 0402C | Chipcap X7R 10% 16V 0402 | 10n |
| C6031 | 2320778 | Bottom | E | 2 | 0402C | Chipcap X7R 10% 16V 0402 | 10n |
| C6033 | 2320778 | Bottom | D | 3 | 0402C | Chipcap X7R 10% 16V 0402 | 10n |
| C6035 | 2320778 | Bottom | E | 2 | 0402C | Chipcap X7R 10% 16V 0402 | 10n |
| C6036 | 2320481 | Bottom | D | 2 | 0603C | CHIPCAP X5R 1U K 6V3 0603 | 1u0 |
| C6038 | 2320778 | Top | M | 7 | 0402C | Chipcap X7R 10% 16V 0402 | 10n |
| C6043 | 2320778 | Bottom | D | 3 | 0402C | Chipcap X7R 10% 16V 0402 | 10n |
| C6044 | 2320540 | Bottom | F | 3 | 0402C | Chipcap 5% NP0 | 15p |
| C6045 | 2320540 | Bottom | E | 4 | 0402C | Chipcap 5% NP0 | 15p |
| C6046 | 2320514 | Bottom | F | 3 | 0402C | Chipcap +-0.25pF NP0 | 1p2 |
| C6047 | 2316001 | Bottom | D | 3 | 0603C | CHIPCAP X5R 2U2 K 6V3 0603 | 2u2 |
| C6048 | 2320522 | Bottom | E | 2 | 0402C | Chipcap +-0.25pF NP0 | 2p7 |
| C6049 | 2320514 | Bottom | F | 3 | 0402C | Chipcap +-0.25pF NP0 | 1p2 |
| C6300 | 2320805 | Top | C | 7 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C6301 | 2316001 | Top | B | 6 | 0603C | CHIPCAP X5R 2U2 K 6V3 0603 | 2u2 |
| C6302 | 2312201 | Top | C | 7 | 0805C_H0.95 | CHIPCAP X5R 4U7 K 6V3 T=0.95 0805 | 4u7 |
| C6303 | 2320778 | Top | C | 6 | 0402C | Chipcap X7R 10% 16V 0402 | 10n |
| C6304 | 2316001 | Top | G | 2 | 0603C | CHIPCAP X5R 2U2 K 6V3 0603 | 2u2 |

| Item | Code | Location Side/Grid/Ref | | | Type | Description and Value | |
|-------|---------|---------------------------|---|--------|-------------|--------------------------------------|------|
| C6305 | 2320778 | Top | G | 2 | 0402C | Chipcap X7R 10% 16V 0402 | 10n |
| C6306 | 2316001 | Top | C | 9 | 0603C | CHIPCAP X5R 2U2 K 6V3 0603 | 2u2 |
| C6307 | 2312201 | Top | B | 9 | 0805C_H0.95 | CHIPCAP X5R 4U7 K 6V3 T=0.95 0805 | 4u7 |
| C6308 | 2320560 | Top | C | 1 0 | 0402C | Chipcap 5% NP0 | 100p |
| C6309 | 2316001 | Top | G | 7 | 0603C | CHIPCAP X5R 2U2 K 6V3 0603 | 2u2 |
| C6310 | 2316001 | Top | F | 7 | 0603C | CHIPCAP X5R 2U2 K 6V3 0603 | 2u2 |
| C6311 | 2320778 | Top | F | 8 | 0402C | Chipcap X7R 10% 16V 0402 | 10n |
| C6312 | 2316001 | Top | E | 1 0 | 0603C | CHIPCAP X5R 2U2 K 6V3 0603 | 2u2 |
| C6313 | 2320805 | Top | E | 9 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C6314 | 2316001 | Top | C | 1 0 | 0603C | CHIPCAP X5R 2U2 K 6V3 0603 | 2u2 |
| C6315 | 2320805 | Top | C | 7 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C6316 | 2320805 | Top | C | 8 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C6317 | 2320805 | Top | C | 7 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C6318 | 2320805 | Top | F | 6 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C6319 | 2320805 | Top | D | 6 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C6320 | 2320805 | Top | C | 7 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C6321 | 2320805 | Top | C | 7 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C6322 | 2320805 | Top | C | 8 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |

| Item | Code | Location Side/Grid/Ref | | | Type | Description and Value | |
|-------|---------|---------------------------|---|--------|-------|--------------------------------|------|
| C6323 | 2320805 | Top | D | 9 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C6324 | 2320805 | Top | F | 9 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C6325 | 2320805 | Top | E | 6 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C6326 | 2320805 | Top | C | 7 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C6327 | 2320805 | Top | E | 9 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C6328 | 2320805 | Top | C | 8 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C6329 | 2320805 | Top | F | 7 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C6330 | 2320805 | Top | F | 8 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C6331 | 2320805 | Top | F | 6 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C6332 | 2320805 | Top | E | 6 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C6333 | 2320805 | Top | E | 6 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C6334 | 2316001 | Top | H | 2 | 0603C | CHIPCAP X5R 2U2 K 6V3 0603 | 2u2 |
| C6335 | 2320805 | Top | E | 9 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C6336 | 2320805 | Top | E | 6 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C6337 | 2320805 | Top | D | 6 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C6338 | 2320805 | Top | C | 6 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C6339 | 2320778 | Top | D | 1 0 | 0402C | Chipcap X7R 10% 16V 0402 | 10n |
| C6400 | 2320544 | Top | E | 3 | 0402C | Chipcap 5% NP0 | 22p |
| C6401 | 2320560 | Top | D | 9 | 0402C | Chipcap 5% NP0 | 100p |

| Item | Code | Location Side/Grid/Ref | | | Type | Description and Value | |
|-------|---------|---------------------------|---|---|-------|-----------------------------|-----|
| C6403 | 2320778 | Bottom | D | 3 | 0402C | Chipcap X7R 10% 16V 0402 | 10n |
| C6404 | 2320584 | Top | E | 3 | 0402C | Chipcap 5% X7R | 1n0 |
| C6405 | 2320532 | Top | E | 3 | 0402C | Chipcap +-0.25pF NP0 | 6p8 |
| C6406 | 2320538 | Top | E | 4 | 0402C | Chipcap 5% NP0 | 12p |
| C6407 | 2320532 | Top | F | 3 | 0402C | Chipcap +-0.25pF NP0 | 6p8 |
| C6408 | 2320778 | Top | B | 4 | 0402C | Chipcap X7R 10% 16V 0402 | 10n |
| C6409 | 2320778 | Top | B | 3 | 0402C | Chipcap X7R 10% 16V 0402 | 10n |
| C6410 | 2320778 | Top | C | 2 | 0402C | Chipcap X7R 10% 16V 0402 | 10n |
| C6411 | 2320778 | Top | C | 2 | 0402C | Chipcap X7R 10% 16V 0402 | 10n |
| C6412 | 2320778 | Top | C | 4 | 0402C | Chipcap X7R 10% 16V 0402 | 10n |
| C6413 | 2320778 | Top | B | 4 | 0402C | Chipcap X7R 10% 16V 0402 | 10n |
| C6414 | 2320584 | Top | E | 4 | 0402C | Chipcap 5% X7R | 1n0 |
| C6415 | 2320778 | Top | B | 3 | 0402C | Chipcap X7R 10% 16V 0402 | 10n |
| C6416 | 2320778 | Top | B | 3 | 0402C | Chipcap X7R 10% 16V 0402 | 10n |
| C6417 | 2320778 | Top | C | 2 | 0402C | Chipcap X7R 10% 16V 0402 | 10n |
| C6418 | 2320778 | Top | C | 3 | 0402C | Chipcap X7R 10% 16V 0402 | 10n |
| C6419 | 2320778 | Top | C | 4 | 0402C | Chipcap X7R 10% 16V 0402 | 10n |
| C6420 | 2320778 | Top | B | 4 | 0402C | Chipcap X7R 10% 16V 0402 | 10n |
| C6421 | 2320592 | Top | A | 3 | 0402C | Chipcap 5% X7R | 2n2 |
| C6422 | 2320532 | Top | F | 4 | 0402C | Chipcap +-0.25pF NP0 | 6p8 |

| Item | Code | Location Side/Grid/Ref | | | Type | Description and Value | |
|-------|---------|---------------------------|---|---|-------|--------------------------------|------|
| C6423 | 2320516 | Top | D | 3 | 0402C | Chipcap +-0.25pF NP0 | 1p5 |
| C6424 | 2320532 | Top | E | 3 | 0402C | Chipcap +-0.25pF NP0 | 6p8 |
| C6425 | 2320560 | Top | C | 3 | 0402C | Chipcap 5% NP0 | 100p |
| C6427 | 2320516 | Top | D | 3 | 0402C | Chipcap +-0.25pF NP0 | 1p5 |
| C6428 | 2320560 | Top | B | 3 | 0402C | Chipcap 5% NP0 | 100p |
| C6429 | 2320558 | Top | B | 4 | 0402C | Chipcap 5% NP0 | 82p |
| C6430 | 2320805 | Top | B | 3 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C6431 | 2320481 | Top | F | 5 | 0603C | CHIPCAP X5R 1U K 6V3 0603 | 1u0 |
| C6432 | 2310037 | Top | F | 5 | 0805C | CHIPCAP X5R 10U M 6V3 0805 | 10U |
| C6433 | 2320536 | Top | B | 4 | 0402C | Chipcap 5% NP0 | 10p |
| C6434 | 2320584 | Top | B | 4 | 0402C | Chipcap 5% X7R | 1n0 |
| C6435 | 2320532 | Top | E | 5 | 0402C | Chipcap +-0.25pF NP0 | 6p8 |
| C6436 | 2320744 | Top | D | 4 | 0402C | Chipcap X7R 10% 50V 0402 | 1n0 |
| C6437 | 2320536 | Top | F | 5 | 0402C | Chipcap 5% NP0 | 10p |
| C6438 | 2320524 | Top | D | 5 | 0402C | Chipcap +-0.25pF NP0 | 3p3 |
| C6439 | 2320546 | Top | D | 4 | 0402C | Chipcap 5% NP0 | 27p |
| C6440 | 2320538 | Top | D | 4 | 0402C | Chipcap 5% NP0 | 12p |
| C6441 | 2320532 | Top | F | 4 | 0402C | Chipcap +-0.25pF NP0 | 6p8 |
| C6442 | 2321013 | Top | D | 4 | 0402C | CHIPCAP NP0 270P J 25V 0402 | 270p |
| C6443 | 2320546 | Top | D | 3 | 0402C | Chipcap 5% NP0 | 27p |
| C6444 | 2320516 | Top | F | 4 | 0402C | Chipcap +-0.25pF NP0 | 1p5 |

| Item | Code | Location Side/Grid/Ref | | | Type | Description and Value | |
|-------|---------|---------------------------|---|--------|-------|--------------------------------|------|
| C6445 | 2320526 | Top | E | 4 | 0402C | Chipcap +-0.25pF NP0 | 3p9 |
| C6446 | 2320633 | Top | E | 4 | 0402C | CHIPCAP NP0 220P J 25V 0402 | 220p |
| C6447 | 2320584 | Top | B | 4 | 0402C | Chipcap 5% X7R | 1n0 |
| C6448 | 2320805 | Top | D | 5 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C6449 | 2320744 | Bottom | D | 4 | 0402C | Chipcap X7R 10% 50V 0402 | 1n0 |
| C6450 | 2320744 | Bottom | C | 3 | 0402C | Chipcap X7R 10% 50V 0402 | 1n0 |
| C6451 | 2320532 | Top | C | 5 | 0402C | Chipcap +-0.25pF NP0 | 6p8 |
| C6452 | 2320744 | Top | C | 5 | 0402C | Chipcap X7R 10% 50V 0402 | 1n0 |
| C6453 | 2320584 | Top | D | 5 | 0402C | Chipcap 5% X7R | 1n0 |
| C6454 | 2320805 | Bottom | C | 4 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C6455 | 2320556 | Top | C | 4 | 0402C | Chipcap 5% NP0 | 68p |
| C6456 | 2320556 | Top | C | 4 | 0402C | Chipcap 5% NP0 | 68p |
| C7500 | 2320598 | Top | R | 1 0 | 0402C | Chipcap 5% X7R | 3n9 |
| C7501 | 2320744 | Top | P | 9 | 0402C | Chipcap X7R 10% 50V 0402 | 1n0 |
| C7503 | 2320564 | Top | P | 8 | 0402C | Chipcap 5% NP0 | 150p |
| C7504 | 2322023 | Top | P | 8 | 0603C | CHIPCAP NP0 2N2 J 16V 0603 | 2n2 |
| C7505 | 2321013 | Top | Q | 9 | 0402C | CHIPCAP NP0 270P J 25V 0402 | 270p |
| C7506 | 2320805 | Top | R | 7 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C7508 | 2320530 | Top | S | 9 | 0402C | Chipcap +-0.25pF NP0 | 5p6 |
| C7510 | 2320546 | Top | S | 8 | 0402C | Chipcap 5% NP0 | 27p |
| C7511 | 2320560 | Top | U | 2 | 0402C | Chipcap 5% NP0 | 100p |

| Item | Code | Location Side/Grid/Ref | | | Type | Description and Value | |
|-------|---------|---------------------------|---|--------|-------|--------------------------------|------|
| C7512 | 2322023 | Top | T | 9 | 0603C | CHIPCAP NP0 2N2 J 16V 0603 | 2n2 |
| C7513 | 2322023 | Top | T | 8 | 0603C | CHIPCAP NP0 2N2 J 16V 0603 | 2n2 |
| C7520 | 2320554 | Top | R | 9 | 0402C | Chipcap 5% NP0 | 56p |
| C7522 | 2320604 | Top | S | 1 0 | 0402C | Chipcap 5% NP0 | 18p |
| C7531 | 2320546 | Top | X | 4 | 0402C | Chipcap 5% NP0 | 27p |
| C7532 | 2320604 | Top | T | 7 | 0402C | Chipcap 5% NP0 | 18p |
| C7533 | 2320554 | Top | T | 7 | 0402C | Chipcap 5% NP0 | 56p |
| C7535 | 2320552 | Top | Q | 8 | 0402C | Chipcap 5% NP0 | 47p |
| C7536 | 2320552 | Top | Q | 8 | 0402C | Chipcap 5% NP0 | 47p |
| C7537 | 2320560 | Top | Q | 9 | 0402C | Chipcap 5% NP0 | 100p |
| C7538 | 2320744 | Top | Q | 7 | 0402C | Chipcap X7R 10% 50V 0402 | 1n0 |
| C7540 | 2320143 | Top | P | 9 | 0402C | Chipcap X5R 10% 6.3V 0402 | 220n |
| C7543 | 2320558 | Top | R | 7 | 0402C | Chipcap 5% NP0 | 82p |
| C7549 | 2320805 | Top | R | 7 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C7550 | 2320744 | Top | R | 9 | 0402C | Chipcap X7R 10% 50V 0402 | 1n0 |
| C7551 | 2320546 | Top | R | 9 | 0402C | Chipcap 5% NP0 | 27p |
| C7552 | 2320805 | Top | Q | 7 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C7553 | 2320536 | Top | Q | 8 | 0402C | Chipcap 5% NP0 | 10p |
| C7560 | 2320536 | Top | P | 8 | 0402C | Chipcap 5% NP0 | 10p |
| C7568 | 2320514 | Top | R | 9 | 0402C | Chipcap +-0.25pF NP0 | 1p2 |
| C7574 | 2314001 | Top | R | 7 | 0402C | CHIPCAP NP0 470P J 6V3 0402 | 470p |
| C7575 | 2314001 | Top | R | 7 | 0402C | CHIPCAP NP0 470P J 6V3 0402 | 470p |

| Item | Code | Location Side/Grid/Ref | | | Type | Description and Value | |
|-------|---------|---------------------------|---|---|-------------|--------------------------------------|------|
| C7576 | 2314001 | Top | R | 7 | 0402C | CHIPCAP NP0 470P J 6V3 0402 | 470p |
| C7577 | 2314001 | Top | R | 7 | 0402C | CHIPCAP NP0 470P J 6V3 0402 | 470p |
| C7590 | 2320778 | Top | R | 9 | 0402C | Chipcap X7R 10% 16V 0402 | 10n |
| C7700 | 2320584 | Top | T | 4 | 0402C | Chipcap 5% X7R | 1n0 |
| C7701 | 2320584 | Top | X | 5 | 0402C | Chipcap 5% X7R | 1n0 |
| C7702 | 2320584 | Top | T | 3 | 0402C | Chipcap 5% X7R | 1n0 |
| C7703 | 2310045 | Top | W | 6 | 0402C_GRM36 | CHIPCAP X5R 68N K 10V 0402 | 68n |
| C7704 | 2310045 | Top | U | 6 | 0402C_GRM36 | CHIPCAP X5R 68N K 10V 0402 | 68n |
| C7705 | 2320546 | Top | S | 9 | 0402C | Chipcap 5% NP0 | 27p |
| C7706 | 2320546 | Top | S | 8 | 0402C | Chipcap 5% NP0 | 27p |
| C7707 | 2320518 | Top | X | 5 | 0402C | Chipcap +-0.25pF NP0 | 1p8 |
| C7708 | 2320508 | Top | S | 8 | 0402C | Chipcap +-0.25pF NP0 | 1p0 |
| C7709 | 2320540 | Top | U | 6 | 0402C | Chipcap 5% NP0 | 15p |
| C7710 | 2320540 | Top | U | 6 | 0402C | Chipcap 5% NP0 | 15p |
| C7711 | 2320514 | Top | T | 5 | 0402C | Chipcap +-0.25pF NP0 | 1p2 |
| C7713 | 2320584 | Top | W | 6 | 0402C | Chipcap 5% X7R | 1n0 |
| C7714 | 2320584 | Top | U | 6 | 0402C | Chipcap 5% X7R | 1n0 |
| C7718 | 2320584 | Top | X | 4 | 0402C | Chipcap 5% X7R | 1n0 |
| C7719 | 2320584 | Top | V | 6 | 0402C | Chipcap 5% X7R | 1n0 |
| C7723 | 2320540 | Top | T | 4 | 0402C | Chipcap 5% NP0 | 15p |
| C7724 | 2320778 | Top | X | 3 | 0402C | Chipcap X7R 10% 16V 0402 | 10n |
| C7725 | 2312201 | Top | W | 3 | 0805C_H0.95 | CHIPCAP X5R 4U7 K 6V3 T=0.95 0805 | 4u7 |
| C7726 | 2320546 | Bottom | X | 3 | 0402C | Chipcap 5% NP0 | 27p |

| Item | Code | Location Side/Grid/Ref | | | Type | Description and Value | |
|-------|---------|---------------------------|---|---|------------------------------------|--|----------|
| C7728 | 2320560 | Top | V | 6 | 0402C | Chipcap 5% NP0 | 100p |
| C7729 | 2320554 | Top | V | 3 | 0402C | Chipcap 5% NP0 | 56p |
| C7730 | 2611731 | Bottom | X | 4 | TANT_TAJY | CHIPTCAP 100U M 16V 7.3X4.3X2.0 | 100u_16V |
| C7804 | 2320560 | Top | X | 1 | 0402C | Chipcap 5% NP0 | 100p |
| C7805 | 2320560 | Top | X | 2 | 0402C | Chipcap 5% NP0 | 100p |
| C7807 | 2320560 | Top | U | 1 | 0402C | Chipcap 5% NP0 | 100p |
| C7808 | 2320560 | Top | U | 1 | 0402C | Chipcap 5% NP0 | 100p |
| C7826 | 2320530 | Top | U | 3 | 0402C | Chipcap +-0.25pF NP0 | 5p6 |
| C7827 | 2320805 | Top | T | 3 | 0402C | CHIPCAP X5R 100N K 10V 0402 | 100n |
| C7828 | 2320540 | Top | T | 3 | 0402C | Chipcap 5% NP0 | 15p |
| C7829 | 2320514 | Top | T | 2 | 0402C | Chipcap +-0.25pF NP0 | 1p2 |
| C7831 | 2320552 | Top | X | 2 | 0402C | Chipcap 5% NP0 | 47p |
| C7835 | 2320544 | Top | X | 2 | 0402C | Chipcap 5% NP0 | 22p |
| D2200 | 4377029 | Top | Q | 3 | uBGA168 | UEMK_EDGE LF WDENA TO25 TFBGA168 | ~ |
| D2800 | 4371105 | Top | N | 2 | PBGA_N173 | UPP8M V3.5 LF C035 173GPH | ~ |
| D3000 | 4341575 | Top | N | 5 | PBFREEBGA40_3 2MB_54MHZ_MA X | FLASH NMP DCT4 32MBIT 54MHZ PBFREE | 2Mx16 |
| D4220 | 4349823 | Top | G | 9 | PDSO_G5 | OR-GATE 2INPUT 74LVC1G32 SC70-5 | ~ |
| D4800 | 4371703 | Top | K | 6 | uBGA_289 | HELEN V1 OMAP1510GZZG2R 289U*BGA | ~ |
| D5000 | 4347077 | Top | K | 4 | TFBGA115 | MDOC 1GB 2.7-3.6V PBFREE TFBGA115 | 1GB |
| D5080 | 4347183 | Top | I | 6 | FBGA_54_11.6X1 0.1 | SDRAM 32MX16 1.8/ 1.8V FBGA54 PBFREE | 32Mx16 |

| Item | Code | Location Side/Grid/Ref | | | Type | Description and Value | |
|-------|---------|---------------------------|---|---|---------------|---|--------------------|
| D6300 | 4377023 | Top | E | 7 | PBGA_N179 | MAC/BBP TNETWL1100B LF SPBGAN179 | ~ |
| D6310 | 4349853 | Top | C | 8 | TSSOP8 | EEPROM 1024X8 1.8V TSSOP8 | 1024x8 |
| F2020 | 5119029 | Bottom | A | 9 | 0603_FUSE_FIX | SM FUSE F 1.5A 32V ROHS-FREE 0603 | 1.5A |
| G2400 | 4700141 | Bottom | W | 2 | BATTER_RB414H | CELL CAPACITOR 0.01MAH 3V3 | 3V3 |
| G6400 | 4530021 | Top | B | 5 | NKG3158A | CRYSTAL NKG3169B 22MHZ +-25PPM 20PF | 22MHz |
| G7500 | 4350431 | Top | P | 8 | VCO_FDK_IT_4 | VCO 3296-3980MHZ FOUR 2.7V 20MA | 3296- 3980MHz |
| G7501 | 4510417 | Top | Q | 9 | NGK3138C | VCTCXO 26MHZ +- 3PPM 2.7v 1.3MA GSM | 26MHz |
| L2000 | 3203755 | Bottom | C | 5 | FERRITE_0402 | FERRITE BEAD 0.6R 600R/100MHZ 0402 | 600R/ 100MHz |
| L2001 | 3203755 | Bottom | C | 5 | FERRITE_0402 | FERRITE BEAD 0.6R 600R/100MHZ 0402 | 600R/ 100MHz |
| L2002 | 3203755 | Bottom | C | 5 | FERRITE_0402 | FERRITE BEAD 0.6R 600R/100MHZ 0402 | 600R/ 100MHz |
| L2003 | 3203801 | Bottom | B | 4 | 0405_2_MATSU | CHIP BEAD ARRAY 2X1000R 0405 | 2x1000R/ 100MHz |
| L2004 | 3203801 | Bottom | B | 4 | 0405_2_MATSU | CHIP BEAD ARRAY 2X1000R 0405 | 2x1000R/ 100MHz |
| L2005 | 3203801 | Bottom | B | 3 | 0405_2_MATSU | CHIP BEAD ARRAY 2X1000R 0405 | 2x1000R/ 100MHz |
| L2020 | 3203743 | Bottom | A | 9 | 0805_BLM21 | FERR.BEAD 0R03 42R/100MHZ 3A 0805 | 42R/ 100MHz |
| L2120 | 3645379 | Bottom | X | 6 | COIL_0603CS | CHIP COIL 27N G Q40/250MHZ 0603 | 27nH |
| L2121 | 3645379 | Bottom | X | 6 | COIL_0603CS | CHIP COIL 27N G Q40/250MHZ 0603 | 27nH |

| Item | Code | Location Side/Grid/Ref | | | Type | Description and Value | |
|-------|---------|---------------------------|---|--------|------------------------|---------------------------------------|--------------------|
| L2330 | 3203741 | Top | R | 5 | 0603_BLM | FERRITE BEAD 0R5 600R/100MHZ 0603 | 600R/ 100MHz |
| L2331 | 3203741 | Top | S | 4 | 0603_BLM | FERRITE BEAD 0R5 600R/100MHZ 0603 | 600R/ 100MHz |
| L2332 | 3203741 | Top | S | 5 | 0603_BLM | FERRITE BEAD 0R5 600R/100MHZ 0603 | 600R/ 100MHz |
| L2333 | 3203741 | Top | S | 5 | 0603_BLM | FERRITE BEAD 0R5 600R/100MHZ 0603 | 600R/ 100MHz |
| L2334 | 3203741 | Top | S | 5 | 0603_BLM | FERRITE BEAD 0R5 600R/100MHZ 0603 | 600R/ 100MHz |
| L2335 | 3203741 | Top | P | 2 | 0603_BLM | FERRITE BEAD 0R5 600R/100MHZ 0603 | 600R/ 100MHz |
| L4100 | 3203755 | Top | K | 2 | FERRITE_0402 | FERRITE BEAD 0.6R 600R/100MHZ 0402 | 600R/ 100MHz |
| L4201 | 3640151 | Top | H | 3 | CHOKE_ELL4LM1 00MN2 | CHOKE 10U M 0.6A 0R18 4X4X1.8 | 10uH |
| L4202 | 3640151 | Top | E | 9 | CHOKE_ELL4LM1 00MN2 | CHOKE 10U M 0.6A 0R18 4X4X1.8 | 10uH |
| L4203 | 3203741 | Top | I | 3 | 0603_BLM | FERRITE BEAD 0R5 600R/100MHZ 0603 | 600R/ 100MHz |
| L4204 | 3203741 | Top | G | 9 | 0603_BLM | FERRITE BEAD 0R5 600R/100MHZ 0603 | 600R/ 100MHz |
| L4400 | 3203801 | Top | M | 1 0 | 0405_2_MATSU | CHIP BEAD ARRAY 2X1000R 0405 | 2x1000R/ 100MHz |
| L6030 | 3646063 | Bottom | F | 3 | 0402L | CHIP COIL 22N J Q28/800M 0402 | 22nH |
| L6031 | 3646047 | Bottom | E | 3 | 0402L | CHIP COIL 3N3 +- 0N3 Q28/800M 0402 | 3n3H |
| L6032 | 3646047 | Bottom | E | 3 | 0402L | CHIP COIL 3N3 +- 0N3 Q28/800M 0402 | 3n3H |
| L6033 | 3646063 | Bottom | E | 2 | 0402L | CHIP COIL 22N J Q28/800M 0402 | 22nH |
| L6300 | 3203755 | Top | B | 7 | FERRITE_0402 | FERRITE BEAD 0.6R 600R/100MHZ 0402 | 600R/ 100MHz |
| L6301 | 3203755 | Top | H | 2 | FERRITE_0402 | FERRITE BEAD 0.6R 600R/100MHZ 0402 | 600R/ 100MHz |

| Item | Code | Location Side/Grid/Ref | | | Type | Description and Value | |
|-------|---------|---------------------------|---|--------|---------------|---|-----------------|
| L6302 | 3203741 | Top | E | 1 0 | 0603_BLM | FERRITE BEAD 0R5 600R/100MHZ 0603 | 600R/ 100MHz |
| L6400 | 3646059 | Top | C | 3 | 0402L | CHIP COIL 5N6 +- 0N3 Q28/800M 0402 | 5n6H |
| L6401 | 3646423 | Top | F | 5 | 0402L_POL2 | CHIP COIL 12N J Q30/250MHZ 0402 | 12nH |
| L6402 | 3646055 | Top | C | 3 | 0402L | CHIP COIL 8N2 J Q28/800MHZ 0402 | 8n2H |
| L6403 | 3646107 | Top | D | 4 | FERRITE_LQP10 | CHIP COIL 1N5 +- 0N1 Q45/1GHZ 0402 | 1n5H |
| L6404 | 3646009 | Top | E | 4 | 0402L | CHIP COIL 10N J Q30/800M 0402 | 10nH |
| L6405 | 3203741 | Top | C | 5 | 0603_BLM | FERRITE BEAD 0R5 600R/100MHZ 0603 | 600R/ 100MHz |
| L7500 | 3646053 | Top | R | 9 | 0402L | CHIP COIL 4N7 +- 0N3 Q28/800M 0402 | 4n7H |
| L7501 | 3646053 | Top | S | 9 | 0402L | CHIP COIL 4N7 +- 0N3 Q28/800M 0402 | 4n7H |
| L7529 | 3203755 | Top | R | 9 | FERRITE_0402 | FERRITE BEAD 0.6R 600R/100MHZ 0402 | 600R/ 100MHz |
| L7701 | 3646063 | Top | X | 5 | 0402L | CHIP COIL 22N J Q28/800M 0402 | 22nH |
| L7702 | 3646003 | Top | T | 5 | 0402L | CHIP COIL 2N2+- 0N3 Q30/800M 0402 | 2n2H |
| L7703 | 3203743 | Top | X | 3 | 0805_BLM21 | FERR.BEAD 0R03 42R/100MHZ 3A 0805 | 42R/ 100MHz |
| L7800 | 3646047 | Top | T | 2 | 0402L | CHIP COIL 3N3 +- 0N3 Q28/800M 0402 | 3n3H |
| L7805 | 3646059 | Top | S | 8 | 0402L | CHIP COIL 5N6 +- 0N3 Q28/800M 0402 | 5n6H |
| L7809 | 3646067 | Top | R | 7 | 0402L | CHIP COIL 18N J Q29/800M 0402 | 18nH |
| L7810 | 3646067 | Top | S | 7 | 0402L | CHIP COIL 18N J Q29/800M 0402 | 18nH |
| L7822 | 3646047 | Top | S | 7 | 0402L | CHIP COIL 3N3 +- 0N3 Q28/800M 0402 | 3n3H |

| Item | Code | Location Side/Grid/Ref | | | Type | Description and Value | |
|-------|---------|---------------------------|---|--------|-----------------------------|---|--|
| L7823 | 3646047 | Top | S | 7 | 0402L | CHIP COIL 3N3 +- 0N3 Q28/800M 0402 | 3n3H |
| L7824 | 3646053 | Top | U | 3 | 0402L | CHIP COIL 4N7 +- 0N3 Q28/800M 0402 | 4n7H |
| L7830 | 3646223 | Top | U | 2 | 0402_ELJRF | CHIP COIL 5N6+- 0N3 Q7/100M 0402 | 5n6H |
| N2000 | 4341703 | Top | N | 1 | USMD5_1.47X1.0 4_H0.675 | VREG LP3985ITLX- 2.8 NOPB USMD5 | ~ |
| N2001 | 4340663 | Top | B | 6 | SOT23_5_H1.45 | REG 3.3V/150MA LP2985A-3.3 SOT23- 5 | ~ |
| N2070 | 4341705 | Bottom | W | 3 | USMD10_2.08X1. 57_H0.675 | CURRENT SENS LM3820 USMD10 PB-FREE | ~ |
| N2100 | 4341617 | Top | J | 2 | USMD18_ST_NS C | AF AMP LM4855ITLX NOPB USMD18 | ~ |
| N4100 | 434B271 | Top | K | 2 | PBGA_N80_MIRR OR | | STE. CODEC W/AF AMP TLV230AI C23B |
| N4200 | 4342341 | Bottom | E | 1 0 | LLP_6 | REG LP3981YDX 2.8/NOPB 0.3A LLP- 6 | ~ |
| N4201 | 4346045 | Top | I | 3 | USMD_10_2.458X 1.899 | DC-DC CONV LM2708HTLX-1.57V/ 1.35V USMD10 | ~ |
| N4202 | 4346049 | Top | G | 9 | USMD_10_2.458X 1.899 | DC_DC CONV LM2708H-1.82V/ 1.57V | ~ |
| N4400 | 4341087 | Bottom | G | 9 | TSOP_6_H1.1 | HALL IC SWITCH TLE4917 TSSOP6 | ~ |
| N4490 | 4865403 | Top | A | 8 | IRDA_RPM960 | IRDA 1.15MBPS 2.2MM ROHS | ~ |
| N4800 | 4341781 | Top | O | 5 | SOT23_6_H1.45 | VOLTAGE SUPERVI- SOR TPS3103E12DBVR | ~ |

| Item | Code | Location Side/Grid/Ref | | | Type | Description and Value | |
|-------|---------|---------------------------|---|---|----------------------------|---|------|
| N5200 | 4341715 | Bottom | G | 6 | USMD5_1.47X1.0 4_H0.675 | VREG LP3985ITLX- 3.0 NOPB USMD5 | ~ |
| N6030 | 4370975 | Bottom | E | 3 | TFBGA84_H1.2 | BC213143A-17-RK- E4 | ~ |
| N6300 | 4341063 | Top | C | 6 | SOT23_5_H1.2 | REG 2.8V/150MA LP3985 SOT23-5 | ~ |
| N6301 | 4341063 | Top | H | 2 | SOT23_5_H1.2 | REG 2.8V/150MA LP3985 SOT23-5 | ~ |
| N6302 | 4341775 | Top | C | 9 | SOT23_5_H1.2 | REG LP2985IM5X 1.8V 150MA NOPB | ~ |
| N6303 | 4341063 | Top | F | 8 | SOT23_5_H1.2 | REG 2.8V/150MA LP3985 SOT23-5 | ~ |
| N6400 | 4349941 | Top | C | 3 | QFN48_THIN | ZERO-IF TRANS- CEIVER MAX2821 QFN48 | ~ |
| N6401 | 434B019 | Top | E | 5 | LCC_16 | RFMD RF5117 PA FOR 2.4GHZ WLAN US | ~ |
| N6402 | 4346035 | Bottom | C | 4 | SOT23_6_H1.4 | OPAMP TLV2460 2.7-6V SOT23-6 | ~ |
| N6403 | 4341661 | Top | E | 3 | SOT_363DOT | SWITCH SPDT UPG2015TB SOT363 | ~ |
| N6404 | 4341661 | Top | F | 4 | SOT_363DOT | SWITCH SPDT UPG2015TB SOT363 | ~ |
| N6405 | 4219935 | Top | D | 5 | UM6_ROHM_H1.1 | TRZ2+4X10K PUMD3 N&P 50V SOT363 | ~ |
| N7500 | 4380053 | Top | R | 8 | TFBGA88 | HELGO86G TFBGA88 | ~ |
| N7700 | 4350427 | Top | V | 4 | PW_AMP_RF9219 E1_H1.8 | PW AMP PF09003BN 900/ 1800/1900MHZ | ~ |
| R2000 | 1430778 | Top | N | 1 | 0402R | Resistor 5% 63mW | 10k |
| R2001 | 1430804 | Bottom | C | 6 | 0402R | Resistor 5% 63mW | 100k |
| R2002 | 1430718 | Bottom | C | 6 | 0402R | Resistor 5% 63mW | 47R |

| Item | Code | Location Side/Grid/Ref | | | Type | Description and Value | |
|-------|---------|---------------------------|---|---|---------------|-----------------------------------|-----------|
| R2003 | 4129001 | Bottom | C | 5 | uBGA8_1.3X2.0 | ASIP EMIF02-USB01F2 **PB-FREE** | ~ |
| R2004 | 1430804 | Top | A | 6 | 0402R | Resistor 5% 63mW | 100k |
| R2005 | 1825031 | Bottom | B | 4 | 0405_2 | VARISTOR ARRAY 2XVWM16V VC50 0405 | 2XVWM16 V |
| R2007 | 4129011 | Bottom | B | 4 | uBGA5 | ASIP 4XESD **PB-FREE** BGA5 | ~ |
| R2008 | 1430812 | Top | S | 3 | 0402R | Resistor 5% 63mW | 220k |
| R2021 | 1820039 | Top | M | 4 | 0402_NTH5 | NTC RES 47K J B=4050+-3% 0402 | 47k |
| R2025 | 1825133 | Bottom | W | 5 | 0402_VAR | CHIP VARISTOR VWM14V VC50V 0402 | 14V/50V |
| R2028 | 1430700 | Bottom | C | 4 | 0402R | Resistor 5% 63mW | 10R |
| R2029 | 1430700 | Bottom | C | 4 | 0402R | Resistor 5% 63mW | 10R |
| R2030 | 1430700 | Bottom | C | 3 | 0402R | Resistor 5% 63mW | 10R |
| R2031 | 1430700 | Bottom | B | 3 | 0402R | Resistor 5% 63mW | 10R |
| R2035 | 1825133 | Bottom | W | 5 | 0402_VAR | CHIP VARISTOR VWM14V VC50V 0402 | 14V/50V |
| R2044 | 1825133 | Bottom | C | 6 | 0402_VAR | CHIP VARISTOR VWM14V VC50V 0402 | 14V/50V |
| R2071 | 1430762 | Bottom | W | 3 | 0402R | Resistor 5% 63mW | 2k2 |
| R2072 | 1430762 | Bottom | W | 3 | 0402R | Resistor 5% 63mW | 2k2 |
| R2102 | 1825031 | Bottom | X | 5 | 0405_2 | VARISTOR ARRAY 2XVWM16V VC50 0405 | 2XVWM16 V |
| R2104 | 1430764 | Top | J | 2 | 0402R | Resistor 5% 63mW | 3k3 |
| R2105 | 1430726 | Top | J | 2 | 0402R | Resistor 5% 63mW | 100R |
| R2106 | 1430778 | Top | J | 1 | 0402R | Resistor 5% 63mW | 10k |
| R2107 | 1430770 | Top | J | 1 | 0402R | Resistor 5% 63mW | 4k7 |
| R2108 | 1430778 | Top | J | 1 | 0402R | Resistor 5% 63mW | 10k |

| Item | Code | Location Side/Grid/Ref | | | Type | Description and Value | |
|-------|---------|---------------------------|---|---|--------------|---|--------------|
| R2109 | 1430770 | Top | J | 1 | 0402R | Resistor 5% 63mW | 4k7 |
| R2120 | 1620103 | Top | R | 2 | 0404_R_SR | Chipres Array 0W06 J 0404 | 2x22R |
| R2121 | 1620031 | Top | R | 1 | 0404_R_SR | RES NETWORK 0W06 2X1K0 J 0404 | 2x1k0 |
| R2122 | 1430744 | Top | R | 2 | 0402R | Resistor 5% 63mW | 470R |
| R2123 | 1620105 | Top | R | 2 | MNR02_SR | RES NETWORK 0W06 2X2K2 J 0404 | 2x2k2 |
| R2124 | 1825031 | Bottom | B | 6 | 0405_2 | VARISTOR ARRAY 2XVWM16V VC50 0405 | 2XVWM16 V |
| R2125 | 1430778 | Top | R | 1 | 0402R | Resistor 5% 63mW | 10k |
| R2126 | 1430734 | Top | Q | 2 | 0402R | Resistor 5% 63mW | 220R |
| R2127 | 1620031 | Top | Q | 1 | 0404_R_SR | RES NETWORK 0W06 2X1K0 J 0404 | 2x1k0 |
| R2128 | 1620105 | Top | Q | 1 | MNR02_SR | RES NETWORK 0W06 2X2K2 J 0404 | 2x2k2 |
| R2129 | 1430762 | Top | R | 2 | 0402R | Resistor 5% 63mW | 2k2 |
| R2130 | 1430762 | Top | Q | 2 | 0402R | Resistor 5% 63mW | 2k2 |
| R2200 | 1414605 | Top | S | 3 | 0805R_THERM1 | CHIPRES 0W25 0R22 J 0805 | 0R22 |
| R2201 | 1430804 | Top | P | 2 | 0402R | Resistor 5% 63mW | 100k |
| R2202 | 1430770 | Top | P | 2 | 0402R | Resistor 5% 63mW | 4k7 |
| R2203 | 1430770 | Top | P | 2 | 0402R | Resistor 5% 63mW | 4k7 |
| R2204 | 1430804 | Top | P | 2 | 0402R | Resistor 5% 63mW | 100k |
| R2205 | 1430804 | Top | P | 2 | 0402R | Resistor 5% 63mW | 100k |
| R2206 | 1430804 | Top | O | 1 | 0402R | Resistor 5% 63mW | 100k |
| R2700 | 4129071 | Bottom | E | 7 | uBGA8 | ASIP EMIF03- SIM01F2 **PB- FREE** | ~ |
| R2701 | 1430778 | Bottom | D | 8 | 0402R | Resistor 5% 63mW | 10k |
| R2900 | 1430778 | Top | P | 5 | 0402R | Resistor 5% 63mW | 10k |
| R2901 | 1430778 | Top | P | 5 | 0402R | Resistor 5% 63mW | 10k |

| Item | Code | Location Side/Grid/Ref | | | Type | Description and Value | |
|-------|---------|---------------------------|---|--------|---------------|---|--------------|
| R2902 | 1430726 | Top | O | 4 | 0402R | Resistor 5% 63mW | 100R |
| R2903 | 1430873 | Top | P | 4 | 0402R | CHIPRES 0W06 27K F 0402 | 27k |
| R3000 | 1430770 | Top | O | 4 | 0402R | Resistor 5% 63mW | 4k7 |
| R4100 | 1430794 | Top | L | 1 | 0402R | Resistor 5% 63mW | 39k |
| R4101 | 1430718 | Top | L | 2 | 0402R | Resistor 5% 63mW | 47R |
| R4202 | 1430812 | Bottom | F | 9 | 0402R | Resistor 5% 63mW | 220k |
| R4400 | 1430804 | Top | M | 8 | 0402R | Resistor 5% 63mW | 100k |
| R4401 | 1430740 | Top | H | 7 | 0402R | Resistor 5% 63mW | 330R |
| R4409 | 1430778 | Top | U | 7 | 0402R | Resistor 5% 63mW | 10k |
| R4410 | 4129061 | Top | N | 8 | FC6_1.65X1.15 | ASIP 2-CH MIC EMI/ ESD **PB-FREE** | ~ |
| R4412 | 1430786 | Top | U | 7 | 0402R | Resistor 5% 63mW | 18k |
| R4413 | 4129011 | Top | I | 1 0 | uBGA5 | ASIP 4XESD **PB- FREE** BGA5 | ~ |
| R4415 | 1430760 | Top | N | 7 | 0402R | Resistor 5% 63mW | 1k8 |
| R4416 | 1825031 | Top | M | 1 0 | 0405_2 | VARISTOR ARRAY 2XVWM16V VC50 0405 | 2XVWM16 V |
| R4417 | 1430681 | Top | U | 7 | 0402R | CHIPRES 0W06 4R3 J 0402 | 4R3 |
| R4418 | 1430760 | Top | N | 7 | 0402R | Resistor 5% 63mW | 1k8 |
| R4419 | 1430804 | Top | M | 1 0 | 0402R | Resistor 5% 63mW | 100k |
| R4420 | 1430804 | Top | M | 1 0 | 0402R | Resistor 5% 63mW | 100k |
| R4422 | 1430804 | Bottom | G | 8 | 0402R | Resistor 5% 63mW | 100k |
| R4423 | 1430691 | Top | U | 1 0 | 0402R | CHIPRES 0W06 2R2 J 0402 | 2R2 |
| R4424 | 1430804 | Top | K | 8 | 0402R | Resistor 5% 63mW | 100k |
| R4425 | 1430804 | Top | K | 8 | 0402R | Resistor 5% 63mW | 100k |
| R4426 | 1430804 | Top | J | 8 | 0402R | Resistor 5% 63mW | 100k |
| R4427 | 1430778 | Top | L | 8 | 0402R | Resistor 5% 63mW | 10k |

| Item | Code | Location Side/Grid/Ref | | | Type | Description and Value | |
|-------|---------|---------------------------|---|---|----------------------|--|-------|
| R4428 | 1430804 | Top | K | 8 | 0402R | Resistor 5% 63mW | 100k |
| R4429 | 1430804 | Top | K | 8 | 0402R | Resistor 5% 63mW | 100k |
| R4430 | 1430726 | Top | V | 9 | 0402R | Resistor 5% 63mW | 100R |
| R4431 | 1430726 | Top | V | 9 | 0402R | Resistor 5% 63mW | 100R |
| R4432 | 1430726 | Top | U | 9 | 0402R | Resistor 5% 63mW | 100R |
| R4433 | 1430726 | Top | U | 9 | 0402R | Resistor 5% 63mW | 100R |
| R4434 | 1430726 | Top | V | 9 | 0402R | Resistor 5% 63mW | 100R |
| R4435 | 1430726 | Top | V | 8 | 0402R | Resistor 5% 63mW | 100R |
| R4436 | 1430726 | Top | V | 8 | 0402R | Resistor 5% 63mW | 100R |
| R4437 | 1430726 | Top | V | 8 | 0402R | Resistor 5% 63mW | 100R |
| R4438 | 1430726 | Top | V | 8 | 0402R | Resistor 5% 63mW | 100R |
| R4439 | 1430726 | Top | U | 7 | 0402R | Resistor 5% 63mW | 100R |
| R4440 | 1430726 | Top | U | 7 | 0402R | Resistor 5% 63mW | 100R |
| R4490 | 1413850 | Top | B | 8 | 0805R | CHIPRES 0W125 4R7 J 0805 | 4R7 |
| R4800 | 1620105 | Top | N | 8 | MNR02 | RES NETWORK 0W06 2X2k2 J 0404 | 2x2k2 |
| R4801 | 1430778 | Top | K | 5 | 0402R | Resistor 5% 63mW | 10k |
| R4802 | 1430804 | Top | M | 7 | 0402R | Resistor 5% 63mW | 100k |
| R4803 | 1430804 | Top | M | 7 | 0402R | Resistor 5% 63mW | 100k |
| R4804 | 1430804 | Top | K | 8 | 0402R | Resistor 5% 63mW | 100k |
| R4805 | 1430804 | Top | L | 4 | 0402R | Resistor 5% 63mW | 100k |
| R4806 | 1430700 | Top | M | 7 | 0402R | Resistor 5% 63mW | 10R |
| R4807 | 1430706 | Top | M | 6 | 0402R | Resistor 5% 63mW | 15R |
| R4808 | 1430710 | Top | J | 6 | 0402R | Resistor 5% 63mW | 22R |
| R5000 | 1430778 | Top | J | 3 | 0402R | Resistor 5% 63mW | 10k |
| R5001 | 1430778 | Top | J | 3 | 0402R | Resistor 5% 63mW | 10k |
| R5200 | 4129101 | Bottom | F | 7 | uBGA11_1.62X2.1 2 | ASIP EMIF04- MMC02F2**PB- FREE** | ~ |
| R5201 | 1430788 | Bottom | F | 7 | 0402R | Resistor 5% 63mW | 22k |

| Item | Code | Location Side/Grid/Ref | | | Type | Description and Value | |
|-------|---------|---------------------------|---|---|-------|----------------------------|------|
| R5202 | 1430804 | Bottom | G | 6 | 0402R | Resistor 5% 63mW | 100k |
| R6030 | 1430778 | Bottom | F | 4 | 0402R | Resistor 5% 63mW | 10k |
| R6034 | 1430691 | Bottom | D | 3 | 0402R | CHIPRES 0W06 2R2 J 0402 | 2R2 |
| R6039 | 1430873 | Top | M | 7 | 0402R | CHIPRES 0W06 27K F 0402 | 27k |
| R6040 | 1430740 | Top | M | 8 | 0402R | Resistor 5% 63mW | 330R |
| R6042 | 1430873 | Top | M | 7 | 0402R | CHIPRES 0W06 27K F 0402 | 27k |
| R6043 | 1430748 | Top | N | 7 | 0402R | Resistor 5% 63mW | 680R |
| R6044 | 1430760 | Top | M | 7 | 0402R | Resistor 5% 63mW | 1k8 |
| R6302 | 1430754 | Top | C | 9 | 0402R | Resistor 5% 63mW | 1k0 |
| R6303 | 1430804 | Top | E | 6 | 0402R | Resistor 5% 63mW | 100k |
| R6305 | 1430760 | Top | C | 8 | 0402R | Resistor 5% 63mW | 1k8 |
| R6309 | 1430770 | Top | C | 7 | 0402R | Resistor 5% 63mW | 4k7 |
| R6310 | 1430770 | Top | C | 6 | 0402R | Resistor 5% 63mW | 4k7 |
| R6313 | 1430804 | Top | C | 7 | 0402R | Resistor 5% 63mW | 100k |
| R6314 | 1430804 | Top | C | 6 | 0402R | Resistor 5% 63mW | 100k |
| R6315 | 1430804 | Top | D | 6 | 0402R | Resistor 5% 63mW | 100k |
| R6316 | 1430804 | Top | C | 6 | 0402R | Resistor 5% 63mW | 100k |
| R6317 | 1430804 | Top | D | 6 | 0402R | Resistor 5% 63mW | 100k |
| R6318 | 1430804 | Top | D | 6 | 0402R | Resistor 5% 63mW | 100k |
| R6319 | 1430804 | Top | D | 6 | 0402R | Resistor 5% 63mW | 100k |
| R6320 | 1430804 | Top | C | 6 | 0402R | Resistor 5% 63mW | 100k |
| R6321 | 1430804 | Top | C | 6 | 0402R | Resistor 5% 63mW | 100k |
| R6323 | 1430770 | Top | D | 9 | 0402R | Resistor 5% 63mW | 4k7 |
| R6324 | 1430772 | Top | D | 9 | 0402R | Resistor 5% 63mW | 5k6 |
| R6326 | 1430804 | Top | D | 9 | 0402R | Resistor 5% 63mW | 100k |
| R6327 | 1430804 | Top | G | 8 | 0402R | Resistor 5% 63mW | 100k |
| R6330 | 1430754 | Top | D | 2 | 0402R | Resistor 5% 63mW | 1k0 |
| R6331 | 1430804 | Top | A | 5 | 0402R | Resistor 5% 63mW | 100k |

| Item | Code | Location Side/Grid/Ref | | | Type | Description and Value | |
|-------|---------|---------------------------|---|--------|-------|---------------------------------------|------|
| R6332 | 1430778 | Top | C | 1 0 | 0402R | Resistor 5% 63mW | 10k |
| R6400 | 1430786 | Bottom | C | 3 | 0402R | Resistor 5% 63mW | 18k |
| R6401 | 1430726 | Top | E | 3 | 0402R | Resistor 5% 63mW | 100R |
| R6402 | 1430754 | Top | E | 3 | 0402R | Resistor 5% 63mW | 1k0 |
| R6403 | 1430778 | Top | E | 3 | 0402R | Resistor 5% 63mW | 10k |
| R6404 | 1430726 | Top | F | 4 | 0402R | Resistor 5% 63mW | 100R |
| R6405 | 1430754 | Top | F | 3 | 0402R | Resistor 5% 63mW | 1k0 |
| R6406 | 1430778 | Top | F | 3 | 0402R | Resistor 5% 63mW | 10k |
| R6407 | 1430772 | Top | D | 2 | 0402R | Resistor 5% 63mW | 5k6 |
| R6408 | 1430762 | Top | C | 2 | 0402R | Resistor 5% 63mW | 2k2 |
| R6409 | 1430760 | Top | A | 3 | 0402R | Resistor 5% 63mW | 1k8 |
| R6410 | 1430762 | Top | A | 4 | 0402R | Resistor 5% 63mW | 2k2 |
| R6411 | 1430832 | Top | C | 4 | 0402R | Resistor 5% 63mW | 2k7 |
| R6412 | 1430760 | Top | D | 4 | 0402R | Resistor 5% 63mW | 1k8 |
| R6413 | 1430752 | Top | D | 4 | 0402R | Resistor 5% 63mW | 820R |
| R6414 | 1430752 | Top | E | 4 | 0402R | Resistor 5% 63mW | 820R |
| R6415 | 1430848 | Top | D | 3 | 0402R | Resistor 1% 63mW | 12k |
| R6416 | 1430728 | Top | C | 4 | 0402R | Resistor 5% 63mW | 120R |
| R6417 | 1430728 | Top | C | 4 | 0402R | Resistor 5% 63mW | 120R |
| R6418 | 1430728 | Top | C | 4 | 0402R | Resistor 5% 63mW | 120R |
| R6419 | 1430728 | Top | C | 4 | 0402R | Resistor 5% 63mW | 120R |
| R6420 | 1430746 | Top | C | 5 | 0402R | Resistor 5% 63mW | 560R |
| R6421 | 1430746 | Top | C | 5 | 0402R | Resistor 5% 63mW | 560R |
| R6422 | 1430762 | Top | B | 4 | 0402R | Resistor 5% 63mW | 2k2 |
| R6423 | 1430855 | Bottom | D | 4 | 0402R | CHIPRES 0W06 300K F 200PPM 0402 | 300k |
| R6424 | 1430855 | Bottom | C | 3 | 0402R | CHIPRES 0W06 300K F 200PPM 0402 | 300k |

| Item | Code | Location Side/Grid/Ref | | | Type | Description and Value | |
|-------|---------|---------------------------|---|---|------------|---------------------------------------|------------------------|
| R6425 | 1430855 | Bottom | C | 3 | 0402R | CHIPRES 0W06 300K F 200PPM 0402 | 300k |
| R6426 | 1430754 | Top | D | 5 | 0402R | Resistor 5% 63mW | 1k0 |
| R6427 | 1430742 | Top | B | 4 | 0402R | Resistor 5% 63mW | 390R |
| R6428 | 1430855 | Top | D | 5 | 0402R | CHIPRES 0W06 300K F 200PPM 0402 | 300k |
| R6429 | 1430855 | Bottom | D | 4 | 0402R | CHIPRES 0W06 300K F 200PPM 0402 | 300k |
| R7500 | 1430693 | Top | O | 8 | 0402R | Chipres 0W06 5R6 J 0402 | 5R6 |
| R7501 | 1430754 | Top | P | 8 | 0402R | Resistor 5% 63mW | 1k0 |
| R7502 | 1430337 | Top | P | 9 | 0603R | CHIPRES 0W06 9K1 F 0603 | 9k1 |
| R7503 | 1430770 | Top | T | 9 | 0402R | Resistor 5% 63mW | 4k7 |
| R7504 | 1430780 | Top | S | 8 | 0402R | Resistor 5% 63mW | 12k |
| R7505 | 1430770 | Top | S | 9 | 0402R | Resistor 5% 63mW | 4k7 |
| R7507 | 1430726 | Top | T | 9 | 0402R | Resistor 5% 63mW | 100R |
| R7516 | 1620033 | Top | Q | 8 | 0404_R | RES NETWORK 0W06 2X5K6 J 0404 | 2x5k6 |
| R7517 | 1620033 | Top | Q | 8 | 0404_R | RES NETWORK 0W06 2X5K6 J 0404 | 2x5k6 |
| R7520 | 1430774 | Top | P | 9 | 0402R | Resistor 5% 63mW | 6k8 |
| R7522 | 1430784 | Top | R | 7 | 0402R | Resistor 5% 63mW | 15k |
| R7523 | 1430772 | Top | Q | 7 | 0402R | Resistor 5% 63mW | 5k6 |
| R7525 | 1430770 | Top | R | 7 | 0402R | Resistor 5% 63mW | 4k7 |
| R7529 | 1620505 | Top | O | 7 | 0404_RAC10 | RES NETWORK 0W04 2DB ATT 0404 | 436R/ 11R6/ 436R |
| R7531 | 1430726 | Top | T | 8 | 0402R | Resistor 5% 63mW | 100R |
| R7540 | 1430754 | Top | U | 2 | 0402R | Resistor 5% 63mW | 1k0 |
| R7700 | 1430700 | Top | T | 5 | 0402R | Resistor 5% 63mW | 10R |

| Item | Code | Location Side/Grid/Ref | | | Type | Description and Value | |
|-------|---------|---------------------------|---|---|--------------|--|------|
| R7701 | 1430700 | Top | X | 5 | 0402R | Resistor 5% 63mW | 10R |
| R7702 | 1430700 | Top | T | 3 | 0402R | Resistor 5% 63mW | 10R |
| R7703 | 1430714 | Top | V | 6 | 0402R | Resistor 5% 63mW | 33R |
| R7704 | 1430714 | Top | V | 6 | 0402R | Resistor 5% 63mW | 33R |
| R7706 | 1430681 | Top | X | 5 | 0402R | CHIPRES 0W06 4R3 J 0402 | 4R3 |
| R7710 | 1430758 | Top | X | 5 | 0402R | Resistor 5% 63mW | 1k5 |
| R7711 | 1430691 | Top | U | 6 | 0402R | CHIPRES 0W06 2R2 J 0402 | 2R2 |
| R7715 | 1430691 | Top | W | 6 | 0402R | CHIPRES 0W06 2R2 J 0402 | 2R2 |
| R7800 | 1430700 | Top | U | 3 | 0402R | Resistor 5% 63mW | 10R |
| R7801 | 1430726 | Top | U | 2 | 0402R | Resistor 5% 63mW | 100R |
| T6030 | 4550267 | Bottom | F | 3 | TRANS_LDB213 | TRANSF BALUN 2400+-100MHZ | ~ |
| T6400 | 4550133 | Top | D | 3 | TRANS_LDB15 | BALUN TRANSF 2.45+-0.5GHZ 0805 | ~ |
| T6401 | 4550133 | Top | D | 3 | TRANS_LDB15 | BALUN TRANSF 2.45+-0.5GHZ 0805 | ~ |
| T7500 | 4550187 | Top | P | 7 | TRANS_LDB213 | TRANSF BALUN 3600MHZ+-400MHZ | ~ |
| T7700 | 4550223 | Top | T | 6 | TRANS_LDB15 | TRANSF BALUN 1800+-100mhz 2x1.25 | ~ |
| T7800 | 4550165 | Top | U | 2 | TRANS_LDB15 | TRANSF BALUN 1.9GHZ+-100MHZ 2X1.25 | ~ |
| V2020 | 4113721 | Bottom | B | 9 | CASE_457 | TVS DI 1PMT16AT3 16V 175W PWRMITE | ~ |
| V4200 | 4211251 | Bottom | G | 9 | SC_75A | MFET 2SK3019 N 30V 0.1A 7R SC-75A | ~ |
| V6030 | 4210401 | Top | M | 7 | SC75 | TR 2SA1774 P 50V 0.15A 140MHZ SC75 | ~ |
| V6031 | 4210066 | Top | M | 7 | SOT323 | Tr NPN 12V 35mA SOT323 | ~ |

| Item | Code | Location Side/Grid/Ref | | | Type | Description and Value | |
|-------|---------|---------------------------|---|--------|--------------------------|---|-------------------------------------|
| V6300 | 421B028 | Top | D | 1 0 | TSOP6 | MFET SI3865DV P SWITCH TSOP6 | ~ |
| V6311 | 4211251 | Top | A | 5 | SC_75A | MFET 2SK3019 N 30V 0.1A 7R SC-75A | ~ |
| V6400 | 4210401 | Bottom | C | 3 | SC75 | TR 2SA1774 P 50V 0.15A 140MHZ SC75 | ~ |
| V7802 | 4210261 | Top | U | 2 | SOT_363 | TR BGA428 LNA1.8GHZ 19.5DB SOT363 | ~ |
| X2020 | 5409289 | Bottom | V | 5 | BATT_CONN_T_3 36872_2 | SM BATT CONN 3POL SPR 12V 2A LYNX | ~ |
| X2021 | 5460061 | Bottom | A | 5 | SYSCON_MQ202 _NK_14R3 | SM SYSTEM CON- NECTOR 14POL | ~ |
| X2025 | 5409309 | Bottom | V | 3 | TRACEABILITY_P AD | MODULE ID COM- PONENT 2.8X1.8X0.3 | ~ |
| X2700 | 546B065 | Bottom | E | 9 | SIM_CONN_4701 92001 | | SM SIM CONN 6POL P2.54 |
| X4400 | 5409401 | Top | U | 8 | MOLEX_54037_02 07 | SM CONN 2X10 REC P0.5 PWB/PWB | ~ |
| X4401 | 5409335 | Top | N | 9 | SMK_4309_B_B_6 P_V2 | SM CONN 6P SPR P1.3 50V BT0B | ~ |
| X4402 | 5409345 | Top | K | 9 | MOLEX_53794_06 08 | SM CONN 2X30M PLUG P0.5 PCB/ PCB | ~ |
| X5200 | 546B064 | Bottom | F | 6 | CONN_MMC_470 203401 | | SM MMC CONN 6POL P2.5 H3.4 |
| X6400 | 5429021 | Bottom | F | 1 | COAX_CRS5001 | SM CONN RF+SW 100V 1W 50R 2.2GHZ | ~ |
| Z4400 | 4129035 | Top | M | 9 | uBGA25_2.69X2.6 9 | ASIP 10-CH ESD EMI FILTER BGA25 | ~ |
| Z4401 | 4129035 | Top | M | 9 | uBGA25_2.69X2.6 9 | ASIP 10-CH ESD EMI FILTER BGA25 | ~ |

| Item | Code | Location Side/Grid/Ref | | | Type | Description and Value | |
|-------|---------|---------------------------|---|---|-----------------------|---|-----------|
| Z4402 | 4129035 | Top | I | 8 | uBGA25_2.69X2.69 | ASIP 10-CH ESD EMI FILTER BGA25 | ~ |
| Z4403 | 4129035 | Top | I | 8 | uBGA25_2.69X2.69 | ASIP 10-CH ESD EMI FILTER BGA25 | ~ |
| Z6400 | 4550303 | Top | F | 3 | FILTER_4_2 | CER.FILT 2450+- 50MHZ/2DB 3.4X2.7X1.6MM | 2450MHz |
| Z7700 | 4511407 | Top | W | 6 | FILTER_FAR_F5C Q | SAW FILTER 897.5+- 17.5MHZ 2X2.5 | 897.5MHz |
| Z7800 | 4550263 | Top | W | 2 | ANT_SW_SHS_L0 90NQ | ANT SW 850/900/ 1800/1900 6.7X5 | ~ |
| Z7806 | 4511405 | Top | V | 2 | FILTER_SAFET | SAW FILT 1960+- 30MHZ/5DB 2.5X2.0MM | 1960MHz |
| Z7808 | 4511413 | Top | V | 2 | FILTER_FAR_F6C Q | SAW FILT 1842.5+- 37.5MHZ 2.5X2MM | 1842.5MHz |
| Z7809 | 4511411 | Top | S | 7 | FILTER_FAR_F5C Q | SAW FILT 942.5+- 17.5MHZ 2.5X2.0MM | 942.5MHz |

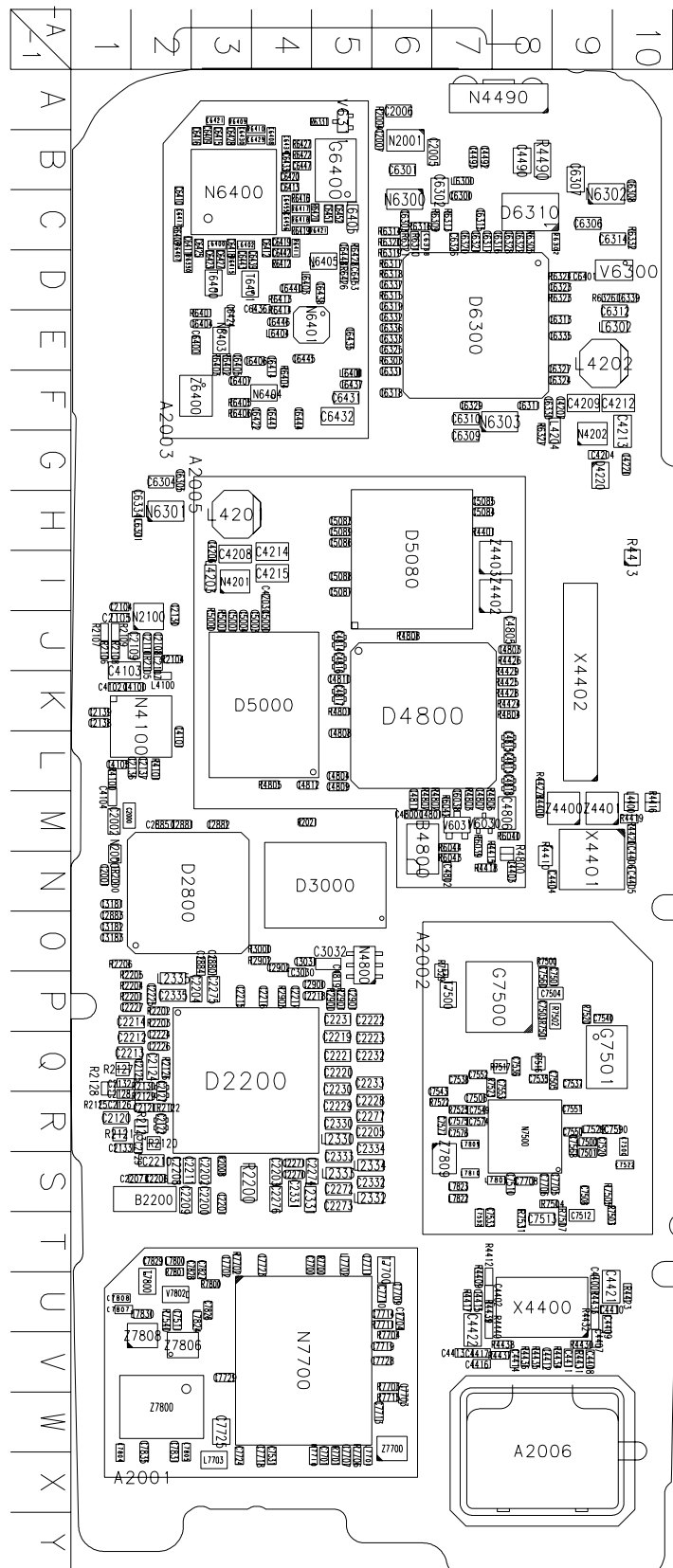
■ Variant parts for RA-3 engine module

| Item | EU part number | US part number | EU description | US description |
|----------------|----------------|----------------|-------------------------|-------------------------|
| L 2120 , L2121 | 3645379 | 3645373 | CHIP COIL 27N | CHIP COIL 33N |
| N 7700 | 4350427 | 4350435 | PA 900/1800/1900MHZ | PA 850/1800/1900 |
| Z 7700 | 4511407 | 4511403 | SAW FILT 897.5+-17.5MHZ | SAW FILT 836+-12.5MHZ |
| Z 7809 | 4511411 | 4511409 | SAW FILT 942.5+-17.5MHZ | SAW FILT 881.5+-12.5MHZ |
| L 7700 | NON ASSY | 3646069 | - | CHIP COIL 33N |
| X 2024 | NON ASSY | 5409309 | - | MODULE ID COMPONENT |

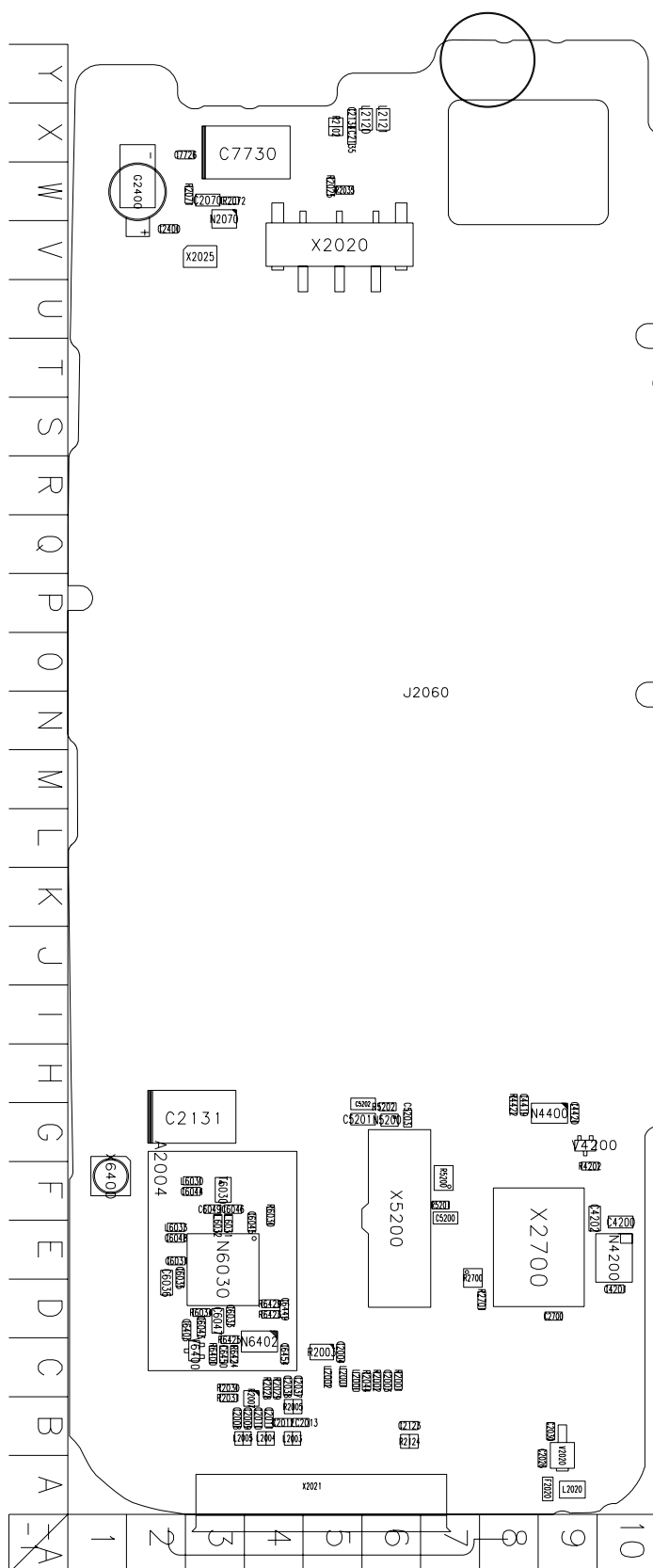
Parts not assembled in RA-3

| Item | EU part number | EU description |
|--------|----------------|---------------------|
| C 7508 | 2320530 | CHIPCAP NP0 5P6 |
| X 2025 | 5409309 | MODULE ID COMPONENT |

■ RA-2 component layout diagram - Top



■ RA-2 component layout diagram - Bottom



[This page intentionally blank]