

**Appendix 7.**

**Part list**

| S/N | TYPE | PART_NUMBER                  | CODE         | FootPrint  | VENDOR    | QTY | NC | ROHS | DESCRIPTION  | REFERENCE  | 메모           |
|-----|------|------------------------------|--------------|------------|-----------|-----|----|------|--|--|--------------|
| 001 | 부품   | BCM63619VKFEBG               |              |            |           | 1   |    |      |  | U101   |              |
| 002 | 부품   | K4T1G084QF-BCE7              | 0106C-000160 |            | 삼성전자      | 2   |    | Y    | 1Gb SDRAM memory   | U102 U103  |              |
| 003 | 부품   | NAND512W3A2SN6E              |              | 48P TSOP   | MICRON    | 1   |    | Y    | IC,64M x 8 Bit NAND Flash Memory,TSOP,2.7V~3.6V  | U104   |              |
| 004 | 부품   | A4809E3VR-293DC              |              | 3P SOT-23  | AIT       | 1   |    |      | IC,DIGITAL,High Precision Built-In Delay Circuit Voltage Detector,TD=200msec,VDET=2.93V  | U105   |              |
| 006 | 부품   | AS179-92LF                   |              |            |           | 2   |    |      |  | U401 U402  |              |
| 007 | 부품   | BCM54610C1KMLG               |              |            |           | 1   |    |      |  | U501   |              |
| 008 | 부품   | BCM54616C0KMLG               |              |            |           | 1   |    |      |  | U502   |              |
| 009 | 부품   | TK3714A-EEQ-LFG              |              |            |           | 1   |    |      |  | U601   |              |
| 010 | 부품   | W25Q80BVSSIG                 | 0108X-000180 | 8P SO-8    | WINBOND   | 1   |    |      | IC,FLASH,8M bit Low Voltage, Serial Flash Memory With 50MHz SPI Bus Interface,8SOIC-208mil   | U602   |              |
| 011 | 부품   | LE88266DLC                   | 0101X-000187 | 80P QFP    | ZARLINK   | 1   |    | Y    | Dual Channel Wideband Auto BatterySwitching(ABS) VoicePort, Complete BORSCHT Function for Two Channels                               | U801   |              |
| 012 | 부품   | SVG170D                      |              |            |           | 2   |    |      |  | U802 U803  |              |
| 013 | 부품   | AOZ1073AIL                   | 0103X-000171 |            | AOS       | 3   |    |      | IC, mixed, 3A Synchronous Buck Regulator   | U902 U903 U905                                   |              |
| 014 | 부품   | ZEN132V230A16LS              |              |            |           | 1   |    |      |  | U904   |              |
| 015 | 부품   | LMV331MSX/NOPB               |              |            |           | 1   |    |      |  | U908   |              |
| 016 | 부품   | SS32                         | 0201X-000002 | 2P DO-214  | DELTA     | 2   |    | Y    | DIODE,SILICON,SHOTTKY,3A,20V   | D201 D202  |              |
| 017 | 부품   | ES1D-13-F                    |              |            | DELTA     | 3   |    |      |  | D801 D803 D804                                   |              |
| 018 | 부품   | MMBD4448H                    |              |            | DELTA     | 1   |    |      |  | D802   |              |
| 019 | 부품   | DEA252450BT-2027A1           |              |            |           | 2   |    |      |  | FL404 FL405                                      |              |
| 020 | 부품   | SFRV250-120                  |              |            |           | 4   |    |      |  | F801 F802 F803 F804                              |              |
| 021 | 부품   | AO6604                       |              |            |           | 2   |    |      |  | Q201 Q202  |              |
| 022 | 부품   | KMA2D4P20SA                  | 0303D-000014 | 3P SOT-23  | KEC       | 1   |    | Y    | SMD,CMOS,P-CH HEXFET POWER MOSFET,SOT-23   | Q601   |              |
| 023 | 부품   | KTK5132U                     | 0303B-000015 | 3P SOT-23  | KEC       | 1   |    | Y    | SMD,N-CH MOSFET,ULTRA-HIGH SPEED SWITCHING APPLICATION ANALOG SWITCH   | Q602   |              |
| 024 | 부품   | MBT3946DW1T1G                | 0301B-000019 | 6P SOT-363 | ONSEMI    | 1   |    | Y    | TR,S1,DUAL(NPN+PNP),VCEO +/-40V,IC 200MA,VCBO PNP=60V NPN=-40V,VEB PNP=6V NPN=-5V,150MW , MMDT3946-7-F/diodes                        | Q801   |              |
| 025 | 부품   | UTF3055G-AA3-R               |              |            |           | 1   |    |      |  | Q802   |              |
| 026 | 부품   | CT-1212TEF-IF5P E20          | 0411X-000024 |            | CORETEK   | 1   |    | Y    | 1000BASE-PX20-ONU Transiver,SFF2*5,Single Pig Tail SC/APC Connector,1310nm FP LD,Single+3.3V, PECL Differential Electrical Interface | OPT601   |              |
| 027 | 부품   | XS3225F-20M-12D-10           |              |            |           | 1   |    |      |  | Y101   |              |
| 029 | 부품   | HC-49/S(ATS) 25.000MHZ(18PF) | 1401X-000041 | 2P PTH     | 원라이트전자    | 2   |    |      | XTAL,PTH,25.000MHz,18PF,30PPM AT   | Y501 Y502  |              |
| 031 | 부품   | 17-21/BHC-AN1P2/3T           |              |            |           | 12  |    |      | DIODE,SMD,0805,LED,BLUE  | LED802 LED803 LED901 LED903 LED904 LED905 LED906 |              |
| +   |      |                              |              |            |           |     |    |      |  | LED907 LED910 LED911                             |              |
| 032 | 부품   | 17-21SURC/S530-A3/TR8        |              |            | EVERLIGHT | 2   |    |      | DIODE,SMD,0805,LED,RED   | LED908 LED909                                    | BL-HE135A 적용 |
| 033 | 부품   | BLM18AG601SN1                | 1501X-000409 | 2P 1608    | MURATA    | 26  |    |      | BEAD,CHIP,0603,600 OHM @ 100MHZ,SN PLATING   | BD201 BD202 BD305 BD306 BD309 BD310 BD311 BD312  |              |
| +   |      |                              |              |            |           |     |    |      |  | BD313 BD501 BD502 BD503 BD504 BD505 BD506 BD507  |              |
| +   |      |                              |              |            |           |     |    |      |  | BD508 BD509 BD605 BD608 BD609 BD610 BD611 BD612  |              |
| +   |      |                              |              |            |           |     |    |      |  | BD613 BD614                                      |              |
| 034 | 부품   | BLM15BD750SN1                | 1501X-000430 | 2P 1005    | MURATA    | 9   |    |      | BEAD,CHIP,0402,75 OHM @ 100MHZ   | FB201 FB202 FB203 FB501 FB502 FB503 BD601 BD602  |              |
| +   |      |                              |              |            |           |     |    |      |  | BD603  |              |
| 034 | 부품   | CLH1005T-1N5S-S              |              |            | CHILISIN  | 1   |    |      | INDUCTOR,CHIP,0402,1.5nH   | C402   |              |
| 036 | 부품   | CP321611T-500Y               |              |            |           | 1   |    |      |  | BD904  |              |
| 037 | 부품   | PLF5020T-2R2M3R1             | 0702A-000018 | 2P 5025    | TDK       | 2   |    |      | SMD POWER WINDING INDUCTOR,2.2UH,3R1A,20%  | L201 L202  |              |
| 038 | 부품   | PLF5020T-3R3M2R6             |              |            |           | 3   |    |      |  | L901 L902 L903                                   |              |
| 039 | 부품   | 40SS1041AXHF                 |              |            |           | 1   |    |      | HST-4047SCR  | TF701  |              |
| 040 | 부품   | C8100                        |              |            | SUMIDA    | 1   |    |      |  | TF801  |              |
| 041 | 부품   | KMG25VB4700M                 |              |            |           | 1   |    |      |  | EC612  | 4700UF 대치    |
| 042 | 부품   | KMG100VB33M                  |              |            |           | 1   |    |      |  | EC801  |              |
| 043 | 부품   | KMG50VB100M                  |              |            |           | 1   |    |      |  | EC802  |              |
| 044 | 부품   | KMG50VB22M                   | 0607A-000135 | 2P DIP     | SAMYOUNG  | 2   |    |      | CAP,AL,RADIAL,5X11,22uF,50V,105°C,RGA SERIES   | EC901 EC902                                      |              |

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|-----|------|-----------------|--------------|-----------|-----------|-----|----|------|---|---|----------------|
| 045 | 부품   | KMG16VB470M     |              |           |           | 3   |    |      |   | EC905 EC906 EC907                                 |                |
| 046 | 부품   | CL31F226ZPHNNNE | 0605X-000132 | 2P 3216   | 삼성전기      | 10  |    | Y    | CAP,MLCC,CHIP,3216,22uF,10V,-20/+80%,Y5V,EMBOSS 7in | C204 C206 C385 C904 C905 C907 C909 C910 C921 C922 |                |
| 047 | 부품   | CL10A475KP8NNNC | 0605X-001756 | 2P 1608   | 삼성전기      | 10  |    | Y    | CAP,MLCC,CHIP,1608,4.7uF,10V,10%,X5R,7in REEL       | C111 C112 C308 C309 C332 C333 C349 C351 C801 C802 |                |
| 048 | 부품   | CL10A225KO8NNNC | 0605X-001751 | 2P 1608   | 삼성전기      | 2   |    | Y    | CAP,MLCC,CHIP,1608,2.2uF,16V,10%,X5R,7in REEL       | C301 C302   |                |
| 049 | 부품   | CL21F105ZBFNNNE |              |           |           | 1   |    |      |   | C901  |                |
| 050 | 부품   | CL05F105ZQ5NNNC | 0605X-000007 | 2P 1005   | 삼성전기      | 14  |    | Y    | CAP,MLCC,CHIP,1005,1uF,6.3V,-20/+80%,Y5V,7in REEL   | C339 C342 C348 C352 C354 C355 C368 C376 C378 C380 |                |
| +   |      |                 |              |           |           |     |    |      |   | C381 C382 C384 C386                               |                |
| 051 | 부품   | CL21F106ZPFNNNE | 0605X-000104 | 2P 2012   | 삼성전기      | 15  |    | Y    | CAP,MLCC,CHIP,2012,10uF,10V,-20/+80%,Y5V,EMBOSS 7in | C203 C208 C316 C317 C370 C508 C512 C514 C519 C524 |                |
| +   |      |                 |              |           |           |     |    |      |   | C528 C530 C623 C628 C803                          |                |
| 052 | 부품   | CL05B104KO5NNNC | 0605X-000139 | 2P 1005   | 삼성전기      | 152 |    | Y    | CAP,MLCC,CHIP,1005,100nF,16V,10%,X7R,7in REEL       | C101 C102 C103 C104 C105 C106 C107 C108 C109 C110 |                |
| +   |      |                 |              |           |           |     |    |      |   | C113 C114 C115 C116 C117 C118 C119 C120 C121 C122 |                |
| +   |      |                 |              |           |           |     |    |      |   | C123 C124 C125 C128 C129 C130 C202 C205 C207 C210 |                |
| +   |      |                 |              |           |           |     |    |      |   | C211 C303 C304 C305 C306 C307 C310 C311 C312 C313 |                |
| +   |      |                 |              |           |           |     |    |      |   | C314 C315 C318 C319 C320 C321 C322 C323 C324 C325 |                |
| +   |      |                 |              |           |           |     |    |      |   | C326 C327 C328 C329 C330 C331 C334 C335 C336 C343 |                |
| +   |      |                 |              |           |           |     |    |      |   | C345 C353 C356 C357 C367 C369 C501 C502 C503 C506 |                |
| +   |      |                 |              |           |           |     |    |      |   | C507 C509 C510 C511 C513 C515 C516 C517 C518 C520 |                |
| +   |      |                 |              |           |           |     |    |      |   | C521 C522 C523 C525 C526 C527 C529 C531 C532 C533 |                |
| +   |      |                 |              |           |           |     |    |      |   | C534 C535 C536 C537 C538 C539 C540 C541 C542 C543 |                |
| +   |      |                 |              |           |           |     |    |      |   | C544 C545 C601 C602 C603 C605 C607 C609 C611 C613 |                |
| +   |      |                 |              |           |           |     |    |      |   | C615 C616 C622 C625 C626 C627 C630 C633 C635 C637 |                |
| +   |      |                 |              |           |           |     |    |      |   | C639 C641 C643 C645 C647 C649 C651 C653 C655 C657 |                |
| +   |      |                 |              |           |           |     |    |      |   | C659 C661 C663 C665 C667 C669 C671 C673 C675 C677 |                |
| +   |      |                 |              |           |           |     |    |      |   | C679 C681 C683 C685 C687 C813 C814 C815 C816 C817 |                |
| +   |      |                 |              |           |           |     |    |      |   | C826 C902   |                |
| 054 | 부품   | CL05B103KO5NNNC | 0605X-000052 | 2P 1005   | 삼성전기      | 16  |    | Y    | CAP,MLCC,CHIP,1005,10nF,16V,10%,X7R,7in REEL        | C350 C604 C610 C614 C617 C620 C621 C624 C629 C701 |                |
| +   |      |                 |              |           |           |     |    |      |   | C702 C703 C704 C903 C906 C908                     |                |
| 055 | 부품   | CL05B332KB5NNNC | 0605X-000071 | 2P 1005   | 삼성전기      | 1   |    | Y    | CAP,MLCC,CHIP,1005,3.3nF,50V,10%,X7R,7in REEL       | C337  |                |
| 056 | 부품   | C1808X102K302T  | 0605X-000034 | 2P 4520   | HOLYSTONE | 2   |    | Y    | CAP,MLCC,CHIP,1808,1nF,3KV,10%,X7R,TAPING           | C705 C706   |                |
| 057 | 부품   | CL05B102KB5NNNC | 0605X-000004 | 2P 1005   | 삼성전기      | 21  |    | Y    | CAP,MLCC,CHIP,1005,1nF,50V,10%,X7R,7in REEL         | C344 C375 C377 C379 C383 C387 C619 C835 C836 C911 |                |
| +   |      |                 |              |           |           |     |    |      |   | C912 C913 C914 C915 C916 C917 C918 C919 C920 C926 |                |
| +   |      |                 |              |           |           |     |    |      |   | C928  |                |
| 058 | 부품   | CL05C101JB5NNNC | 0605X-000003 | 2P 1005   | 삼성전기      | 37  |    | Y    | CAP,MLCC,CHIP,1005,100pF,50V,5%,COG,7in REEL        | C201 C338 C340 C341 C346 C347 C606 C608 C612 C632 |                |
| +   |      |                 |              |           |           |     |    |      |   | C634 C636 C638 C640 C642 C644 C646 C648 C650 C652 |                |
| +   |      |                 |              |           |           |     |    |      |   | C654 C656 C658 C660 C662 C664 C666 C668 C670 C672 |                |
| +   |      |                 |              |           |           |     |    |      |   | C674 C676 C678 C680 C682 C684 C686                |                |
| 059 | 부품   | CL05C120JB5NNNC | 0605X-000058 | 2P 1005   | 삼성전기      | 1   |    | Y    | CAP,MLCC,CHIP,1005,12pF,50V,5%,COG,7in REEL         | C126  |                |
| 060 | 부품   | CL05C150JB5NNNC | 0605X-000055 | 2P 1005   | 삼성전기      | 1   |    | Y    | CAP,MLCC,CHIP,1005,15pF,50V,5%,COG,7in REEL         | C127  |                |
| 061 | 부품   | CL05C270JB5NNNC | 0605X-000084 | 2P 1005   | 삼성전기      | 4   |    | Y    | CAP,MLCC,CHIP,1005,27pF,50V,5%,COG,7in REEL         | C504 C505 C546 C547                               |                |
| 062 | 부품   | CL05C090DB5NNNC |              |           |           | 12  |    |      |   | C403 C409 C413 C415 C418 C420 C421 C422 C423 C424 |                |
| +   |      |                 |              |           |           |     |    |      |   | C425 C426   |                |
| 064 | 부품   | 201R18W683KV4E  |              |           | JOHANSON  | 4   |    |      |   | C804 C807 C811 C812                               |                |
| 065 | 부품   | 201R18W223KV4E  |              |           | JOHANSON  | 4   |    |      |   | C805 C806 C809 C810                               | 201R15W223KV4E |
| 066 | 부품   | 201R18W104KV4E  | 0605X-000066 | 2P 3216   | JOHANSON  | 5   |    | Y    | CAP,MLCC,CHIP,3216,100nF,200V,10%,X7R,EMBOSS 7in    | C808 C821 C828 C829 C830                          |                |
| 067 | 부품   | CL05C221JB5NNNC | 0605X-000295 | 2P 1005   | 삼성전기      | 2   |    | Y    | CAP,MLCC,CHIP,1005,220pF,50V,5%,COG,7in REEL        | C818 C819   |                |
| 069 | 부품   | 101R14W102KV4E  |              |           | JOHANSON  | 1   |    |      |   | C820  |                |
| 070 | 부품   | CL21B104KBCNNNC | 0605X-000121 |           | 삼성전기      | 1   |    | Y    | CAP,MLCC,CHIP,0805,100nF,50V,±10%,X7R,7in REEL      | C822  |                |
| 071 | 부품   | CL31B474KBHNNNE |              |           |           | 1   |    |      |   | C823  |                |
| 072 | 부품   | CL05B472KB5NNNC | 0605X-000102 | 2P 1005   | 삼성전기      | 1   |    | Y    | CAP,MLCC,CHIP,1005,4.7nF,50V,10%,X7R,7in REEL       | C824  |                |
| 073 | 부품   | CL05B331JB5NNNC |              |           |           | 1   |    |      |   | C825  |                |
| 074 | 부품   | RC1005F104CS    |              |           |           | 2   |    |      |   | R908 R910   |                |
| 076 | 부품   | RC1005F3162CS   | 0502A-000189 | 2P 1005   | 삼성전기      | 2   |    | Y    | RES,CHIP,1005,31.6KOHM,1%,0.0625W,7in REEL          | R905 R911   |                |
| 077 | 부품   | RC1005F203CS    | 0501X-001708 | 2P 1005   | 삼성전기      | 3   |    | Y    | RES,CHIP,1005,20KOHM,1%,0.0625W,7in REEL            | R907 R928 R932                                    |                |
| 078 | 부품   | RC1005F1472CS   |              |           |           | 1   |    |      |   | R401  |                |

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|-----|------|----------------------------|--------------|-----------|-----------|-----|----|------|---|---|----|
| 079 | 부품   | RC1005F103CS               | 0502A-000155 | 2P 1005   | 삼성전기      | 3   |    | Y    | RES,CHIP,1005,10KOHM,1%,0.0625W,7in REEL                            | R906 R930 R934                                    |    |
| 080 | 부품   | RC1005J103CS               | 0502A-000033 | 2P 1005   | 삼성전기      | 21  |    | Y    | RES,CHIP,1005,10KOHM,5%,0.0625W,7in REEL                            | R106 R203 R218 R219 R614 R615 R616 R617 R622 R623 |    |
| +   |      |                            |              |           |           |     |    |      |   | R624 R625 R626 R628 R644 R645 R646 R819 R821 R824 |    |
| +   |      |                            |              |           |           |     |    |      |   | R909  |    |
| 081 | 부품   | RC1005F4991CS              | 0502A-000011 | 2P 1005   | 삼성전기      | 1   |    | Y    | RES,CHIP,1005,4.99KOHM,1%,0.0625W,7in REEL                          | R630  |    |
| 082 | 부품   | RC1005J472CS               | 0502A-000028 | 2P 1005   | 삼성전기      | 17  |    | Y    | RES,CHIP,1005,4.7KOHM,5%,0.0625W,7in REEL                           | R102 R103 R104 R107 R114 R507 R508 R510 R511 R517 |    |
| +   |      |                            |              |           |           |     |    |      |   | R518 R601 R602 R913 R914 R940 R941                |    |
| 084 | 부품   | RC1005F4021CS              | 0501X-001700 | 2P 1005   | 삼성전기      | 1   |    | Y    | RES,CHIP,1005,4.02KOHM,1%,0.0625W,7in REEL                          | R202  |    |
| 086 | 부품   | RC1005J302CS               | 0502A-000038 | 2P 1005   | 삼성전기      | 1   |    | Y    | RES,CHIP,1005,3KOHM,5%,0.0625W,7in REEL                             | R129  |    |
| 087 | 부품   | RC1005J152CS               |              |           |           | 3   |    |      |   | R217 R613 R629                                    |    |
| 088 | 부품   | RM04FTN1241                | 0502A-000315 | 2P 1005   | TAI       | 3   |    | Y    | RES,CHIP,1005,0.0625W,1.24KOHM,1%,Paper Tape                        | R201 R509 R514                                    |    |
| 089 | 부품   | RC1005F102CS               | 0502A-000006 | 2P 1005   | 삼성전기      | 2   |    | Y    | RES,CHIP,1005,1KOHM,1%,0.0625W,7in REEL                             | R109 R110   |    |
| 090 | 부품   | RC1005J102CS               | 0502A-000024 | 2P 1005   | 삼성전기      | 8   |    | Y    | RES,CHIP,1005,1KOHM,5%,0.0625W,7in REEL                             | R118 R220 R221 R222 R223 R618 R926 R935           |    |
| 091 | 부품   | RC1005F241CS               |              |           |           | 1   |    |      |   | R101  |    |
| 092 | 부품   | RC1005F221CS               | 0502A-000162 | 2P 1005   | 삼성전기      | 1   |    | Y    | RES,CHIP,1005,220OHM,1%,0.0625W,7in REEL                            | R112  |    |
| 093 | 부품   | RM04FTN1740                | 0502A-000207 | 2P 1005   | TAI       | 12  |    | Y    | RES,CHIP,1005,0.0625W,174OHM,1%,Paper Tape                          | R836 R837 R915 R916 R917 R918 R919 R920 R921 R922 |    |
| +   |      |                            |              |           |           |     |    |      |   | R923 R924   |    |
| 095 | 부품   | RC1005F131CS               | 0502A-000186 | 2P 1005   | 삼성전기      | 3   |    | Y    | RES,CHIP,1005,130OHM,1%,0.0625W,7in REEL                            | R632 R634 R636                                    |    |
| 097 | 부품   | RC1005F101CS               | 0502A-000012 | 2P 1005   | 삼성전기      | 4   |    | Y    | RES,CHIP,1005,100OHM,1%,0.0625W,7in REEL                            | R108 R111 R942 R943                               |    |
| 098 | 부품   | RC1005F820CS               | 0502A-000187 | 2P 1005   | 삼성전기      | 3   |    | Y    | RES,CHIP,1005,820OHM,1%,0.0625W,7in REEL                            | R633 R635 R637                                    |    |
| 100 | 부품   | RC1005J750CS               |              |           |           | 12  |    |      |   | R701 R702 R703 R704 R705 R706 R707 R708 R709 R710 |    |
| +   |      |                            |              |           |           |     |    |      |   | R711 R712   |    |
| 101 | 부품   | RC1005J330CS               | 0502A-000287 | 2P 1005   | 삼성전기      | 38  |    | Y    | RES,CHIP,1005,330OHM,5%,0.0625W,7in REEL                            | R113 R135 R212 R213 R214 R215 R216 R502 R503 R504 |    |
| +   |      |                            |              |           |           |     |    |      |   | R505 R506 R520 R521 R522 R523 R524 R525 R526 R527 |    |
| +   |      |                            |              |           |           |     |    |      |   | R528 R529 R530 R531 R532 R603 R604 R605 R606 R607 |    |
| +   |      |                            |              |           |           |     |    |      |   | R608 R609 R610 R611 R619 R620 R621 R627           |    |
| 103 | 부품   | WR04X4752FTL               | 0502A-000282 | 2P 1005   | WALSIN    | 2   |    | Y    | RES,CHIP,1005,47.5KOHM,1%,0.0625W,7in REEL                          | R801 R802   |    |
| 104 | 부품   | RC1005F753CS               | 0502A-000330 | 2P 1005   | 삼성전기      | 1   |    | Y    | RES,CHIP,1005,75KOHM,1%,0.0625W,7in REEL                            | R803  |    |
| 105 | 부품   | WR08X4023FTL               | 0502A-000298 | 2P 2012   | WALSIN    | 8   |    | Y    | RES,CHIP,2012,402KOHM,1%,0.125W,7in REEL                            | R804 R809 R811 R815 R816 R818 R826 R827           |    |
| 106 | 부품   | WR08X3011FTL               | 0502A-000198 | 2P 2012   | WALSIN    | 4   |    | Y    | RES,CHIP,2012,3.01KOHM,1%,0.125W,7in REEL                           | R805 R808 R813 R814                               |    |
| 107 | 부품   | RC1608F561CS               | 0502A-000677 | 2P 1608   | 삼성전기      | 1   |    | Y    | RES,CHIP,1608,560OHM,1%,0.1W,7in REEL                               | R820  |    |
| 108 | 부품   | WR12X1801FTL               |              |           | WALSIN    | 2   |    |      |   | R822 R823   |    |
| 109 | 부품   | WR12X7502FTL               |              |           | WALSIN    | 1   |    |      |   | R825  |    |
| 110 | 부품   | WR12X20R0FTL               |              |           | WALSIN    | 1   |    |      |   | R830  |    |
| 111 | 부품   | WR12X10R0FTL               |              |           | WALSIN    | 1   |    |      |   | R831  |    |
| 112 | 부품   | RC1005F562CS               | 0502A-000331 | 2P 1005   | 삼성전기      | 2   |    | Y    | RES,CHIP,1005,5.6KOHM,1%,0.0625W,7in REEL                           | R925 R938   |    |
| 113 | 부품   | WR04X2152FTL               |              |           | WALSIN    | 2   |    |      |   | R927 R931   |    |
| 114 | 부품   | RC1005J1R0CS               |              |           |           | 4   |    |      |   | R204 R205 R207 R208                               |    |
| 115 | 부품   | RS-06FL7-0R01              |              |           |           | 2   |    |      |   | R206 R209   |    |
| 116 | 부품   | RS-06FL7-0R02              |              |           |           | 1   |    |      |   | R800  |    |
| 117 | 부품   | RC1005J000CS               | 0502A-000021 | 2P 1005   | 삼성전기      | 15  |    | Y    | RES,CHIP,1005,0OHM,5%,0.0625W,7in REEL                              | R116 R312 R313 R314 R642 R643 R833 R839 R912      |    |
| +   |      |                            |              |           |           |     |    |      |   | R936 R937 R301 R302 R303 R305                     |    |
| 119 | 부품   | RC1005J49R9CS              | 0502A-000020 | 2P 1005   | 삼성전기      | 2   |    | Y    | RES,CHIP,1005,49.9OHM,5%,0.0625W,7in REEL                           | R402 R403   |    |
| 120 | 부품   | DC-005                     | 3001X-000190 |           | DUOYUAN   | 1   |    |      | CONN, GENERAL PURPOSE, POWER, DC JACK                               | CON901  |    |
| 121 | 부품   | TM00540                    |              |           |           | 1   |    |      |   | CON701  |    |
| 122 | 부품   | 5920-50-110-4P             |              |           |           | 1   |    |      |   | CON801  |    |
| 123 | 부품   | DWLS-102-A4                | 1303X-000006 | 3P DIP    | ILWON     | 1   |    |      | DIP,PWR SWITCH,2단스위치,CAP 7.6mm                                      | SW901   |    |
| 124 | 부품   | STP1236B                   |              |           |           | 2   |    |      |   | SW902 SW903                                       |    |
| 125 | 부품   | GPHA101-0402A01            | 3007X-000075 | 4P DIP    | GREENCONN | 2   |    | Y    | CONN,HEADER,1X4 PIN, 2.54MM PITCH,S/T,6MM MATE, 3MM TAIL,GOLD PLATE | J201 J601   |    |
| 126 | 부품   | 150mm KRS-C504W-150        |              |           |           | 1   |    |      |   | ANT402  |    |
| 127 | 부품   | 200mm KRS-C504W-200        |              |           |           | 1   |    |      |   | ANT401  |    |
| 005 | 부품   | W25Q128BVF1G               |              |           |           | 0   | Y  |      |   | U106  |    |
| 028 | 부품   | SIT8004AC-83-33E-125.00000 | 1402X-000038 | 4P SMD    | SITIME    | 0   | Y  |      | XTAL,SMD OSC,125MHz,3.3V,-20~70°C,+/-50ppm                          | OSC601  |    |

| S/N | TYPE | PART_NUMBER     | CODE         | FootPrint | VENDOR | QTY | NC | ROHS | DESCRIPTION                                   | REFERENCE                               | 메모 |
|-----|------|-----------------|--------------|-----------|--------|-----|----|------|---|---|----|
| 030 | 부품   | BL-HG036A       | 0209X-000163 | 2P 1608   | 성륜     | 0   | Y  | Y    | DIODE,SMD,0603,LED,GREEN                      | LED501                                  |    |
| 035 | 부품   | CP321611T-500Y  |              |           |        | 0   | Y  |      |   | BD903 BD905                             |    |
| 053 | 부품   | CL05B104KO5NNNC | 0605X-000139 | 2P 1005   | 삼성전기   | 0   | Y  | Y    | CAP,MLCC,CHIP,1005,100nF,16V,10%,X7R,7in REEL | C618 C827                               |    |
| 063 | 부품   | CL05C090DB5NNNC |              |           |        | 0   | Y  |      |   | C401 C405 C407 C408 C411                |    |
| 068 | 부품   | CL05C221JB5NNNC | 0605X-000295 | 2P 1005   | 삼성전기   | 0   | Y  | Y    | CAP,MLCC,CHIP,1005,220pF,50V,5%,COG,7in REEL  | C831                                    |    |
| 075 | 부품   | RC1005F104CS    |              |           |        | 0   | Y  |      |   | R929 R933                               |    |
| 083 | 부품   | RC1005J472CS    | 0502A-000028 | 2P 1005   | 삼성전기   | 0   | Y  | Y    | RES,CHIP,1005,4.7KOHM,5%,0.0625W,7in REEL     | R105 R117                               |    |
| 085 | 부품   | RC1005J302CS    | 0502A-000038 | 2P 1005   | 삼성전기   | 0   | Y  | Y    | RES,CHIP,1005,3KOHM,5%,0.0625W,7in REEL       | R127 R128 R130 R131 R132 R133 R134 R136 |    |
| 094 | 부품   | RM04FTN1740     | 0502A-000207 | 2P 1005   | TAI    | 0   | Y  | Y    | RES,CHIP,1005,0.0625W,174OHM,1%,Paper Tape    | R533                                    |    |
| 096 | 부품   | RC1005F131CS    | 0502A-000186 | 2P 1005   | 삼성전기   | 0   | Y  | Y    | RES,CHIP,1005,130OHM,1%,0.0625W,7in REEL      | R638 R640                               |    |
| 099 | 부품   | RC1005F820CS    | 0502A-000187 | 2P 1005   | 삼성전기   | 0   | Y  | Y    | RES,CHIP,1005,82OHM,1%,0.0625W,7in REEL       | R639 R641                               |    |
| 102 | 부품   | RC1005J330CS    | 0502A-000287 | 2P 1005   | 삼성전기   | 0   | Y  | Y    | RES,CHIP,1005,33OHM,5%,0.0625W,7in REEL       | R631                                    |    |
| 118 | 부품   | RC1005J000CS    | 0502A-000021 | 2P 1005   | 삼성전기   | 0   | Y  | Y    | RES,CHIP,1005,0OHM,5%,0.0625W,7in REEL        | R838 R835                               |    |