

Revision : 20/07/2020  
PCB2550-1-210-00  
CARTE : K32041A : ANTENNA MODULE  
Customer : NXP  
Done by ASSYSTECH-EA

NXP Semiconducteurs  
2, Esplanade Anton Philips  
BP 2000 - COLOMBELLES  
14906 CAEN CEDEX 9

| Item Number | Quantity | Part Number               | Part Reference               | Value            | PCB Footprint               | Designation   | MANUFACTURER REFERENCE  |
|-------------|----------|---------------------------|------------------------------|------------------|-----------------------------|---|---|
| 1           | 1        |                           | 1                            | BUBBLE-01        | BUBBLE_DIAM8                | Printed Circuit Board : K320414A (NXP : PCB Antenna + Connector uFL)                                      | PCB2550-1   |
| 2           | 1        | 0-00-0ANT_MOD_IN518x      | ANT1                         | NC               | pcb_ant_apps                | !!! COPPER PRINTED BOARD !!!  |   |
| 3           | 2        | 0-00-306046A              | C1, C19                      | 10nF             | C0805                       | Capacitor 0805 10nF 10% 10V X7R (-55° C+125° C)   | MURATA (GRM21BR71A106KA73L)   |
| 4           | 3        | 0-00-305250A              | C10, C11, C13                | 100nF            | C0402                       | Capacitor 0402 100nF 5% 10V X7R (-55° C+125° C)   | MURATA (GRM155R71A1041A01#)   |
| 5           | 2        | 0-00-300164C              | C12, C14                     | 47pF             | C0402                       | Capacitor 0402 47pF 5% 25V COG/NPO (-55° C+125° C)  | MURATA (GRM1555C1E4701A01)  |
| 6           | 2        | 0-00-3NC_C0402            | C20, C21                     | NC               | C0402                       | !!! NOT CONNECTED !!!   | -   |
| 7           | 1        | 0-00-300040A              | C24                          | 1.2pF            | C0402                       | Capacitor 0402 1.2pF +/-0.1pF 50V   | MURATA (GRM1555C1H1R2BA01D)   |
| 8           | 1        | 0-00-305251               | C25                          | 2.0pF            | C0402                       | Capacitor 0402 2.0pF +/-0.1pF 50V   |   |
| 9           | 2        | 0-00-2M1R6_FID_NC         | FID1, FID2                   | NC               | FID1                        | !!! Not Connected !!!   |   |
| 10          | 1        | 0-00-201187A              | I1                           | SMC uFL          | SMC-uFL-R-SMT               | Coaxial Connector SMC (uFL)   | HIROSE (U.FL-R-SMT-1(10)), Hirose Electric Co Ltd (U.FL-R-SMT-1(10)), HRS (HIROSE) (U.FL-R-SMT-1(10)) |
| 11          | 1        | 0-00-002246A_NC           | L1                           | 4.7uH NC         | IND_C0_2518_2520            | !!! NOT CONNECTED !!! Inductor 1008/2520 4.7uH 800mA(Max) 380mA(rms(Max) 20%                              | TAIYO YUDEN (QWNR2520H4R7W)   |
| 12          | 1        | PN-14W15AN3N3B            | L2                           | 3.3nH            | SELF_0402                   | Inductor 0402 3.3nH +/-0.1nH 2A, Ron DC<30mOhms, Q>30, Resonance Freq=14.0 Ghz (-55° C to 125° C)         | MURATA (LQW15AN3N3B)  |
| 13          | 1        |                           | L4                           | 2.2uH            | 0805C-TPCC                  | Inductor Power Shielded Multi-Layer 2.2uH 20% 2MHz Ferrite 0.6A 0.208Ohm DCR 0805 1/R                     | MLZ2012M2R2H1T000   |
| 14          | 1        | 0-00-21YBEMODIN518x 31 NC | LY1                          | NC               | LYBE_31PTS_CARRIER          | !!! Not Connected !!!   | NXP   |
| 15          | 9        | 0-00-3NC_R0402            | R2, R4, R13, R14, R15, R16   | NC               | R0402                       | !!! NOT CONNECTED !!!   | -   |
| 16          | 2        | 0-00-301956               | R3, R5, R7, R8, R9, R10, R11 | 0R               | R0402                       | Resistor 0402 0R - - -  |   |
| 17          | 1        | NC-0-00-204888            | SH1                          | SHIELD-13.7X14.1 | shield_13mm7x14mm1          | !!! NOT CONNECTED !!! SHIELD : 13.7MM x 14.1MM  | NXP   |
| 18          | 1        | 0-00-404672               | U1                           | IN5189 40        | SOT618-1_HVQFN40_050_IN518x | Integrated Circuit IN5189 (QFN40)   | NXP (K32W0414A)   |
| 19          | 1        | 0-00-403987_NC            | X1                           | 32.768khz NC     | NX3215SA                    | !!! NOT CONNECTED !!! Crystal 32.768 KHz +/-20ppm (Automotive version) (Load Cap. 12.5pF) (-40° C to 125° | NDK (NX3215SA-32.768K-STD-MUS-2)  |
| 20          | 1        | 0-00-404675               | X2                           | 32.768khz        | NX2012SA                    | Crystal 32.768 KHz +/-20ppm (Automotive version) (Load Cap. 6.0pF) (-40° C to 125° C)                     | NDK (NX2012SA 32.768KHZ EXS00A-MU01089 6pF)   |
| 21          | 1        | 0-00-404674               | Y1                           | 32.000Mhz        | NX2016SA                    | Crystal 32 MHz +/-40ppm (automotive version) (Load Cap. 6.0pF) (-40° C to 125° C)                         | NDK (NX2016SA 32MHZ EXS00A-CS11213 6pF)   |
| 22          | 1        | 0-00-301956               | R12                          | 0R               | R0805                       | Resistor 0805 0R - - -  |   |
| 23          | 1        |                           | TP1                          | BA8x3            | con 1x3 SMT TMM cav 2-3     | SAMTEC - TMM-103-01-T-S-SM - HEADER, 2.0MM, SMT, 1X3WAY with BUBBLE05                                     |   |