

CC2650 SensorTag

Rev: 1.3.0

| Item Number | Part Reference                             | Quantity | Value                 | Description  | MPN   | Manufacturer           | Part Number |
|-------------|--|----------|-----------------------|--|---|------------------------|-------------|
|             | 1 A1                                       | 1        | DNM                   | MECHANIC, 2.4GHz INVERTED F ANTENNA, SMD   | DN007   | TEXAS INSTRUMENTS      | 13-00347    |
|             | 2 ANT1 ANT4                                | 2        | 2nH                   | INDUCTOR, CHIP, 2nH, -0.3nH/ +0.3nH, 0.3A, -55DEGC/+125DEGC, 0402, SMD   | LQG15HS2N0S02D                                  | MURATA                 | 03-06525    |
|             | 3 ANT2 C17 C18 C31                         | 4        | DNM                   | CAPACITOR, CERAMIC, N/A VALUE, -55DEGC/+125DEGC, 0402, SMD   | CAPACITOR_0402_DNM_N/A_M                        | MANUFACTURER SELECTION | 02-04164    |
|             | 4 ANT3 C11 C13                             | 3        | 1pF                   | CAPACITOR, CERAMIC C0G/NP0, 1pF, 50V, -0.25pF/ +0.25pF, -55DEGC/+125DEGC, 0402, SMD  | GRM1555C1H1R0CA01D                              | MURATA                 | 02-04672    |
|             | 5 ANT5 R9 R12 R26                          | 4        | 0                     | RESISTOR, THICK FILM, 0, -5%/+5%, 0.063W, 50V, -55DEGC/+155DEGC, 0402, SMD   | RESISTOR_0402_0_+/-5%_50V_0.063W_M_+/-200PPM    | MANUFACTURER SELECTION | 01-11587    |
|             | 6 ANT6                                     | 1        | 0.5pF                 | CAPACITOR, CERAMIC C0G/NP0, 0.5pF, 50V, -0.1pF/+0.1pF, -55DEGC/+125DEGC, 0402, SMD   | GRM1555C1HR50BA01D                              | MURATA                 | 02-05038    |
|             | 7 BAT+                                     | 1        | DNM                   | NON COMPONENT, BATTERY + PAD, SMD  |   |                        | 19-00356    |
|             | 8 BAT-                                     | 1        | DNM                   | NON COMPONENT, BATTERY - PAD, SMD  |   |                        | 19-00357    |
|             | 9 BT1                                      | 1        | BAT-HLD-001           | BATTERY, HOLDER FOR CR2032 AND CR2025 BATTERIES, SMD   | BAT-HLD-001                                     | LINX                   | 10-00027    |
|             | 10 BZ1                                     | 1        | HCS0503B              | ACOUSTIC, BUZZER, 3V, -40DEGC/+85DEGC, SMD   | HCS0503B  | CHANGZHOU TIANYIN      | 11-00010    |
|             | 11 C1                                      | 1        | DNM                   | CAPACITOR, CERAMIC X5R, 2.2uF, 10V, -20%/+20%, -55DEGC/+85DEGC, 0603, SMD  | GRM188R61A225ME34D                              | MURATA                 | 02-01132    |
|             | 12 C2 C3 C4 C6 C8 C9 C12                   | 7        | 100nF                 | CAPACITOR, CERAMIC X7R, 100nF, 6.3V, -10%/+10%, -55DEGC/+125DEGC, 0402, SMD  | GRM155R70J104KA01D                              | MURATA                 | 02-02323    |
|             | 13 C5                                      | 1        | 22uF                  | CAPACITOR, CERAMIC X5R, 22uF, 4V, -20%/+20%, -55DEGC/+85DEGC, 0603, SMD  | GRM188R60G226MEA0D                              | MURATA                 | 02-04481    |
|             | 14 C7                                      | 1        | 10uF                  | CAPACITOR, CERAMIC X5R, 10uF, 6.3V, -20%/+20%, -55DEGC/+85DEGC, 0603, SMD  | GRM188R60J106ME47D                              | MURATA                 | 02-02419    |
|             | 15 C14 C15                                 | 2        | 12pF                  | CAPACITOR, CERAMIC C0G/NP0, 12pF, 50V, -5%/+5%, -55DEGC/+125DEGC, 0402, SMD  | GRM1555C1H120JA01D                              | MURATA                 | 02-04168    |
|             | 16 C16 C29                                 | 2        | 1uF                   | CAPACITOR, CERAMIC X5R, 1uF, 10V, -10%/+10%, -55DEGC/+85DEGC, 0402, SMD  | GRM155R61A105KE15D                              | MURATA                 | 02-02381    |
|             | 17 C19 C20 C21 C22 C23 C24 C25 C27 C28 C30 | 10       | 100nF                 | CAPACITOR, CERAMIC X5R, 100nF, 10V, -10%/+10%, -55DEGC/+85DEGC, 0201, SMD  | CAPACITOR_0201_100nF_X5R_L_+/-10%_10V           | MANUFACTURER SELECTION | 02-06086    |
|             | 18 C26                                     | 1        | 10nF                  | CAPACITOR, CERAMIC X5R, 10nF, 10V, -10%/+10%, -55DEGC/+125DEGC, 0201, SMD  | GRM033R71A103KA01D                              | MURATA                 | 02-00599    |
|             | 19 C32 C33                                 | 2        | 15pF                  | CAPACITOR, CERAMIC, 15pF, 50V, -5%/+5%, -55DEGC/+125DEGC, 0201, SMD  | GRM0332C1H150JA01D                              | MURATA                 | 02-06059    |
|             | 20 CR1                                     | 1        | LS L296-P2Q2-1        | OPTO, LED, SUPER RED COLOR, 630nm, 1.8V TO 2.3V, 0.06A, 0603, SMD  | LS L296-P2Q2-1-Z                                | OSRAM                  | 15-01169    |
|             | 21 CR3                                     | 1        | LPL296-J2L2-25        | OPTO, LED, GREEN COLOR, 562nm, 0.02A, 0.08W, 0603, SMD   | LP L296-J2L2-25                                 | OSRAM                  | 15-01023    |
|             | 22 FIDU1 FIDU2 FIDU3 FIDU4 FIDU5 FIDU6     | 6        | DNM                   | FIDUCIAL MARK, ROUND 1.27MM  |   |                        | 19-00300    |
|             | 23 FL1                                     | 1        | BLM18HE152SN1         | FILTER, EMI, 1500@100MHZ, -55DEGC/+125DEGC, 0603, SMD  | BLM18HE152SN1D                                  | MURATA                 | 04-00470    |
|             | 24 J1                                      | 1        | MS-156HF              | CONNECTOR COAX RF, STRAIGHT, FEMALE, SMD   | MS-156HF  | HIROSE                 | 06-02923    |
|             | 25 J2                                      | 1        | LSS-110-01-F-DV-A-TR  | CONNECTOR, HEADER, HI-SPEED SOCKET, FEMALE, STRAIGHT, 2 ROWS,20 PINS, PITCH 0.635mm, SMD                                       | LSS-110-01-F-DV-A-TR                            | SAMTEC                 | 06-03032    |
|             | 26 L1                                      | 1        | 10uH                  | INDUCTOR, CHIP, 10uH, -20%/+20%, 0.11A, -40DEGC/+85DEGC, 0805, SMD   | CKS2125100M-T                                   | TAIYO YUDEN            | 03-06514    |
|             | 27 L2 L3                                   | 2        | 2.4nH                 | INDUCTOR, CHIP, 2.4nH, -0.3nH/+0.3nH, 0.3A, -55DEGC/+125DEGC, 0402, SMD  | LQG15HS2N4S02D                                  | MURATA                 | 03-06515    |
|             | 28 P1                                      | 1        | BB02-BS101-KA8-025B00 | CONNECTOR, HEADER, MALE, 2 ROWS, 10 PINS, PITCH 1.27mm, SMD  | BB02-BS101-KA8-025B00                           | GRADCONN               | 06-03298    |
|             | 29 Q1                                      | 1        | BC846B                | TRANSISTOR, BIPOLAR NPN, 65V, 0.1A, 0.25W, SOT-23, SMD   | BC846B,215                                      | NXP                    | 16-00000    |
|             | 30 R1                                      | 1        | 100k                  | RESISTOR, THICK FILM, 100k, -5%/+5%, 0.063W, 50V, -55DEGC/+155DEGC, 0402, SMD  | RESISTOR_0402_100k_+/-5%_50V_0.063W_M_+/-200PPM | MANUFACTURER SELECTION | 01-11708    |
|             | 31 R2 R3 R4 R5 R7 R17 R18                  | 7        | 10k                   | RESISTOR, THICK FILM, 10K, -5%/+5%, 0.05W, 30V, -55DEGC/+125DEGC, 0201, SMD  | RESISTOR_0201_10k_+/-5%_30V_0.05W_M_+/-200ppm   | MANUFACTURER SELECTION | 01-17546    |
|             | 32 R6                                      | 1        | 200k                  | RESISTOR, THICK FILM, 200K, -1%/+1%, 0.05W, 30V, -55DEGC/+125DEGC, 0201, SMD   | CRCW0201200KFKED                                | VISHAY DALE            | 01-03399    |
|             | 33 R8                                      | 1        | 5.1                   | RESISTOR, THICK FILM, 5R1, -5%/+5%, 0.05W, 25V, -55DEGC/+125DEGC, 0201, SMD  | RMC1/205R1JPA                                   | KAMAYA                 | 01-00444    |
|             | 34 R10                                     | 1        | 680                   | RESISTOR, THICK FILM, 680, -5%/+5%, 0.063W, 50V, -55DEGC/+155DEGC, 0402, SMD   | RESISTOR_0402_680_+/-5%_50V_0.063W_M_+/-200PPM  | MANUFACTURER SELECTION | 01-11656    |
|             | 35 R11 R31 R32                             | 3        | 0                     | RESISTOR, THICK FILM, 0, -1%/+1%, 0.05W, 30V, -55DEGC/+155DEGC, 0201, SMD  | RESISTOR_0201_0_+/-1%_30V_0.05W_M_+/-100PPM     | Manufacturer selection | 01-02467    |
|             | 36 R16 R50                                 | 2        | 2.2k                  | RESISTOR, THICK FILM, 2K2, -5%/+5%, 0.05W, 30V, -55DEGC/+125DEGC, 0201, SMD  | CRCW02012K20JNED                                | VISHAY                 | 01-04180    |
|             | 37 R21 R22                                 | 2        | 270                   | RESISTOR, THIN FILM, 270, -5%/+5%, 0.0625W, 50V, -55DEGC/+125DEGCC, 0402, SMD  | RESISTOR_0402_270_+/-1%_50V_0.063W_M_+/-200PPM  | MANUFACTURER SELECTION | 01-01090    |
|             | 38 R23                                     | 1        | DNM                   | RESISTOR, DO NOT MOUNT, 0402, SMD  | DNM   | DO NOT MOUNT           | 01-02472    |
|             | 39 R27                                     | 1        | 150                   | RESISTOR, THICK FILM, 150, -5%/+5%, 0.063W, 50V, -55DEGC/+155DEGC, 0402, SMD   | RESISTOR_0402_150_+/-5%_50V_0.063W_M_+/-200PPM  | MANUFACTURER SELECTION | 01-11640    |
|             | 40 R28                                     | 1        | 100k                  | RESISTOR, THICK FILM, 100K, -5%/+5%, 0.05W, 30V, -55DEGC/+125DEGC, 0201, SMD   | RESISTOR_0201_100k_+/-5%_30V_0.05W_M_+/-200PPM  | MANUFACTURER SELECTION | 01-17537    |
|             | 41 SW1 SW2                                 | 2        | MTA2-WNC              | SWITCH, TACT SWITCH, RIGHT ANGLE, 0.05A@12VDC, SMD   | MTA2-WNC-V-T/R                                  | DIPTRONICS             | 08-00142    |
|             | 42 SW3                                     | 1        | MK24-A                | SWITCH, OTHER, REED SENSOR, SPST-NO, PULL-IN:23AT TO 50AT, 0.3A@60V, 0.3A, 60V, SMD  | MK24-A-3  | MEDER                  | 08-00137    |
|             | 43 U1                                      | 1        | CC2650F128RGZR        | IC, DIGITAL, TEXAS INSTRUMENTS CUSTOM 26xx, QFN48, SMD   | CC2650F128RGZR                                  | TEXAS INSTRUMENTS      | 18-28499    |
|             | 44 U2                                      | 1        | TPS22910AYZV          | IC, ANALOG, LOW ON-RESISTANCE LOAD SWITCH WITH CONTROLLED TURN-ON, ENABLE:ACTIVE LOW, 1.4V TO 5.5V, DSBGA4, SMD                | TPS22910AYZVR                                   | TEXAS INSTRUMENTS      | 18-29653    |
|             | 45 U3                                      | 1        | BMP280                | IC, TRANSDUCER PRESSURE, 300 to 110 hPa, 1.71V TO 3.6V, LGA8, SMD  | BMP280  | BOSCH                  | 18-28617    |
|             | 46 U4                                      | 1        | TMP007                | IC, TRANSDUCER, INFRARED THERMOPILE SENSOR, 2.5V TO 5.5V, DSBGA8, SMD  | TMP007AIYZFR                                    | TEXAS INSTRUMENTS      | 18-29441    |
|             | 47 U6                                      | 1        | SPH0641LU4H           | IC, DIGITAL, MICROPHONE WITH MULTIPLE PERFORMANCE MODE, 1.62V TO 3.6V, SMD   | SPH0641LU4H                                     | KNOWLES                | 18-28648    |
|             | 48 U7                                      | 1        | OPT3001               | IC, ANALOG, OPT3001, SON6, SMD   | OPT3001   | TEXAS INSTRUMENTS      | 18-28621    |
|             | 49 U8                                      | 1        | MPU-9250              | IC, TRANSDUCER, 3-AXIS ACCELEROMETER, 3-AXIS GYROSCOPE, 2.4V TO 3.6V, QFN24, SMD   | MPU-9250  | INVENSENSE             | 18-29442    |
|             | 50 U9                                      | 1        | HDC1000YPA            | IC, TRANSDUCER, LOW POWER, HIGH ACCURACY DIGITAL HUMIDITY SENSOR WITH INTEGRATED TEMPERATURE SENSOR, 2.7V TO 5.5V, DSBGA8, SMD | HDC1000YPAR                                     | TEXAS INSTRUMENTS      | 18-31481    |
|             | 51 U10                                     | 1        | W25X40CLUXI           | IC, MEMORY, DUAL SPI, 4Mbit SERIAL FLASH, 2.3V TO 3.6V, USON-8, SMD  | W25X40CLUXIG                                    | WINBOND                | 18-31620    |
|             | 52 Y1                                      | 1        | 32.768kHz             | CRYSTAL, RESONATOR, 32.768kHz, -20PPM/+20PPM, -40DEGC/+85DEGC, SMD   | FC-135 32.7680KA-AG0                            | EPSON                  | 12-00546    |
|             | 53 Y2                                      | 1        | 24MHz                 | CRYSTAL, CRYSTAL OSCILLATOR, 24MHz, -15PPM/DEGC/+15PPM/DEGC, -40DEGC/+85DEGC, SMD  | TSX-3225 24.0000MF15X-AC3                       | EPSON                  | 12-00757    |