

# Parts List

## 515720-0001R

ASSY,DUAL ANTENNA LF-LF TRANSPONDER

SUBA

|          |            |               |
|----------|------------|---------------|
| Type     | PL         | PCB Package   |
| Revision | A          | ION Footprint |
| Status   | U          | Package Qty 1 |
| Date     | 11/11/2011 | Bin Loc.      |
| By       |            | SUBA          |

| Item | Qty<br>Unit | Part Number   | Type<br>Rev | Title<br>Detail                                 | Reference                                |
|------|-------------|---------------|-------------|---|--|
|      |             | ION Footprint |             | Mfr P/N   | Mfr Name                                 |
| 1    | 1<br>each   | 515721-0001R  | DWG<br>A    | PWB,DUAL ANTENNA LF-LF TRANSPONDER              |  |
| 2    | 1<br>each   | 515722-0001   | DOC<br>A    | LOGIC,DUAL ANTENNA LF-LF TRANSPONDER            |  |
| 5    | 1<br>each   | 103904-0001R  | PS          | IC,TSSOP44,RFID CONTROLLER<br>TMS37F128D3       | U1<br>Texas Instruments                  |
| 6    | 2<br>each   | 103903-0001R  | PS          | IC,TSSOP14,QUAD BUFFER GATE<br>SN74HC126PWR     | U7, U8<br>Texas Instruments              |
| 7    | 1<br>each   | 103902-0001R  | PS          | IC,SOT23-5,SINGLE INVERTER<br>MC74HC1G00DTT1G   | U6<br>ON Semiconductor                   |
| 10   | 4<br>each   | 103901-0001R  | PS          | TRANSISTOR,SMT,MOSFET,20V<br>SI5513CDC-T1-GE3   | U2, U3, U4, U5<br>Vishay Intertechnology |
| 11   | 3<br>each   | 103898-0001R  | PS          | TRANSISTOR,SMT,MOSFET,240V,300mA<br>ZVN4424ZTA  | Q1, Q2, Q3<br>Diodes, Inc.               |
| 12   | 1<br>each   | 102376-0001R  | PS          | TRANSISTOR,SOT23,MOSFET,N-CHANNEL<br>BSS123-7-F | Q4<br>Diodes, Inc.                       |
| 15   | 1<br>each   | 103130-0004R  | PS          | RESONATOR,SMT,4MHz<br>CSTCR4M00G53-R0           | Y1<br>Murata Electronics                 |

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|      |             | ION Footprint                        |             | Mfr P/N  | Mfr Name  |
| 20   | 1<br>each   | 100890-0001R<br><br>led603-35x45-rev | PS          | LED,0603,RED,10mA,STANDARD BRIGHTNESS<br>LNJ208R8ARA   | D1<br><br>Panasonic                             |
| 21   | 3<br>each   | 103897-0001R<br><br>d0603-24x32      | PS          | DIODE,SMT,SCHOTTKY BARRIER,200mA<br>CDBU0245           | D2, D3, D4<br><br>Comchip Technology            |
| 22   | 1<br>each   | 103890-0001R<br><br>ind-00-6115-16   | PS          | ANTENNA,SMT,4.7mH<br>00 6115 30                        | A1<br><br>NEOSID                                |
| 23   | 1<br>each   | 103891-0001R<br><br>ind-00-6115-16   | PS          | ANTENNA,SMT,2.47mH<br>00 6115 16                       | A2<br><br>NEOSID                                |
| 24   | 1<br>each   | 100063-0001R                         | PS          | BATTERY,LITHIUM,COIN,3V,180mAH<br>CR2032               | XB1<br><br>Panasonic                            |
| 25   | 1<br>each   | 103894-0682R<br><br>c7343-84x118     | PS          | CAP,TANT,SMT 2816,680uF,6.3V,20%<br>293D687X06R3E2TE3  | C5<br><br>Vishay Intertechnology                |
| 26   | 3<br>each   | 103974-1473R<br><br>c603-35x45       | PS          | CAP,CER,SMT 0805,470pF,5%,C0G,200V<br>C0805C471J2GACTU | C7, C8, C9<br><br>Kemet Electronics Corporation |
| 27   | 3<br>each   | 103983-1564R<br><br>c603-35x45       | PS          | CAP,CER,SMT 0603,56pF,250V,+/-5%,NPO<br>251R14S560JV4T | C11, C12, C13<br><br>Johanson Technology Inc    |
| 28   | 3<br>each   | 103896-1334R<br><br>c603-35x45       | PS          | CAP,CER,SMT 0603,33pF,250V,+/-2%,NPO<br>251R14S330GV4T | C21, C22, C23<br><br>Johanson Technology Inc    |
| 29   | 3<br>each   | 103893-1223R<br><br>c603-35x45       | PS          | CAP,CER,SMT 0603,220pF,50V,+/-1%,NPO<br>06035A221FAT2A | C1, C2, C3<br><br>AVX Corporation               |

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| 30   | 1<br>each   | 100994-1222R<br>c603-35x45       | PS          | CAP,CER,SMT 0603,2200pF,16V,+/-10%,X7R<br>0603YC222KAT2A    | C17<br>AVX Corporation                              |
| 31   | 3<br>each   | 103896-1103R<br>c603-35x45       | PS          | CAP,CER,SMT 0603,100pF,250V,+/-2%,NPO<br>251R14S101GV4T     | C18, C19, C20<br>Johanson Technology Inc            |
| 32   | 1<br>each   | 103816-1470R<br>c603-35x45       | PS          | CAP,CER,SMT 0603,.47uF,25V,+/-10%,X7R<br>GRM188R71E474KA12D | C4<br>Murata Electronics                            |
| 33   | 1<br>each   | 103497-1220R<br>c603-35x45       | PS          | CAP,CER,SMT 0603,.22uF,16V,+/-10%,X7R<br>C1608X7R1C224K     | C6<br>TDK Corporation                               |
| 34   | 1<br>each   | 100993-1101R<br>c603-35x45       | PS          | CAP,CER,SMT 0603,.01uF,50V,+/-10%,X7R<br>06035C103KAT2A     | C10<br>AVX Corporation                              |
| 40   | 1<br>each   | 100642-1004R<br>r603-35x45       | PS          | RES,SMT 0603,100K OHM,1%,1/16 WATT<br>RC0603FR-07100KL      | R1<br>Yageo   |
| 41   | 9<br>each   | 100642-4703R<br>r603-35x45       | PS          | RES,SMT 0603,47K OHM,1%,1/16 WATT<br>RC0603FR-0747KL        | R10, R11, R12, R14,<br>R19, R2, R3, R7, R9<br>Yageo |
| 42   | 2<br>each   | 100642-1003R<br>r603-35x45       | PS          | RES,SMT 0603,10K OHM,1%,1/16 WATT<br>ERJ-3EKF1002V          | R18, R8<br>Panasonic                                |
| 43   | 1<br>each   | 100642-5101R<br>r603-35x45       | PS          | RES,SMT 0603,510 OHM,1%,1/16 WATT<br>ERJ-3EKF5100V          | R13<br>Panasonic                                    |
| 50   | 2<br>each   | 100679-5103R<br>rpak8-31p5-yc164 | PS          | RES,NETWORK,SMT,8 PIN,4 RES,51K,5%,1/16<br>YC164-JR-0751KL  | R15, R16<br>Yageo                                   |

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|      |             | ION Footprint                        |             | Mfr P/N  | Mfr Name   |
| 55   | 2<br>each   | 103900-0001R<br><br>sw-b3u-1000p     | PS          | SWITCH,SMT,MOMENTARY,MINIATURE<br>B3U-1000P            | S1, S2<br><br>Omron Electronics, Inc.                            |
| 60   | 1<br>each   | 100115-0001R<br><br>tp1-6040         | PL          | HEADER,1 X 1,VERTICAL,PIN                              | G1   |
| 61   | 1<br>each   | 103376-0003R<br><br>hdr1x3_1p27      | PL          | HEADER,3 X 1,VERTICAL,PIN,.05" PITCH                   | JP1  |
| 62   | 1<br>each   | 103376-0004R<br><br>hdr1x4_1p27      | PL          | HEADER,4 X 1,VERTICAL,PIN,.05" PITCH                   | JP2  |
| 63   | 2<br>each   | 103248-0003R                         | PL          | HEADER,3 X 2,VERTICAL,PIN,.05" PITCH                   | TP6_TP10_TP1_TP2_T<br>P12_TP13,<br>TP8_TP7_TP3_TP4_TP<br>11_TP14 |
| 64   | 1<br>each   | 103248-0001R                         | PL          | HEADER,1 X 2,VERTICAL,PIN,.05" PITCH                   | TP5_TP9  |
| 66   | 1<br>each   | 100116-0004R<br><br>hdr2x4-6040      | PL          | HEADER,4 X 2,VERTICAL,PIN                              | J2   |
| 68   | 1<br>each   | 100116-0007R<br><br>JUMP2X7-6040     | PL          | HEADER,7 X 2,VERTICAL,PIN<br>2011-2X07G00SB/SN         | J1<br><br>Oupiin   |
| 70   | 1<br>each   | 103892-0001R<br><br>batthold-hld-001 | PS          | BATTERY HOLDER,SMT,FOR CR2032 COIN CELL<br>BAT-HLD-001 | B1<br><br>Linx Technologies Inc                                  |
| 75   | 3<br>each   | R0603-NOPOP<br><br>r603-35X45        | PS          |  | R4, R5, R6   |

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| 76   | 12<br>each  | TP-20RD10-NO-POP | PS          |                 | TP15, TP16, TP17,<br>TP18, TP19, TP20,<br>TP21, TP22, TP23,<br>TP24, TP25, TP26 |
|      |             | tp-20RD10        |             |                 |   |
| 77   | 3<br>each   | C0603-NOPOP      | PS          |                 | C14, C15, C16   |
|      |             | c603-35x45       |             |                 |   |