

# Parts List

## 511140-0001M

ASSY,DA830 DSK 256 BGA FOR MANUAL

|          |    |               |
|----------|----|---------------|
| Type     | PL | PCB Package   |
| Revision | B  | ION Footprint |
| Status   | U  | Package Qty   |
| Date     |    | Bin Loc.      |
| By       |    | Product Class |

| Item | Qty Unit | Part Number  | Type Rev | Title Detail                                                       | Reference |                             |
|------|----------|--------------|----------|--------------------------------------------------------------------|-----------|-----------------------------|
|      |          | PCB Package  |          | ION Footprint                                                      | Cost      | Mfr P/N                     |
| 1    | 1 each   | 511141-0001R | DWG B    | PWB,DA830 DSK 256 BGA<br>CSTM                                      |           |                             |
| 2    | 1 each   | 511142-0001  | DOC B    | LOGIC,DA830 DSK 256 BGA<br>SCH                                     |           |                             |
| 4    | 1 each   | 102850-0001R | PS       | IC,BGA256,DIGITAL AUDIO SYSTEM-ON-CHIP<br>MATL                     | U1        | TMX320DA830K011XZKB<br>-300 |
|      |          | BGA16X16-1MM |          |                                                                    |           |                             |
| 5    | 1 each   | 102235-0001R | PS       | IC,SO8,SERIAL EEPROM,256K-BIT<br>MATL                              | U27       |                             |
|      |          | SO8WN        |          | Replaced 101025-0001R. Backwards compatible.<br>so8-25x75-295 0.68 |           | CAT24C256WI-G               |
| 6    | 1 each   | 102801-0001R | PS       | IC,SO16,SERIAL FLASH MEMORY,32MEG<br>MATL                          | U23       |                             |
|      |          | SOL16        |          | so16-25x75-300                                                     |           | W25X32VSFIG                 |
| 8    | 2 each   | 102799-0006R | PS       | IC,BGA,SDRAM,256MEG,6nS<br>MATL                                    | U21, U22  |                             |
|      |          |              |          | bga54-3x9-issi                                                     |           | IS42S16160D-6BL             |
| 9    | 1 each   | 102795-0001R | PS       | IC,PQFP128,INTEGRATED 3-PORT 10/100<br>MATL                        | U41       |                             |
|      |          | TI_PQFP128   |          | pqfp128rec-12x70                                                   |           | KSZ8893MQL                  |
| 10   | 2 each   | 102693-0001R | PS       | IC,TSSOP56,74CBTLV16212,LOW VOLTAGE,<br>MATL                       | U31, U8   |                             |
|      |          | TSSOP56      |          | dgg56-12x80                                                        |           | SN74CBTLV16212GR            |
| 13   | 1 each   | 102800-0001R | PS       | IC,PQFP,STEREO AUDIO CODEC,LOW POWER<br>MATL                       | U38       |                             |
|      |          | PQFP48-RGZ   |          | rgz48-11x34                                                        |           | TLV320AIC3106IRGZT          |
| 16   | 2 each   | 101679-0001R | PS       | IC,TSSOP24,10-BIT FET BUS SWITCH,LOW<br>MATL                       | U24, U3   |                             |
|      |          | SO24PWA      |          | pw24-14x70 0.21                                                    |           | 74CBTLV3384PWRE4            |
| 17   | 1 each   | 101691-0001R | PS       | IC,TSSOP16,RS-232 DRIVER/RECEIVER<br>MATL                          | U28       |                             |
|      |          | TSSOP16      |          | pw16-14x70 0.63                                                    |           | MAX3221CPWRG4               |
| 18   | 2 each   | 101433-0001R | PS       | IC,TSSOP16,MULTIPLEXER/DEMULTIPLEXER<br>MATL                       | U12, U19  |                             |
|      |          | TSSOP16      |          | tssop16-14x70                                                      |           | SN74CBTLV3253PWR            |

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|      |             | PCB Package  |             | ION Footprint                                    | Cost                                                 | Mfr P/N           |
| 20   | 2<br>each   | 102810-0001R | PS          | IC,SO8,POWER DISTRIBUTION<br>MATL                | U13, U14                                             |                   |
|      |             | SO8          |             | so8-25x75                                        |                                                      | TPS2065DR         |
| 21   | 1<br>each   | 100962-0001R | PS          | IC,SO8,POWER AMPLIFIER,1W<br>MATL                | U40                                                  |                   |
|      |             | SO8          |             | so8-25x75                                        |                                                      | TPA4861DR         |
| 22   | 4<br>each   | 101027-0001R | PS          | IC,SO5,SINGLE SCHMITT-TRIGGER INVERTER<br>MATL   | U37, U51, U52, U53                                   |                   |
|      |             | DCK5         |             | dck-5                                            | 0.051                                                | SN74AHC1G14DCKRG4 |
| 23   | 2<br>each   | 101057-0002R | PS          | IC,SO5,SINGLE NOR-GATE<br>MATL                   | U30, U7                                              |                   |
|      |             | DCK5         |             | dck-5                                            |                                                      | SN74LVC1G02DCKR   |
| 24   | 1<br>each   | 101057-0004R | PS          | IC,SO5,SINGLE INVERTER GATE<br>MATL              | U57                                                  |                   |
|      |             | DCK5         |             | dck-5                                            | 0.06                                                 | SN74LVC1G04DCKRG4 |
| 25   | 3<br>each   | 101689-0125R | PS          | IC,SO5,SINGLE BUS BUFFER GATE<br>MATL            | U15, U43, U59                                        |                   |
|      |             | DCK5         |             | dck-5                                            | 0.135                                                | 74CBTLV1G125CRG4  |
| 26   | 4<br>each   | 101057-0032R | PS          | IC,SO5,SINGLE 2-INPUT POSITIVE-OR GATE<br>MATL   | U20, U25, U35, U4                                    |                   |
|      |             | DCK5         |             | dck-5                                            | 0.051                                                | SN74LVC1G32DCKRG4 |
| 27   | 5<br>each   | 101057-0008R | PS          | IC,SO5,SINGLE 2-INPUT POSITIVE AND GATE<br>MATL  | U29, U46, U47, U49, U6                               |                   |
|      |             | DCK5         |             | dck-5                                            | 0.052                                                | SN74LVC1G08DCKRG4 |
| 28   | 1<br>each   | 102636-0001R | PS          | IC,SO5,REGULATOR,LOW<br>MATL                     | U54                                                  |                   |
|      |             | DBV5         |             | sot23-20x60-5                                    | 0.58                                                 | TPS79901DDCR      |
| 29   | 2<br>each   | 101057-0001R | PS          | IC,SO5,2 INPUT POSITIVE NAND GATE<br>MATL        | U26, U5                                              |                   |
|      |             | DCK5         |             | dck-5                                            | 0.075                                                | SN74LVC1G00DCKRG4 |
| 31   | 2<br>each   | 102566-0001R | PS          | IC,SMT,PROTECTION ARRAY,6-CHANNEL 115-kV<br>MATL | U32, U33                                             |                   |
|      |             | PQFP10       |             | rse10                                            | 0.29                                                 | TPD6E001RSER      |
| 32   | 2<br>each   | 102728-0001R | PS          | IC,SMT,PROTECTION ARRAY,2-CHANNEL 15-kV<br>MATL  | U55, U56                                             |                   |
|      |             | DRL5         |             | drl5-12x40                                       | 0.1992                                               | TPD2E001DRLR      |
| 33   | 10<br>each  | 101670-0001R | PS          | IC,QSOP16,LOW VOLTAGE,QUAD 2:1<br>MATL           | U10, U11, U16, U17,<br>U18, U2, U34, U36, U58,<br>U9 |                   |
|      |             | TSSOP16      |             | tssop16-14x70                                    | 0.17                                                 | 74CBTLV3257PWRG4  |

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|------|-------------|--------------|-------------|-------------------------------------------------|---------------------------------------------------------------------------------------|------------------------|
|      |             | PCB Package  |             | ION Footprint                                   | Cost                                                                                  | Mfr P/N                |
| 34   | 1<br>each   | 102746-0001R | PS          | IC,QFN40,POWER MANAGEMENT IC FOR LI-ION<br>MATL | U44                                                                                   |                        |
|      |             | RSB40        |             | rsb40-9x39                                      |                                                                                       | TPS65023RSBR           |
| 41   | 3<br>each   | 102020-0009R | PS          | IC,DBV6,SUPERVISORY CIRCUIT,.9V<br>MATL         | U45, U48, U50                                                                         |                        |
|      |             | DBV6         |             | DBV6-27X39-6                                    | 0.875                                                                                 | TPS3808G09DBVRG4       |
| 51   | 1<br>each   | 102201-2457R | PS          | OSC,SMT,24.576 MHZ,3.3V<br>MATL                 | U39                                                                                   |                        |
|      |             | OSC-F4100A   |             | xtal4-70x78-ctx                                 |                                                                                       | CSX750FBC24.576000M-UT |
| 52   | 1<br>each   | 100983-0050R | PS          | OSC,SMT,50 MHZ<br>MATL                          | U42                                                                                   |                        |
|      |             | CB3LV        |             | OSC4-71X79                                      | 0.74                                                                                  | CB3LV-3C-50.0000-T     |
| 61   | 2<br>each   | 102109-0001R | PS          | TRANSISTOR,SOT23,SWITCHING<br>MATL              | Q1, Q2                                                                                |                        |
|      |             | SOT23-NPN    |             | sot23-28x44                                     | 0.019                                                                                 | FJV3109RMTF            |
| 62   | 1<br>each   | 101808-0006R | PS          | TRANSORB,SMC,UNI-DIRECTIONAL,1500W,6V<br>MATL   | D1                                                                                    |                        |
|      |             | SMC          |             | SMC-80X128                                      | 0.225                                                                                 | SMCJ6.0A-13-F          |
| 70   | 1<br>each   | 101940-0032R | PS          | CRYSTAL,SMT,32.768kHz<br>MATL                   | Y1                                                                                    |                        |
|      |             | SSP-T6       |             | xtal3-ssp-t6                                    | 0.63                                                                                  | SSP-T6                 |
| 71   | 1<br>each   | 101590-0240R | PS          | CRYSTAL,SMT,6mm,24 MHZ<br>MATL                  | Y2                                                                                    |                        |
|      |             | ABM7         |             | xtal2-75x94                                     | 0.563                                                                                 | CS10-24.000MABJ-UT     |
| 77   | 1<br>each   | 100185-0001R | PS          | DIODE,SOT23,SWITCHING<br>MATL                   | D21                                                                                   |                        |
|      |             | SOT23-B      |             | SOT23-28X44                                     | 0.01                                                                                  | BAS16-7-F              |
| 78   | 9<br>each   | 100823-0001R | PS          | LED,SMT 1206,GREEN<br>MATL                      | DS1, DS2, DS3, DS4,<br>DS5, DS6, DS7, DS8,<br>DS9                                     |                        |
|      |             | EIA1206D     |             | led1206-59x59                                   | 0.03                                                                                  | LTST-C150GKT           |
| 80   | 2<br>each   | 101858-1201R | PS          | FERRITE BEAD,SMT 0603,120 OHM<br>MATL           | L593, L594                                                                            |                        |
|      |             | EIA0603      |             | l603-35x45                                      | 0.0163                                                                                | BLM18AG121SN1D         |
| 82   | 17<br>each  | 101228-2201R | PS          | FERRITE BEAD,SMT 0805,220 OHMS<br>MATL          | L1, L10, L11, L12, L13,<br>L14, L19, L2, L20, L21,<br>L22, L23, L5, L6, L7, L8,<br>L9 |                        |
|      |             | EIA0805      |             | l805-35x60                                      | 0.017                                                                                 | BLM21PG221SN1D         |
| 83   | 1<br>each   | 101126-0001R | PS          | FERRITE BEAD,SMT 1806,75 OHMS<br>MATL           | L15                                                                                   |                        |
|      |             | SMTIND       |             | FB1806-41X70                                    | 0.075                                                                                 | BLM41PG750SN1L         |

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|      |             | PCB Package     |             | ION Footprint                               | Cost                                                                                                                                                              | Mfr P/N           |
| 84   | 6<br>each   | 102569-1470R    | PS          | FILTER,SMT 0805,EMI,.47uF,16V<br>MATL       | E1, E2, E3, E4, E6, E7                                                                                                                                            |                   |
|      |             | NFM21           |             | emi-NFM21p                                  | 0.071                                                                                                                                                             | NFM21PC474R1C3D   |
| 90   | 3<br>each   | 102747-0220R    | PS          | INDUCTOR,SMT,2.2uH,+/-30%<br>MATL           | L16, L17, L18                                                                                                                                                     |                   |
|      |             | IND-VLCF4020    |             | ind_vlcf                                    | 0.595                                                                                                                                                             | VLCF4020T-2R2N1R7 |
| 91   | 2<br>each   | 101584-0100R    | PS          | INDUCTOR,SMT 0805,1uH<br>MATL               | L3, L4                                                                                                                                                            |                   |
|      |             | EIA0805         |             | L805-35x60                                  | 0.33                                                                                                                                                              | CI0805-1R0K-R     |
| 95   | 1<br>each   | 100872-0004R    | PS          | FUSE,SMT,OMNI-BLOK,4A<br>MATL               | F1                                                                                                                                                                |                   |
|      |             | F-SMF-OMNI-BLOK |             | FUSEFOLDER-OMNI-BL<br>OK                    | 1.074                                                                                                                                                             | 154004T           |
| 100  | 2<br>each   | 100995-0471R    | PS          | CAP,TANT,SMT 2816,47uF,10V<br>MATL          | C214, C259                                                                                                                                                        |                   |
|      |             | EIA2816P        |             | c7343-84x118                                | 0.12                                                                                                                                                              | T491D476K010AT    |
| 101  | 3<br>each   | 101608-0102R    | PS          | CAP,TANT,SMT 2816,100uF,10V<br>MATL         | C16, C203, C29                                                                                                                                                    |                   |
|      |             | EIA2816P        |             | c7343-84x118                                | 0.15                                                                                                                                                              | 593D107X9010D2TE3 |
| 102  | 1<br>each   | 102359-0680R    | PS          | CAP,TANT,SMT 1206,6.8uF,10V,+/-20%<br>MATL  | C14                                                                                                                                                               |                   |
|      |             | EIA1206P        |             | C1206-40X70                                 | 0.081                                                                                                                                                             | TCA1A685M8R       |
| 105  | 10<br>each  | 101953-0331R    | PS          | CAP,TANT,SMT 1206,33uF,6.3V,LOW ESR<br>MATL | C100, C101, C102,<br>C103, C168, C169, C69,<br>C70, C71, C72                                                                                                      |                   |
|      |             | EIA1206P        |             | c1206-40x70p                                | 0.085                                                                                                                                                             | TPSA336K006R0600  |
| 106  | 24<br>each  | 101003-0101R    | PS          | CAP,TANT,SMT 1206,10uF,6.3V<br>MATL         | C128, C13, C141, C150,<br>C155, C162, C173,<br>C174, C201, C202,<br>C211, C212, C217,<br>C220, C221, C227,<br>C231, C234, C238,<br>C240, C244, C260,<br>C262, C28 |                   |
|      |             | EIA1206P        |             | c1206-40x70-POL                             | 0.035                                                                                                                                                             | T491A106M006AT    |
| 110  | 1<br>each   | 101056-0335R    | PS          | CAP,GOLD,RADIAL,.33F,5.5V<br>MATL           | C607                                                                                                                                                              |                   |
|      |             | RAD400-400C     |             | c393-6545-H                                 | 0.529                                                                                                                                                             | EECS0HD334H       |
| 115  | 3<br>each   | 101583-1102R    | PS          | CAP,CER,SMT 1812,1000pF,X7R,2KV<br>MATL     | C226, C230, C239                                                                                                                                                  |                   |
|      |             | EIA1812         |             | EIA1812                                     | 0.12                                                                                                                                                              | 1812GC102KAT1A    |
| 116  | 9<br>each   | 101064-0221R    | PS          | CAP,CER,SMT 1206,22uF,10V<br>MATL           | C104, C105, C114,<br>C115, C183, C236,<br>C237, C241, C242                                                                                                        |                   |
|      |             | EIA1206         |             | C1206-40X70                                 | 0.029                                                                                                                                                             | LMK316F226ZL-T    |

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|      |             | PCB Package             |             | ION Footprint                                                | Cost                                                                        | Mfr P/N            |
| 120  | 1<br>each   | 101002-1224R<br>EIA0603 | PS          | CAP,CER,SMT 0603,22pF,50V,+/-5%,NPO<br>MATL<br>c603-35x45    | C50<br>0.005                                                                | ECJ-1VC1H220J      |
| 121  | 3<br>each   | 100993-1223R<br>EIA0603 | PS          | CAP,CER,SMT 0603,220pF,50V,+/-10%,X7R<br>MATL<br>c603-35x45  | C161, C167, C171<br>0.01                                                    | 06035C221KAT2A     |
| 122  | 2<br>each   | 101007-0220R<br>EIA0603 | PS          | CAP,CER,SMT 0603,2.2uF,6.3V,X5R,+/-10%<br>MATL<br>c603-35x45 | C243, C245<br>0.026                                                         | ECJ-1VB0J225K      |
| 123  | 11<br>each  | 101007-0100R<br>EIA0603 | PS          | CAP,CER,SMT 0603,1uF,6.3V,X5R,+/-10%<br>MATL<br>c603-35x45   | C127, C133, C134,<br>C135, C136, C160, C20,<br>C24, C34, C38, C52<br>0.0058 | ECJ-1VB0J105K      |
| 124  | 5<br>each   | 101103-1184R<br>EIA0603 | PS          | CAP,CER,SMT 0603,18pF,50V,+/-5%,NPO<br>MATL<br>c603-35x45    | C179, C46, C47, C48,<br>C49<br>0.007                                        | ECJ-1VC1H180J      |
| 125  | 4<br>each   | 101001-1104R<br>EIA0603 | PS          | CAP,CER,SMT 0603,10pF,50V,+/-5pF,NPO<br>MATL<br>c603-35x45   | C129, C130, C131, C132<br>0.003                                             | ECJ-1VC1H100D      |
| 126  | 6<br>each   | 101007-1470R<br>EIA0603 | PS          | CAP,CER,SMT 0603,.47uF,6.3V,X5R,+/-10%<br>MATL<br>c603-35x45 | C178, C182, C185,<br>C186, C192, C195<br>0.0098                             | ECJ-1VB0J474K      |
| 127  | 9<br>each   | 101005-1220R<br>EIA0603 | PS          | CAP,CER,SMT 0603,.22uF,10V,+/-10%,X5R<br>MATL<br>c603-35x45  | C176, C177, C180,<br>C181, C190, C191,<br>C193, C194, C27<br>0.015          | ECJ-1VB1A224K      |
| 130  | 1<br>each   | 101782-1565R<br>EIA0402 | PS          | CAP,CER,SMT 0402,5.6pF,50V,+/-25pF,NPO<br>MATL<br>c402-25    | C261<br>0.0115                                                              | GJM1555C1H5R6CB01D |

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|------------|--------------------|---------------------|-------------|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
|            |                    | PCB Package         |             | ION Footprint                                          | Cost                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Mfr P/N        |
| <b>131</b> | <b>151</b><br>each | <b>101587-1100R</b> | PS          | <b>CAP,CER,SMT 0402, .1uF,10V,+/-10%,X5R</b><br>MATL   | C1, C10, C106, C107, C108, C109, C11, C110, C111, C112, C113, C116, C117, C118, C119, C12, C120, C121, C122, C123, C124, C125, C126, C137, C138, C139, C142, C143, C145, C146, C147, C148, C149, C15, C151, C152, C153, C154, C156, C157, C158, C159, C163, C164, C165, C166, C170, C172, C175, C18, C184, C189, C2, C204, C205, C206, C207, C208, C209, C210, C213, C216, C219, C22, C222, C223, C224, C225, C228, C229, C232, C233, C235, C246, C247, C248, C249, C25, C250, C251, C252, C253, C254, C255, C256, C257, C258, C263, C264, C265, C266, C3, C30, C32, C36, C39, C4, C40, C41, C42, C43, C44, C5, C51, C54, C56, C57, C59, C6, C60, C61, C62, C63, C64, C65, C66, C67, C68, C7, C73, C74, C75, C76, C77, C78, C79, C80, C81, C82, C83, C84, C85, C86, C87, C88, C89, C9, C90, C91, C92, C93, C94, C95, C96, C97, C98, C99, C268, C269, C270, C271 |                |
|            |                    | EIA0402             |             | c402-25                                                | 0.0026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | C0402C104K8PAC |
| <b>132</b> | <b>15</b><br>each  | <b>101587-1101R</b> | PS          | <b>CAP,CER,SMT 0402, .01uF,16V,+/-10%,X7R</b><br>MATL  | C140, C187, C188, C19, C196, C197, C198, C215, C23, C33, C37, C45, C53, C58, C8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |
|            |                    | EIA0402             |             | c402-25                                                | 0.002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | C0402C103K4RAC |
| <b>133</b> | <b>6</b><br>each   | <b>102058-1102R</b> | PS          | <b>CAP,CER,SMT 0402, .001uF,50V,+/-10%,X7R</b><br>MATL | C17, C21, C218, C31, C35, C55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |
|            |                    | EIA0402             |             | c402-25                                                | 0.0022                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | C0402C102K5RAC |
| <b>140</b> | <b>8</b><br>each   | <b>101069-1000R</b> | PS          | <b>RES,NETWORK,SMT,16 PIN,8 RES,10</b><br>MATL         | RN13, RN15, RN17, RN18, RN19, RN20, RN21, RN22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |
|            |                    | EXB-2HVS            |             | rpak16-10x25-2hv                                       | 0.026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | EXB-2HV100JV   |

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| Item | Qty<br>Unit | Part Number  | Type<br>Rev | Title<br>Detail                           | Reference                                                                                                                                                                                                          |                  |
|------|-------------|--------------|-------------|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
|      |             | PCB Package  |             | ION Footprint                             | Cost                                                                                                                                                                                                               | Mfr P/N          |
| 142  | 6<br>each   | 101069-2200R | PS          | RES,NETWORK,SMT,16 PIN,8 RES,22<br>MATL   | RN10, RN11, RN12,<br>RN14, RN16, RN9                                                                                                                                                                               |                  |
|      |             | EXB-2HVS     |             | rpak16-10x25-2hv                          | 0.026                                                                                                                                                                                                              | EXB-2HV220JV     |
| 143  | 1<br>each   | 101327-1003R | PS          | RES,NETWORK,SMT,8 PIN,4 RES,10K<br>MATL   | RN23                                                                                                                                                                                                               |                  |
|      |             | EXB-28VS     |             | rpak8-10x25-28v                           | 0.007                                                                                                                                                                                                              | EXB-28V103JX     |
| 144  | 1<br>each   | 101327-1002R | PS          | RES,NETWORK,SMT,8 PIN,4 RES,1K<br>MATL    | RN24                                                                                                                                                                                                               |                  |
|      |             | EXB-28VS     |             | rpak8-10x25-28v                           | 0.0072                                                                                                                                                                                                             | EXB-28V102JX     |
| 145  | 8<br>each   | 101327-2200R | PS          | RES,NETWORK,SMT,8 PIN,4 RES,22<br>MATL    | RN1, RN2, RN3, RN4,<br>RN5, RN6, RN7, RN8                                                                                                                                                                          |                  |
|      |             | EXB-28VS     |             | rpak8-10x25-28v                           | 0.0068                                                                                                                                                                                                             | EXB-28V220JX     |
| 150  | 31<br>each  | 101370-0001R | PS          | RES,SMT 0402,0 OHM,1/16 WATT<br>MATL      | R104, R108, R141,<br>R142, R15, R176, R177,<br>R178, R190, R191,<br>R217, R220, R221,<br>R222, R229, R230,<br>R231, R232, R250,<br>R317, R343, R344,<br>R347, R380, R381,<br>R382, R383, R333,<br>R388, R389, R390 |                  |
|      |             | EIA0402      |             | r402-25                                   | 0.001                                                                                                                                                                                                              | RC0402JR-070RL   |
| 152  | 4<br>each   | 101370-1000R | PS          | RES,SMT 0402,10 OHM,5%,1/16 WATT<br>MATL  | R194, R195, R196, R197                                                                                                                                                                                             |                  |
|      |             | EIA0402      |             | r402-25                                   | 0.0011                                                                                                                                                                                                             | RC0402JR-0710RL  |
| 153  | 6<br>each   | 101370-1001R | PS          | RES,SMT 0402,100 OHM,5%,1/16 WATT<br>MATL | R376, R377, R378,<br>R379, R385, R386                                                                                                                                                                              |                  |
|      |             | EIA0402      |             | r402-25                                   | 0.0009                                                                                                                                                                                                             | RC0402JR-07100RL |
| 154  | 2<br>each   | 101370-1004R | PS          | RES,SMT 0402,100K,5%,1/16 WATT<br>MATL    | R52, R60                                                                                                                                                                                                           |                  |
|      |             | EIA0402      |             | r402-25                                   | 0.0011                                                                                                                                                                                                             | RC0402JR-07100KL |

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|            |                   | PCB Package         | ION Footprint |                                                   | Cost                                                                                                                                                                                                                                                                                                                                                     | Mfr P/N |
| <b>155</b> | <b>51</b><br>each | <b>101370-1003R</b> | PS            | <b>RES,SMT 0402,10K,5%,1/16 WATT</b><br>MATL      | R101, R110, R111,<br>R131, R132, R133,<br>R134, R135, R136,<br>R148, R149, R150,<br>R167, R168, R169,<br>R174, R175, R179,<br>R189, R218, R219,<br>R224, R273, R292,<br>R325, R326, R331,<br>R332, R338, R346,<br>R349, R353, R53, R56,<br>R61, R62, R621, R622,<br>R623, R624, R625,<br>R626, R627, R628,<br>R629, R630, R65, R387,<br>R329, R335, R363 |         |
|            |                   | EIA0402             | r402-25       | 0.001                                             | RC0402JR-0710KL                                                                                                                                                                                                                                                                                                                                          |         |
| <b>156</b> | <b>12</b><br>each | <b>101370-1002R</b> | PS            | <b>RES,SMT 0402,1K,5%,1/16 WATT</b><br>MATL       | R22, R233, R289, R291,<br>R293, R302, R303,<br>R315, R319, R341,<br>R369, R371                                                                                                                                                                                                                                                                           |         |
|            |                   | EIA0402             | r402-25       | 0.0024                                            | RC0402JR-071KL                                                                                                                                                                                                                                                                                                                                           |         |
| <b>157</b> | <b>10</b><br>each | <b>101370-2202R</b> | PS            | <b>RES,SMT 0402,2.2K OHM,5%,1/16 WATT</b><br>MATL | R113, R114, R211,<br>R225, R236, R40, R41,<br>R42, R43, R363                                                                                                                                                                                                                                                                                             |         |
|            |                   | EIA0402             | r402-25       | 0.0011                                            | RC0402JR-072K2L                                                                                                                                                                                                                                                                                                                                          |         |
| <b>158</b> | <b>21</b><br>each | <b>101370-2003R</b> | PS            | <b>RES,SMT 0402,20K,5%,1/16 WATT</b><br>MATL      | R126, R127, R128,<br>R129, R130, R185,<br>R186, R192, R193,<br>R202, R215, R24, R25,<br>R26, R35, R355, R37,<br>R67, R70, R73, R81                                                                                                                                                                                                                       |         |
|            |                   | EIA0402             | r402-25       | 0.0011                                            | ERJ-2GEJ203X                                                                                                                                                                                                                                                                                                                                             |         |
| <b>159</b> | <b>42</b><br>each | <b>101370-2200R</b> | PS            | <b>RES,SMT 0402,22 OHM,5%,1/16 WATT</b><br>MATL   | R1, R10, R11, R12, R14,<br>R16, R209, R210, R27,<br>R29, R30, R31, R32,<br>R39, R4, R5, R6, R66,<br>R69, R7, R72, R75, R76,<br>R77, R78, R79, R8, R80,<br>R82, R86, R87, R9, R90,<br>R91, R92, R93, R94,<br>R95, R96, R97, R98,<br>R99                                                                                                                   |         |
|            |                   | EIA0402             | r402-25       | 0.001                                             | RC0402JR-0722RL                                                                                                                                                                                                                                                                                                                                          |         |
| <b>160</b> | <b>6</b><br>each  | <b>101370-2201R</b> | PS            | <b>RES,SMT 0402,220 OHM,5%,1/16 WATT</b><br>MATL  | R234, R235, R239,<br>R240, R368, R374                                                                                                                                                                                                                                                                                                                    |         |
|            |                   | EIA0402             | r402-25       | 0.0024                                            | RC0402JR-07220RL                                                                                                                                                                                                                                                                                                                                         |         |

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|------|-------------|--------------|-------------|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
|      |             | PCB Package  |             | ION Footprint                              | Cost                                                                                                                                                                                                                                                             | Mfr P/N          |
| 161  | 40<br>each  | 101370-2002R | PS          | RES,SMT 0402,2K,5%,1/16 WATT<br>MATL       | R121, R122, R123,<br>R124, R125, R137,<br>R151, R17, R18, R19,<br>R20, R206, R207, R208,<br>R248, R249, R253,<br>R254, R259, R260,<br>R263, R264, R269,<br>R271, R275, R283,<br>R286, R3, R327, R384,<br>R46, R47, R49, R50,<br>R51, R83, R84, R88,<br>R89, R268 |                  |
|      |             | EIA0402      |             | r402-25                                    | 0.0024                                                                                                                                                                                                                                                           | RC0402JR-072KL   |
| 162  | 7<br>each   | 101370-3300R | PS          | RES,SMT 0402,33 OHM,5%,1/16 WATT<br>MATL   | R112, R171, R345,<br>R352, R354, R357, R358                                                                                                                                                                                                                      |                  |
|      |             | EIA0402      |             | r402-25                                    | 0.0009                                                                                                                                                                                                                                                           | RC0402JR-0733RL  |
| 163  | 6<br>each   | 101370-3301R | PS          | RES,SMT 0402,330 OHM,5%,1/16 WATT<br>MATL  | R144, R145, R146,<br>R147, R184, R188                                                                                                                                                                                                                            |                  |
|      |             | EIA0402      |             | r402-25                                    |                                                                                                                                                                                                                                                                  | RC0402JR-07330RL |
| 164  | 9<br>each   | 101370-3601R | PS          | RES,SMT 0402,360 OHM,5%,1/16 WATT<br>MATL  | R152, R153, R21, R23,<br>R367, R370, R44, R45,<br>R48                                                                                                                                                                                                            |                  |
|      |             | EIA0402      |             | r402-25                                    | 0.0011                                                                                                                                                                                                                                                           | RC0402JR-07360RL |
| 165  | 2<br>each   | 101370-4703R | PS          | RES,SMT 0402,47K OHM,5%,1/16 WATT<br>MATL  | R187, R328                                                                                                                                                                                                                                                       |                  |
|      |             | EIA0402      |             | r402-25                                    | 0.0011                                                                                                                                                                                                                                                           | RC0402JR-0747KL  |
| 170  | 2<br>each   | 102145-2490R | PS          | RES,SMT 0402,24.9 OHM,1%,1/16 WATT<br>MATL | R223, R375                                                                                                                                                                                                                                                       |                  |
|      |             | EIA0402      |             | r402-25                                    | 0.0016                                                                                                                                                                                                                                                           | ERJ-2RKF24R9X    |
| 171  | 7<br>each   | 102145-1003R | PS          | RES,SMT 0402,10K,1%,1/16 WATT<br>MATL      | R213, R214, R226,<br>R227, R348, R351, R356                                                                                                                                                                                                                      |                  |
|      |             | EIA0402      |             | r402-25                                    | 0.0011                                                                                                                                                                                                                                                           | RC0402FR-0710KL  |
| 181  | 1<br>each   | 100687-0100R | PS          | RES,SMT 0603,1 OHM,5%,1/16 WATT<br>MATL    | R212                                                                                                                                                                                                                                                             |                  |
|      |             | EIA0603      |             | r603-35X45                                 |                                                                                                                                                                                                                                                                  | ERJ-3RQJ1R0V     |
| 183  | 1<br>each   | 100687-1501R | PS          | RES,SMT 0603,150 OHM,5%,1/16 WATT<br>MATL  | R173                                                                                                                                                                                                                                                             |                  |
|      |             | EIA0603      |             | r603-35x45                                 | 0.0009                                                                                                                                                                                                                                                           | ERJ-3GEYJ151V    |
| 185  | 4<br>each   | 100687-5602R | PS          | RES,SMT 0603,5.6K OHM,5%,1/16 WATT<br>MATL | R180, R181, R182, R183                                                                                                                                                                                                                                           |                  |
|      |             | EIA0603      |             | r603-35x45                                 | 0.0012                                                                                                                                                                                                                                                           | ERJ-3GEYJ562V    |
| 186  | 10<br>each  | 100687-5103R | PS          | RES,SMT 0603,51K OHM,5%,1/16 WATT<br>MATL  | R154, R155, R156,<br>R157, R158, R159,<br>R160, R161, R162, R163                                                                                                                                                                                                 |                  |
|      |             | EIA0603      |             | r603-35X45                                 | 0.0013                                                                                                                                                                                                                                                           | ERJ-3GEYJ513V    |

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|      |             | PCB Package                |             | ION Footprint                                                   | Cost                                                                                            | Mfr P/N          |
| 187  | 2<br>each   | 100642-1005R<br>EIA0603    | PS          | RES,SMT 0603,1M OHM,1%,1/16 WATT<br>MATL<br>r603-35x45          | R391, R392<br><br>0.0016                                                                        | ERJ-3EKF1004V    |
| 190  | 1<br>each   | 100642-1502R<br>EIA0603    | PS          | RES,SMT 0603,1.5K OHM,1%,1/16 WATT<br>MATL<br>r603-35x45        | R172<br><br>0.0016                                                                              | ERJ-3EKF1501V    |
| 191  | 2<br>each   | 100642-1001R<br>EIA0603    | PS          | RES,SMT 0603,100 OHM,1%,1/16 WATT<br>MATL<br>r603-35x45         | R107, R290<br><br>0.0021                                                                        | RC0603FR-07100RL |
| 192  | 1<br>each   | 100642-1503R<br>EIA0603    | PS          | RES,SMT 0603,15K OHM,1%,1/16 WATT<br>MATL<br>r603-35x45         | R372<br><br>0.0016                                                                              | ERJ-3EKF1502V    |
| 194  | 1<br>each   | 100642-2214R<br>EIA0603    | PS          | RES,SMT 0603,221K OHM,1%,1/16 WATT<br>MATL<br>r603-35x45        | R373<br><br>0.0016                                                                              | ERJ-3EKF2213V    |
| 197  | 1<br>each   | 100642-3012R<br>EIA0603    | PS          | RES,SMT 0603,3.01K OHM,1%,1/16 WATT<br>MATL<br>r603-35x45       | R266<br><br>0.0016                                                                              | ERJ-3EKF3011V    |
| 200  | 1<br>each   | 100642-4992R<br>EIA0603    | PS          | RES,SMT 0603,4.99K OHM,1%,1/16 WATT<br>MATL<br>r603-35x45       | R350<br><br>0.0014                                                                              | ERJ-3EKF4991V    |
| 201  | 13<br>each  | 100642-4990R<br>EIA0603    | PS          | RES,SMT 0603,49.9 OHM,1%,1/10 WATT<br>MATL<br>r603-35x45        | R237, R238, R241,<br>R242, R243, R304,<br>R305, R306, R307,<br>R308, R309, R310, R311<br>0.0014 | ERJ-3EKF49R9V    |
| 210  | 8<br>each   | 102598-0002R<br>EIA1206    | PS          | RES,SMT 1206,.02 OHM,2%,1/2 WATT<br>MATL<br>r1206-40x70         | R100, R118, R119,<br>R120, R55, R57, R63,<br>R64<br>0.136                                       | RL1632T-R020-G   |
| 215  | 7<br>each   | 100830-0025R<br>EIA2512    | PS          | RES,SMT 2512,.025 OHM,1%,1W<br>MATL<br>R2512                    | R115, R116, R312,<br>R313, R316, R318, R323<br>0.185                                            | WSL2512R0250FEA  |
| 220  | 2<br>each   | 101184-0006R<br>SMTDIPSW6A | PS          | SWITCH,DIP,SMT,HALF-PITCH,6 POS.<br>MATL<br>SW6-30X50-TDA       | SW2, SW5<br><br>1.25                                                                            | TDA06H0SB1R      |
| 221  | 1<br>each   | 100601-0001R<br>DPDTSW     | PS          | SWITCH,PWB,DPDT,3 AMP,RIGHT ANGLE<br>MATL<br>SW-7201-DPDT-10073 | SW6<br><br>2.13                                                                                 | 7201MD9AQE       |
| 222  | 1<br>each   | 100584-0004R<br>SMTDIPSW8  | PS          | SWITCH,DIP,SMT,4 POS<br>MATL                                    | SW3<br><br>0.43                                                                                 | 219-4LPSTRP      |

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|      |          | PCB Package    |          | ION Footprint                                  | Cost           | Mfr P/N               |
| 223  | 1 each   | 101215-0001R   | PS       | SWITCH,SMT,PUSHBUTTON,MOMENTARY,6mm<br>MATL    | SW4            |                       |
|      |          | 101215         |          | SW-40X126-EVQP1                                | 0.306          | EVQ9P105M             |
| 224  | 1 each   | 102181-0002R   | PS       | SWITCH,SMT,SLIDE,2 POLE,GULL WING<br>MATL      | SW1            |                       |
|      |          | CASD20TB       |          | sw6-40x67_gw                                   | 0.875          | CAS-D20TB             |
| 230  | 1 each   | 101238-0001R   | PS       | CONN,SMT,JACK,RIGHT ANGLE,POWER,2.5mm<br>MATL  | J6             |                       |
|      |          | RASM712        |          | PWR3-RASM712                                   | 0.75           | RASM712TRP15X         |
| 231  | 1 each   | 101678-0001R   | PS       | CONN,RECEPTACLE,4 POS,RIGHT<br>MATL            | J3             |                       |
|      |          | USBTYPEA       |          | usb_a_sh                                       | 0.28           | 292303-1              |
| 232  | 1 each   | 102836-0001R   | PS       | CONN,SMT,RECEPTACLE,5 POS,RIGHT<br>MATL        | J2             |                       |
|      |          |                |          |                                                |                | ZX62-AB-5PA           |
| 241  | 1 each   | 101881-0020R   | PS       | CONN,SMT,RECEPTACLE,20x2,.8mm,HI-SPEED<br>MATL | P12            |                       |
|      |          |                |          | QSE_020                                        | 2.41           | QSE-020-01-L-D-A-K-TR |
| 242  | 2 each   | 101881-0040R   | PS       | CONN,SMT,RECEPTACLE,40x2,.8mm,HI-SPEED<br>MATL | P11, P13       |                       |
|      |          | QSE-040-01     |          | qse_040                                        | 3.68           | QSE-040-01-L-D-A-K    |
| 243  | 2 each   | 102166-0001R   | PS       | CONN,JACK,RJ45,INTEGRATED MAGNETICS<br>MATL    | P10, P9        |                       |
|      |          | HF11-2450E     |          | conn8-rt-rj45-sh-halo                          | 2.33           | HFJ11-2450E-L21RL     |
| 244  | 4 each   | 101012-0001R   | PS       | CONN,SMT,JACK,STEREO,4 POS.,3.6mm<br>MATL      | P3, P4, P5, P6 |                       |
|      |          | ST-3500        |          | st_3500                                        | 0.35           | STX-3500-4NTR         |
| 245  | 1 each   | 102710-0001R   | PS       | CONN,SMT,SD/MMC/RS-MMC<br>MATL                 | P2             |                       |
|      |          | MHC-W21-601    |          | conn-mmc-mhc-w21-601                           | 0.585          | MHC-W21-601           |
| 246  | 1 each   | 100558-0009R   | PS       | CONN,DB9,MALE,RIGHT ANGLE,318<br>MATL          | P1             |                       |
|      |          | DB9MR-1225X475 |          | CONN9D-6547-RT-M                               | 0.28           | 2100-009P             |

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| <b>247</b> | <b>46</b><br>each | <b>100115-0001R</b> | PL          | <b>HEADER,1 X 1,VERTICAL,PIN</b><br>SUBA  | TP1, TP10, TP11, TP12,<br>TP13, TP14, TP15,<br>TP16, TP17, TP18,<br>TP19, TP2, TP20, TP21,<br>TP22, TP23, TP24,<br>TP25, TP26, TP27,<br>TP28, TP29, TP30,<br>TP31, TP32, TP34,<br>TP35, TP36, TP37,<br>TP38, TP39, TP4, TP40,<br>TP5, TP6, TP7, TP8,<br>TP9, TP41, TP42, TP43,<br>TP44, TP45, TP46,<br>TP47, TP48 |
|            |                   |                     | CON1        | tp1-6040                                  |                                                                                                                                                                                                                                                                                                                   |
| <b>248</b> | <b>1</b><br>each  | <b>100115-0002R</b> | PL          | <b>HEADER,2 X 1,VERTICAL,PIN</b><br>SUBA  | J1                                                                                                                                                                                                                                                                                                                |
|            |                   |                     | CON2        | JUMP1X2-6040 0.16                         |                                                                                                                                                                                                                                                                                                                   |
| <b>249</b> | <b>1</b><br>each  | <b>100116-0007R</b> | PL          | <b>HEADER,7 X 2,VERTICAL,PIN</b><br>SUBA  | J4                                                                                                                                                                                                                                                                                                                |
|            |                   |                     | CON7X2      | JUMP2X7-6040 0.073                        |                                                                                                                                                                                                                                                                                                                   |
| <b>250</b> | <b>1</b><br>each  | <b>100116-0010R</b> | PL          | <b>HEADER,10 X 2,VERTICAL,PIN</b><br>SUBA | J5                                                                                                                                                                                                                                                                                                                |
|            |                   |                     | CON10X2     | JUMP2X10-6040                             |                                                                                                                                                                                                                                                                                                                   |
| <b>260</b> | <b>15</b><br>each | <b>NO-POP</b>       | PS          | NP                                        | P14, P15, P8, PTP1,<br>PTP10, PTP2, PTP3,<br>PTP4, PTP5, PTP6,<br>PTP7, PTP8, PTP9,<br>TP33, Y3                                                                                                                                                                                                                   |
|            |                   |                     | NO-POP      |                                           |                                                                                                                                                                                                                                                                                                                   |
| <b>265</b> | <b>2</b><br>each  | <b>C0603-NOPOP</b>  | PS          | NP                                        | C199, C200                                                                                                                                                                                                                                                                                                        |
|            |                   |                     | EIA0603     | c603-35x45                                |                                                                                                                                                                                                                                                                                                                   |

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|------------|-------------------|--------------------|-------------|-----------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            |                   | PCB Package        |             | ION Footprint   | Cost      | Mfr P/N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>270</b> | <b>90</b><br>each | <b>R0402-NOPOP</b> | PS          | NP              |           | R102, R103, R106,<br>R117, R13, R138, R139,<br>R140, R143, R164,<br>R165, R166, R198,<br>R199, R2, R200, R201,<br>R203, R204, R205,<br>R216, R228, R244,<br>R245, R246, R247,<br>R251, R252, R255,<br>R256, R257, R258,<br>R261, R262, R265,<br>R268, R270, R272,<br>R274, R276, R277,<br>R278, R279, R28, R280,<br>R281, R282, R285,<br>R287, R288, R294,<br>R295, R296, R297,<br>R298, R299, R300,<br>R301, R314, R320,<br>R321, R322, R324, R33,<br>R330, R334, R336,<br>R337, R339, R34, R340,<br>R342, R359, R36, R360,<br>R362, R364, R365, R38,<br>R54, R59, R68, R71,<br>R74, R85, R361, R58,<br>R284, R105, R109 |
|            |                   | EIA0402            |             | r402-25         |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>280</b> | <b>1</b><br>each  | <b>R0603-NOPOP</b> | PS          | NP              |           | R170                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|            |                   | EIA0603            |             | r603-35X45      |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>290</b> | <b>1</b><br>each  | <b>R2512-NOPOP</b> | PS          | NP              |           | R366                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|            |                   | EIA2512            |             | R2512           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>300</b> | <b>3</b><br>each  | <b>C0402-NOPOP</b> | PS          | NP              |           | C144, C26, C267                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|            |                   | EIA0402            |             | c402-25         |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |