

Parts List

511060-0001R

ASSY,DA830 MULTICHANNEL AUDIO BOARD
SUBA

| | | |
|----------|-----------|---------------|
| Type | PL | PCB Package |
| Revision | A | ION Footprint |
| Status | U | Package Qty |
| Date | 5/28/2008 | Bin Loc. |
| By | | Product Class |
| | | SUBA |

| Item | Qty Unit | Part Number | Type Rev | Title Detail | Reference |
|------|----------|--------------|----------|--|--------------------|
| | | PCB Package | | Mfr Name | Mfr P/N |
| 1 | 1 each | 511061-0001R | DWG A | PWB,DA830 MULTICHANNEL AUDIO BOARD CSTM | |
| 2 | 1 each | 511062-0001 | DOC A | LOGIC,DA830 MULTICHANNEL AUDIO BOARD SCH | |
| 5 | 1 each | 102794-0001R | PS | IC,TQFP80,AUDIO CODEC MATL | U15 |
| | | PQFP80PN | | AKM Semiconductor | AK4588VQP |
| 6 | 4 each | 102820-0001R | PS | IC,SSOP20,24-BIT DAC,SINGLE-ENDED ANALOG MATL | U4, U7, U9, U11 |
| | | DB20 | | Texas Instruments | PCM1802DB |
| 7 | 4 each | 102823-0001R | PS | IC,SO8,DUAL OP AMP MATL | U14, U18, U20, U22 |
| | | SO8 | | Texas Instruments | RC4580ID |
| 8 | 4 each | 102605-0001R | PS | IC,SO8,DUAL AUDIO OP AMP MATL | U3, U6, U8, U10 |
| | | SO8 | | Texas Instruments | OPA2134UAG4 |
| 9 | 3 each | 101057-0004R | PS | IC,SO5,SINGLE INVERTER GATE MATL | U12, U19, U13 |
| | | DCK5 | | Texas Instruments | SN74LVC1G04DCKRG4 |
| 12 | 3 each | 102821-0001R | PS | IC,MSOP8,LDO REGULATOR,250mA MATL | U24, U25, U23 |
| | | DGK8 | | Texas Instruments | TPS77301DGK |
| 13 | 1 each | 102822-0001R | PS | IC,QFN24,DC-DC CONVERTER,POSITIVE AND MATL | U5 |
| | | HVQFN24 | | Texas Instruments | TPS65131RGET |
| 14 | 1 each | 102784-0001R | PS | IC,SMT,BOOST CONVERTER MATL | U21 |
| | | QFN10 | | Texas Instruments | TPS61080DRCT |
| 17 | 1 each | 100913-0001R | PS | REGULATOR,SMT,TO263,ADJUSTABLE,LM317S MATL | U2 |
| | | LT1117CM | | Texas Instruments | LM317KTTR |
| 18 | 1 each | 102829-0001R | PS | IC,SOT263,REGULATOR,ADJUSTABLE,NEGATIV MATL | U1 |
| | | LT1117CM | | Texas Instruments | LM337KTTR |

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| PCB Package | | | | Mfr Name | Mfr P/N |
| 20 | 1 each | 100937-0245R | PS | CRYSTAL,SMT,24.576 MHZ MATL | Y1 |
| | | CSM-7 | | Citizen America Corporation | HCM49-24.576MABJ-UT |
| 22 | 1 each | 102827-0001R | PS | TRANSISTOR,SOT23,MOSFET,20V MATL | Q1 |
| | | SOT23-FET | | Vishay Intertechnology | SI2323DS-T1-E3 |
| 23 | 2 each | 100587-0001R | PS | TRANSISTOR,SMT,SOT23,2N4401 MATL | Q10, Q9 |
| | | SOT23-NPN | | Diodes, Inc. | MMBT4401-7-F |
| 24 | 1 each | 101360-0001R | PS | TRANSISTOR,SOT23,PNP,FM3T300 MATL | Q8 |
| | | SOT23-NPN | | Diodes, Inc. | MMBT3906-7-F |
| 25 | 8 each | 102809-0001R | PS | TRANSISTOR,SOT23,NPN MATL | Q2, Q11, Q12, Q3, Q6, Q7, Q4, Q5 |
| | | SOT23-EBC | | Toshiba | 2SC3326A(T5LFT) |
| 26 | 2 each | 101640-0001R | PS | DIODE,SMT,SCHOTTKY RECTIFIER,1A,40V MATL | D1, D4 |
| | | MBRM140 | | ON Semiconductor | MBRM140T1G |
| 27 | 1 each | 101367-0001R | PS | DIODE,SMT,SCHOTTKY,DUAL,BAT54C MATL | D5 |
| | | SOT23 | | Fairchild Semiconductor | BAT54C |
| 28 | 1 each | 100185-0001R | PS | DIODE,SOT23,SWITCHING MATL | D6 |
| | | SOT23-B | | Diodes, Inc. | BAS16-7-F |
| 29 | 2 each | 101328-0001R | PS | DIODE,SMT,ULTRAFast RECTIFIER,1A,50-600V MATL | D3, D2 |
| | | SMB | | ON Semiconductor | MURS120T3G |
| 32 | 5 each | 100823-0001R | PS | LED,SMT 1206,GREEN MATL | DS7, DS5, DS2, DS1, DS6 |
| | | EIA1206D | | LITEON | LTST-C150GKT |
| 34 | 2 each | 100823-0002R | PS | LED,SMT 1206,RED MATL | DS4, DS3 |
| | | EIA1206D | | LITEON | LTST-C150CKT |
| 41 | 1 each | 102569-1470R | PS | FILTER,SMT 0805,EMI,.47uF,16V MATL | E1 |
| | | NFM21 | | Murata Electronics | NFM21PC474R1C3D |
| 42 | 1 each | 101592-0731R | PS | INDUCTOR,SMT,7.3uH MATL | L6 |
| | | CDRH6 | | Sumida Electric Co., Ltd. | CDRH6D28NP-7R3NC |

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| | | PCB Package | | Mfr Name | Mfr P/N |
| 43 | 2 each | 101776-0530R | PS | INDUCTOR,SMT,5.3uH,5.7mm SQ. MATL | L2, L3 |
| | | IND-CDRH5D18 | | Sumida Electric Co., Ltd. | CDRH5D28NP-5R3NC |
| 44 | 1 each | 101228-2201R | PS | FERRITE BEAD,SMT 0805,220 OHMS MATL | L1 |
| | | EIA0805 | | Murata Electronics | BLM21PG221SN1D |
| 45 | 2 each | 101126-0001R | PS | FERRITE BEAD,SMT 1806,75 OHMS MATL | L4, L5 |
| | | SMTIND | | Murata Electronics | BLM41PG750SN1L |
| 50 | 3 each | 101290-0102R | PS | CAP,TANT,SMT 2816,100uF,16V MATL | C143, C23, C20 |
| | | EIA2816P | | Kemet Electronics Corporation | T491D107K016AT |
| 55 | 16 each | 101798-0221R | PS | CAP,CER,SMT 1210,22uF,16V,Y5V MATL | C97, C107, C134, C120, C146, C139, C5, C37, C10, C36, C58, C70, C57, C77, C98, C111 |
| | | EIA1210 | | Panasonic | ECJ-4YF1C226Z |
| 60 | 44 each | 102824-0101R | PS | CAP,CER,SMT 1206,10uF,16V,X5R MATL | C14, C43, C53, C40, C41, C73, C66, C65, C155, C151, C48, C82, C71, C80, C86, C144, C142, C2, C90, C92, C126, C112, C13, C84, C109, C140, C119, C59, C17, C78, C62, C108, C113, C145, C133, C32, C6, C56, C52, C11, C149, C29, C38, C63 |
| | | EIA1206 | | Murata Electronics | GRM31CR61C106KC31L |
| 61 | 10 each | 101694-0470R | PS | CAP,CER,SMT 1206,4.7uF,16V,X5R MATL | C49, C24, C25, C21, C22, C45, C46, C27, C28, C47 |
| | | EIA1206 | | Kemet Electronics Corporation | C1206C475K4PAC |
| 62 | 1 each | 101007-0220R | PS | CAP,CER,SMT 0603,2.2uF,6.3V,X5R,+/-10% MATL | C123 |
| | | EIA0603 | | Panasonic | ECJ-1VB0J225K |
| 63 | 2 each | 100942-0100R | PS | CAP,CER,SMT 1206,1uF,16V,+/-20%,X7R MATL | C33, C44 |
| | | EIA1206 | | AVX Corporation | 1206YC105MAT2A |
| 68 | 2 each | 101001-1104R | PS | CAP,CER,SMT 0603,10pF,50V,+/-5pF,NPO MATL | C4, C35 |
| | | EIA0603 | | Panasonic | ECJ-1VC1H100D |
| 69 | 1 each | 100999-1220R | PS | CAP,CER,SMT 0603,.22uF,16V,+80/-20%,Y5V MATL | C34 |
| | | EIA0603 | | AVX Corporation | 0603YG224ZAT2A |

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|-------------|-------------------|---------------------|----------------------------------|---|---|
| PCB Package | | | | | |
| | | | Mfr Name | | Mfr P/N |
| 70 | 53 each | 100994-1100R | PS | CAP,CER,SMT 0603,.1uF,16V,+/-10%,X7R MATL | C117, C141, C61, C60, C42, C69, C68, C67, C152, C131, C30, C3, C54, C50, C83, C72, C81, C85, C121, C122, C114, C74, C75, C100, C99, C147, C148, C7, C1, C8, C89, C91, C125, C124, C110, C15, C18, C19, C157, C154, C158, C79, C106, C132, C118, C51, C31, C76, C55, C12, C39, C64, C104 |
| | | EIA0603 | Kemet Electronics Corporation | | C0603C104K4RAC |
| 71 | 6 each | 100993-1101R | PS | CAP,CER,SMT 0603,.01uF,50V,+/-10%,X7R MATL | C153, C26, C150, C156, C16, C9 |
| | | EIA0603 | AVX Corporation | | 06035C103KAT2A |
| 72 | 1 each | 100994-1471R | PS | CAP,CER,SMT 0603,.047uF,16V,+/-10%,X7R MATL | C136 |
| | | EIA0603 | Panasonic | | ECJ-1VB1C473K |
| 75 | 16 each | 100993-3303R | PS | CAP,CER,SMT 0603,330pF,50V,+/-10%,X7R MATL | C101, C103, C127, C128, C115, C116, C93, C137, C138, C129, C130, C96, C94, C95, C102, C105 |
| | | EIA0603 | AVX Corporation | | 06035C331KAT2A |
| 76 | 2 each | 101103-1184R | PS | CAP,CER,SMT 0603,18pF,50V,+/-5%,NPO MATL | C87, C88 |
| | | EIA0603 | Panasonic | | ECJ-1VC1H180J |
| 77 | 1 each | 101002-1334R | PS | CAP,CER,SMT 0603,33pF,50V,+/-5%,NPO MATL | C135 |
| | | EIA0603 | Panasonic | | ECJ-1VC1H330J |
| 79 | 5 each | 100155-0001R | PS | RES,SMT 1206,0 OHM,1/8 WATT MATL | R166, R30, R27, R167, R45 |
| | | EIA1206 | Yageo | | RC1206JR-070RL |
| 80 | 18 each | 100687-0001R | PS | RES,SMT 0603,0 OHM,1/16 WATT MATL | R105, R5, R133, R29, R132, R112, R156, R153, R174, R175, R16, R15, R89, R121, R14, R38, R61, R82 |
| | | EIA0603 | Panasonic | | ERJ-3GEY0R00V |
| 81 | 22 each | 100687-0100R | PS | RES,SMT 0603,1 OHM,5%,1/16 WATT MATL | R41, R40, R42, R194, R200, R91, R193, R129, R128, R159, R190, R177, R178, R158, R33, R2, R51, R32, R65, R50, R88, R64 |
| | | EIA0603 | Panasonic | | ERJ-3RQJ1R0V |

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| PCB Package | | | | | |
| | | | Mfr Name | | Mfr P/N |
| 82 | 31 each | 100687-3300R | PS | RES,SMT 0603,33 OHM,5%,1/16 WATT MATL | R102, R99, R101, R97, R148, R108, R127, R126, R106, R85, R124, R86, R151, R107, R109, R122, R104, R120, R1, R98, R96, R95, R71, R103, R72, R73, R150, R123, R130, R125, R100 |
| | | EIA0603 | Yageo | | RC0603JR-0733RL |
| 83 | 16 each | 100642-3321R | PS | RES,SMT 0603,332 OHM,1%,1/16 WATT MATL | R10, R36, R12, R37, R11, R52, R34, R53, R59, R78, R60, R80, R66, R79, R67, R81 |
| | | EIA0603 | Panasonic | | ERJ-3EKF3320V |
| 84 | 8 each | 100642-5621R | PS | RES,SMT 0603,562 OHM,1%,1/16 WATT MATL | R9, R35, R8, R46, R57, R77, R58, R76 |
| | | EIA0603 | Panasonic | | ERJ-3EKF5620V |
| 85 | 8 each | 100642-2202R | PS | RES,SMT 0603,2.2K OHM,1%,1/16 WATT MATL | R115, R155, R135, R179, R154, R187, R176, R90 |
| | | EIA0603 | Yageo | | 9C06031A2201FKHFT |
| 86 | 16 each | 100642-4752R | PS | RES,SMT 0603,4.75K OHM,1%,1/16 WATT MATL | R113, R92, R136, R138, R134, R137, R160, R162, R157, R161, R186, R114, R188, R191, R189, R116 |
| | | EIA0603 | Panasonic | | ERJ-3EKF4751V |
| 87 | 9 each | 100687-1003R | PS | RES,SMT 0603,10K OHM,5%,1/16 WATT MATL | R117, R185, R139, R140, R163, R164, R192, R180, R93 |
| | | EIA0603 | Yageo | | RC0603JR-0710KL |
| 88 | 3 each | 100642-1001R | PS | RES,SMT 0603,100 OHM,1%,1/16 WATT MATL | R171, R149, R147 |
| | | EIA0603 | Yageo | | RC0603FR-07100RL |
| 95 | 3 each | 100642-6200R | PS | RES,SMT 0603,62 OHM,1%,1/16 WATT MATL | R197, R70, R69 |
| | | EIA0603 | Yageo | | RC0603FR-0762RL |
| 96 | 2 each | 100687-1501R | PS | RES,SMT 0603,150 OHM,5%,1/16 WATT MATL | R201, R202 |
| | | EIA0603 | Panasonic | | ERJ-3GEYJ151V |
| 97 | 1 each | 100642-7500R | PS | RES,SMT 0603,75 OHM,1%,1/16 WATT MATL | R13 |
| | | EIA0603 | Panasonic | | ERJ-3EKF75R0V |
| 98 | 1 each | 100642-1101R | PS | RES,SMT 0603,110 OHM,1%,1/16 WATT MATL | R17 |
| | | EIA0603 | Yageo | | RC0603FR-07110RL |

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|--------------------|-------------------|---------------------|-------------|--|--|
| PCB Package | | | | | |
| | | | | Mfr Name | Mfr P/N |
| 99 | 1 each | 100642-2211R | PS | RES,SMT 0603,221 OHM,1%,1/16 WATT MATL | R20 |
| | | EIA0603 | | Panasonic | ERJ-3EKF2210V |
| 100 | 2 each | 100642-4991R | PS | RES,SMT 0603,499 OHM,1%,1/16 WATT MATL | R56, R55 |
| | | EIA0603 | | Panasonic | ERJ-3EKF4990V |
| 101 | 11 each | 100642-1002R | PS | RES,SMT 0603,1K OHM,1%,1/16 WATT MATL | R75, R144, R143, R145, R119, R118, R141, R183, R4, R3, R28 |
| | | EIA0603 | | Panasonic | ERJ-3EKF1001V |
| 102 | 8 each | 100642-1502R | PS | RES,SMT 0603,1.5K OHM,1%,1/16 WATT MATL | R84, R18, R48, R63, R54, R39, R68, R94 |
| | | EIA0603 | | Panasonic | ERJ-3EKF1501V |
| 103 | 9 each | 100642-1622R | PS | RES,SMT 0603,1.62K OHM,1%,1/16 WATT MATL | R87, R182, R131, R110, R168, R111, R152, R172, R173 |
| | | EIA0603 | | Panasonic | ERJ-3EKF1621V |
| 104 | 1 each | 100642-1203R | PS | RES,SMT 0603,12K OHM,1%,1/16 WATT MATL | R142 |
| | | EIA0603 | | Yageo | RC0603FR-0712KL |
| 105 | 3 each | 100642-3013R | PS | RES,SMT 0603,30.1K OHM,1%,1/16 WATT MATL | R204, R199, R196 |
| | | EIA0603 | | Panasonic | ERJ-3EKF3012V |
| 106 | 1 each | 100642-4753R | PS | RES,SMT 0603,47.5K OHM,1%,1/16 WATT MATL | R181 |
| | | EIA0603 | | Panasonic | ERJ-3EKF4752V |
| 107 | 1 each | 100642-5363R | PS | RES,SMT 0603,53.6K OHM,1%,1/16 WATT MATL | R198 |
| | | EIA0603 | | Panasonic | ERJ-3EKF5362V |
| 108 | 1 each | 100642-4992R | PS | RES,SMT 0603,4.99K OHM,1%,1/16 WATT MATL | R165 |
| | | EIA0603 | | Panasonic | ERJ-3EKF4991V |
| 109 | 1 each | 100642-2154R | PS | RES,SMT 0603,215K OHM,1%,1/16 WATT MATL | R170 |
| | | EIA0603 | | Panasonic | ERJ-3EKF2153V |
| 110 | 2 each | 100642-9763R | PS | RES,SMT 0603,97.6K OHM,1%,1/16 WATT MATL | R195, R203 |
| | | EIA0603 | | Panasonic | ERJ-3EKF9762V |
| 111 | 4 each | 100642-4993R | PS | RES,SMT 0603,49.9K OHM,1%,1/16 WATT MATL | R7, R43, R31, R169 |
| | | EIA0603 | | Panasonic | ERJ-3EKF4992V |

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| PCB Package | | | | | |
| | | | | Mfr Name | Mfr P/N |
| 112 | 1 each | 100642-2491R EIA0603 | PS | RES,SMT 0603,249 OHM,1%,1/16 WATT MATL Panasonic | R26 ERJ-3EKF2490V |
| 113 | 1 each | 100642-2152R EIA0603 | PS | RES,SMT 0603,2.15K OHM,1%,1/16 WATT MATL Panasonic | R25 ERJ-3EKF2151V |
| 114 | 1 each | 100642-2492R EIA0603 | PS | RES,SMT 0603,2.49K OHM,1%,1/16 WATT MATL Panasonic | R184 ERJ-3EKF2491V |
| 115 | 1 each | 100642-5764R EIA0603 | PS | RES,SMT 0603,576K OHM,1%,1/16 WATT MATL Panasonic | R6 ERJ-3EKF5763V |
| 116 | 1 each | 100642-1211R EIA0603 | PS | RES,SMT 0603,121 OHM,1%,1/16 WATT MATL Panasonic | R24 ERJ-3EKF1210V |
| 117 | 1 each | 100642-1072R EIA0603 | PS | RES,SMT 0603,1.07K OHM,1%,1/16 WATT MATL Panasonic | R23 ERJ-3EKF1071V |
| 118 | 1 each | 100642-6204R EIA0603 | PS | RES,SMT 0603,620K OHM,1%,1/16 WATT MATL Panasonic | R44 ERJ-3EKF6203V |
| 119 | 2 each | 100115-0003R CON3 | PL | HEADER,3 X 1,VERTICAL,PIN SUBA | JP1, JP2 |
| 120 | 8 each | 101768-0001R SJ-3533 | PS | CONN,STEREO JACK,3.5mm MATL CUI, Inc. | J9, J10, J11, J12, J5, J6, J7, J8 SJ-3533N |
| 125 | 2 each | 102540-0017R RCJ-01 | PS | CONN,RCA,RIGHT ANGLE,ORANGE MATL CUI, Inc. | J3, J2 RCJ-017 |
| 130 | 1 each | 102283-0001R TORX141P | PS | CONN,FIBER OPTIC RECEIVING MODULE MATL Toshiba | J1 TORX147PL(F,T) |
| 135 | 1 each | 101238-0001R RASM712 | PS | CONN,SMT,JACK,RIGHT ANGLE,POWER,2.5mm MATL Switchcraft | J4 RASM712TRP15X |
| 150 | 1 each | 102620-0040R QTE-040 | PS | CONN,SMT,HEADER,40x2,.316H,.8mm,HI-SPEED MATL Samtec, Inc. | P1 QTE-040-02-L-D-A |

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| | | PCB Package | | Mfr Name | Mfr P/N |
| 155 | 1 each | 102389-0001R | PS | SWITCH, SMT,SLIDE,RT ANGLE,SPDT MATL | SW1 |
| | | GS01MSAKE | | C&K/Unimax, Inc. | GS01MSABE |
| 160 | 51 each | 100115-0001R | PL | HEADER,1 X 1,VERTICAL,PIN SUBA | TP28, TP41, TP45, TP44, TP25, TP36, TP9, TP12, TP11, TP39, TP40, TP48, TP34, TP38, TP29, TP30, TP31, TP21, TP35, TP37, TP32, TP23, TP51, TP22, TP24, TP18, TP20, TP19, TP13, TP14, TP15, TP26, TP27, TP6, TP16, TP8, TP17, TP43, TP7, TP33, TP10, TP4, TP3, TP1, TP5, TP47, TP50, TP46, TP49, TP2, TP42 |
| | | CON1 | | | |
| 175 | 13 each | R0603-NOPOP | PS | NP | R146, R62, R21, R22, R83, R14, R38, R47, R19, R61, R82, R49, R74 |
| | | EIA0603 | | | |
| 176 | 2 each | NO-POP | PS | NP | U16, U17 |
| | | NO-POP | | | |