

# Parts List

## 511060-0001R

ASSY,DA830 MULTICHANNEL AUDIO BOARD  
SUBA

Type	PL	PCB Package
Revision	B	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		ION Footprint	Cost	Mfr P/N
1	1 each	511061-0001R	DWG B	PWB,DA830 MULTICHANNEL AUDIO BOARD CSTM		
2	1 each	511062-0001	DOC B	LOGIC,DA830 MULTICHANNEL AUDIO BOARD SCH		
5	1 each	102794-0001R	PS	IC,TQFP80,AUDIO CODEC MATL PQFP80PN	U15 AK4588VQP	
6	4 each	102820-0001R	PS	IC,SSOP20,24-BIT DAC,SINGLE-ENDED ANALOG MATL DB20	U4, U7, U9, U11 PCM1802DB	
7	4 each	102823-0001R	PS	IC,SO8,DUAL OP AMP MATL SO8	U14, U18, U20, U22 RC4580ID	
8	4 each	102605-0001R	PS	IC,SO8,DUAL AUDIO OP AMP MATL SO8	U3, U6, U8, U10 OPA2134UAG4	
9	3 each	101057-0004R	PS	IC,SO5,SINGLE INVERTER GATE MATL DCK5	U12, U19, U13 SN74LVC1G04DCKRG4	
10	1 each	102760-0001R	PS	IC,DBV6,CONFIGURABLE MULTIPLE-FUNCTION MATL DBV6	U16 SN74LVC1G58DBVR	
12	3 each	102821-0001R	PS	IC,MSOP8,LDO REGULATOR,250mA MATL DGK8	U24, U25, U23 TPS77301DGK	
13	1 each	102822-0001R	PS	IC,QFN24,DC-DC CONVERTER,POSITIVE AND MATL HVQFN24	U5 TPS65131RGET	
14	1 each	102784-0001R	PS	IC,SMT,BOOST CONVERTER MATL QFN10	U21 TPS61080DRCT	
17	1 each	100913-0001R	PS	REGULATOR,SMT,TO263,ADJUSTABLE,LM317S MATL LT1117CM	U2 LM317KTTR	

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		PCB Package		ION Footprint	Cost	Mfr P/N
18	1 each	102829-0001R	PS	IC,SOT263,REGULATOR,ADJUSTABLE,NEGATIV MATL	U1	LM337KTTR
		LT1117CM				
20	1 each	100937-0245R	PS	CRYSTAL,SMT,24.576 MHZ MATL	Y1	HCM49-24.576MABJ-UT
		CSM-7		xtal2-216x60-hcm49		
22	1 each	102827-0001R	PS	TRANSISTOR,SOT23,MOSFET,20V MATL	Q1	SI2323DS-T1-E3
		SOT23-FET		.48		
23	2 each	100587-0001R	PS	TRANSISTOR,SMT,SOT23,2N4401 MATL	Q10, Q9	MMBT4401-7-F
		SOT23-NPN				
24	1 each	101360-0001R	PS	TRANSISTOR,SOT23,PNP,FMMT3906 MATL	Q8	MMBT3906-7-F
		SOT23-NPN		sot23-28x44-bec 0.156		
25	8 each	102809-0001R	PS	TRANSISTOR,SOT23,NPN MATL	Q2, Q11, Q12, Q3, Q6, Q7, Q4, Q5	2SC3326A(T5LFT)
		SOT23-EBC				
26	2 each	101640-0001R	PS	DIODE,SMT,SCHOTTKY RECTIFIER,1A,40V MATL	D1, D4	MBRM140T1G
		MBRM140		0.1619		
27	1 each	101367-0001R	PS	DIODE,SMT,SCHOTTKY,DUAL,BAT54C MATL	D5	BAT54C
		SOT23		0.044		
28	1 each	100185-0001R	PS	DIODE,SOT23,SWITCHING MATL	D6	BAS16-7-F
		SOT23-B		SOT23-28X44 0.01		
29	2 each	101328-0001R	PS	DIODE,SMT,ULTRAFAST RECTIFIER,1A,50-600V MATL	D3, D2	MURS120T3G
		SMB		do214aa-79x110 0.057		
32	5 each	100823-0001R	PS	LED,SMT 1206,GREEN MATL	DS7, DS5, DS2, DS1, DS6	LTST-C150GKT
		EIA1206D		led1206-59x59 0.03		
33	1 each	100823-0003R	PS	LED,SMT 1206,ORANGE MATL	DS3	LTST-C150EKT
		EIA1206D		0.057		
34	1 each	100823-0002R	PS	LED,SMT 1206,RED MATL	DS4	LTST-C150CKT
		EIA1206D		led1206-59x59 0.0432		

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		PCB Package		ION Footprint	Cost	Mfr P/N
41	1 each	102569-1470R	PS	FILTER,SMT 0805,EMI,.47uF,16V MATL	E1	
		NFM21		emi-NFM21p	0.071	NFM21PC474R1C3D
42	1 each	101592-0731R	PS	INDUCTOR,SMT,7.3uH MATL	L6	
		CDRH6		cdrh6	0.25	CDRH6D28NP-7R3NC
43	2 each	101776-0530R	PS	INDUCTOR,SMT,5.3uH,5.7mm SQ. MATL	L2, L3	
		IND-CDRH5D18				CDRH5D28NP-5R3NC
44	1 each	101228-2201R	PS	FERRITE BEAD,SMT 0805,220 OHMS MATL	L1	
		EIA0805		I805-35x60	0.017	BLM21PG221SN1D
45	2 each	101126-0001R	PS	FERRITE BEAD,SMT 1806,75 OHMS MATL	L4, L5	
		SMTIND		FB1806-41X70	0.075	BLM41PG750SN1L
50	3 each	101290-0102R	PS	CAP,TANT,SMT 2816,100uF,16V MATL	C143, C23, C20	
		EIA2816P		c7343-84x118	0.19	T491D107K016AT
55	16 each	102852-0221R	PS	CAP,ELEC,SMT,22uF,10V MATL	C97, C107, C134, C120, C146, C139, C5, C37, C10, C36, C58, C70, C57, C77, C98, C111	
		SMTRAD150				EEE-FK1A220R
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		C1206-40X70		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		C1206-40X70	0.032	C1206C475K4PAC
62	1 each	101007-0220R	PS	CAP,CER,SMT 0603,2.2uF,6.3V,X5R,+/-10% MATL	C123	
		EIA0603		c603-35x45	0.026	ECJ-1VB0J225K
63	2 each	100942-0100R	PS	CAP,CER,SMT 1206,1uF,16V,+/-20%,X7R MATL	C33, C44	
		EIA1206		C1206-40X70	0.069	1206YC105MAT2A

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		PCB Package		ION Footprint	Cost	Mfr P/N
68	2 each	101001-1104R	PS	<b>CAP,CER,SMT 0603,10pF,50V,+/-5pF,NPO</b> MATL	C4, C35	
		EIA0603		c603-35x45	0.003	ECJ-1VC1H100D
69	1 each	100999-1220R	PS	<b>CAP,CER,SMT 0603,.22uF,16V,+80/-20%,Y5V</b> MATL	C34	
		EIA0603			0.012	0603YG224ZAT2A
70	53 each	100994-1100R	PS	<b>CAP,CER,SMT 0603,.1uF,16V,+/-10%,X7R</b> 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		c603-35x45	0.0024	C0603C104K4RAC
71	6 each	100993-1101R	PS	<b>CAP,CER,SMT 0603,.01uF,50V,+/-10%,X7R</b> MATL	C153, C26, C150, C156, C16, C9	
		EIA0603		c603-35x45	0.004	06035C103KAT2A
72	1 each	100994-1471R	PS	<b>CAP,CER,SMT 0603,.047uF,16V,+/-10%,X7R</b> MATL	C136	
		EIA0603		c603-35x45	0.005	ECJ-1VB1C473K
75	16 each	100993-3303R	PS	<b>CAP,CER,SMT 0603,330pF,50V,+/-10%,X7R</b> MATL	C101, C103, C127, C128, C115, C116, C93, C137, C138, C129, C130, C96, C94, C95, C102, C105	
		EIA0603		c603-35x45	0.005	06035C331KAT2A
76	2 each	101103-1184R	PS	<b>CAP,CER,SMT 0603,18pF,50V,+/-5%,NPO</b> MATL	C87, C88	
		EIA0603		c603-35x45	0.007	ECJ-1VC1H180J
77	1 each	101002-1334R	PS	<b>CAP,CER,SMT 0603,33pF,50V,+/-5%,NPO</b> MATL	C135	
		EIA0603		c603-35x45	0.01	ECJ-1VC1H330J
79	5 each	100155-0001R	PS	<b>RES,SMT 1206,0 OHM,1/8 WATT</b> MATL	R166, R30, R27, R167, R45	
		EIA1206		r1206-40x70	0.0019	RC1206JR-070RL
80	17 each	100687-0001R	PS	<b>RES,SMT 0603,0 OHM,1/16 WATT</b> MATL	R105, R5, R133, R29, R132, R112, R156, R153, R174, R175, R16, R15, R89, R14, R38, R61, R82	
		EIA0603		r603-35X45	0.0012	ERJ-3GEY0R00V

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		PCB Package	ION Footprint		Cost	Mfr P/N
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	r603-35X45			ERJ-3RQJ1R0V
82	31 each	100687-3300R	PS	RES,SMT 0603,33 OHM,5%,1/16 WATT MATL	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, R102	
		EIA0603	r603-35X45		0.0008	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	r603-35x45			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	r603-35x45		0.0015	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	r603-35x45		0.0016	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	r603-35x45		0.0015	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	r603-35X45		0.0009	RC0603JR-0710KL
88	2 each	100642-1001R	PS	RES,SMT 0603,100 OHM,1%,1/16 WATT MATL	R171, R149	
		EIA0603	r603-35x45		0.0021	RC0603FR-07100RL
95	3 each	100642-6200R	PS	RES,SMT 0603,62 OHM,1%,1/16 WATT MATL	R197, R70, R69	
		EIA0603	r603-35x45			RC0603FR-0762RL
96	2 each	100687-1501R	PS	RES,SMT 0603,150 OHM,5%,1/16 WATT MATL	R201, R202	
		EIA0603	r603-35x45		0.0009	ERJ-3GEYJ151V

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		PCB Package	ION Footprint		Cost	Mfr P/N
97	1 each	100642-7500R EIA0603	PS	RES,SMT 0603,75 OHM,1%,1/16 WATT MATL r603-35x45	R13 ERJ-3EKF75R0V	
98	1 each	100642-1101R EIA0603	PS	RES,SMT 0603,110 OHM,1%,1/16 WATT MATL r603-35x45	R17 RC0603FR-07110RL	
99	1 each	100642-2211R EIA0603	PS	RES,SMT 0603,221 OHM,1%,1/16 WATT MATL r603-35x45	R20 ERJ-3EKF2210V	
100	2 each	100642-4991R EIA0603	PS	RES,SMT 0603,499 OHM,1%,1/16 WATT MATL r603-35x45	R56, R55 ERJ-3EKF4990V	
101	11 each	100642-1002R EIA0603	PS	RES,SMT 0603,1K OHM,1%,1/16 WATT MATL r603-35x45	R75, R144, R143, R145, R119, R118, R141, R183, R4, R3, R28 ERJ-3EKF1001V	
102	8 each	100642-1502R EIA0603	PS	RES,SMT 0603,1.5K OHM,1%,1/16 WATT MATL r603-35x45	R84, R18, R48, R63, R54, R39, R68, R94 ERJ-3EKF1501V	
103	9 each	100642-1622R EIA0603	PS	RES,SMT 0603,1.62K OHM,1%,1/16 WATT MATL r603-35x45	R87, R182, R131, R110, R168, R111, R152, R172, R173 ERJ-3EKF1621V	
104	1 each	100642-1203R EIA0603	PS	RES,SMT 0603,12K OHM,1%,1/16 WATT MATL r603-35x45	R142 RC0603FR-0712KL	
105	3 each	100642-3013R EIA0603	PS	RES,SMT 0603,30.1K OHM,1%,1/16 WATT MATL r603-35x45	R204, R199, R196 ERJ-3EKF3012V	
106	1 each	100642-4753R EIA0603	PS	RES,SMT 0603,47.5K OHM,1%,1/16 WATT MATL r603-35x45	R181 ERJ-3EKF4752V	
107	1 each	100642-5363R EIA0603	PS	RES,SMT 0603,53.6K OHM,1%,1/16 WATT MATL r603-35x45	R198 ERJ-3EKF5362V	
108	1 each	100642-4992R EIA0603	PS	RES,SMT 0603,4.99K OHM,1%,1/16 WATT MATL r603-35x45	R165 ERJ-3EKF4991V	
109	1 each	100642-2154R EIA0603	PS	RES,SMT 0603,215K OHM,1%,1/16 WATT MATL r603-35x45	R170 ERJ-3EKF2153V	

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110	2 each	100642-9763R EIA0603	PS	RES,SMT 0603,97.6K OHM,1%,1/16 WATT MATL r603-35x45	R195, R203 ERJ-3EKF9762V	
111	4 each	100642-4993R EIA0603	PS	RES,SMT 0603,49.9K OHM,1%,1/16 WATT MATL r603-35x45	R7, R43, R31, R169 ERJ-3EKF4992V	
112	1 each	100642-2491R EIA0603	PS	RES,SMT 0603,249 OHM,1%,1/16 WATT MATL r603-35x45	R26 ERJ-3EKF2490V	
113	1 each	100642-2152R EIA0603	PS	RES,SMT 0603,2.15K OHM,1%,1/16 WATT MATL r603-35x45	R25 ERJ-3EKF2151V	
114	1 each	100642-2492R EIA0603	PS	RES,SMT 0603,2.49K OHM,1%,1/16 WATT MATL r603-35x45	R184 ERJ-3EKF2491V	
115	1 each	100642-5764R EIA0603	PS	RES,SMT 0603,576K OHM,1%,1/16 WATT MATL r603-35x45	R6 ERJ-3EKF5763V	
116	1 each	100642-1211R EIA0603	PS	RES,SMT 0603,121 OHM,1%,1/16 WATT MATL r603-35x45	R24 ERJ-3EKF1210V	
117	1 each	100642-1052R EIA0603	PS	RES,SMT 0603,1.05K OHM,1%,1/16 WATT MATL r603-35x45	R23 ERJ-3EKF1051V	
118	1 each	100642-6204R EIA0603	PS	RES,SMT 0603,620K OHM,1%,1/16 WATT MATL r603-35x45	R44 ERJ-3EKF6203V	
119	4 each	100115-0002R CON2	PL	HEADER,2 X 1,VERTICAL,PIN SUBA JUMP1X2-6040	JP3, JP4, JP5, JP6 0.16	
120	2 each	100115-0003R CON3	PL	HEADER,3 X 1,VERTICAL,PIN SUBA JUMP1X3-6040	JP1, JP2	
121	8 each	101768-0001R SJ-3533	PS	CONN,STEREO JACK,3.5mm MATL cui3533-10070	J9, J10, J11, J12, J5, J6, J7, J8 SJ-3533N	
125	1 each	102540-0017R RCJ-01	PS	CONN,RCA,RIGHT ANGLE,ORANGE MATL rcajack-CUI-RCJ-01	J2 RCJ-017	

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126	1 each	102540-0014R	PS	CONN,RCA,RIGHT ANGLE,YELLOW MATL	J3	
		RCJ-01		rcajack-CUI-RCJ-01	0.253	RCJ-014
130	1 each	102283-0001R	PS	CONN,FIBER OPTIC RECEIVING MODULE MATL	J1	
		TORX141P		conn5-torx141p	0.87	TORX147PL(F,T)
150	1 each	102620-0040R	PS	CONN,SMT,HEADER,40x2,.316H,.8mm,HI-SPEED MATL	P1	
		QTE-040			4.05	QTE-040-02-L-D-A
155	1 each	102389-0001R	PS	SWITCH, SMT,SLIDE,RT ANGLE,SPDT MATL	SW1	
		GS01MSAKE			2.679	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		tp1-6040		
175	11 each	R0603-NOPOP	PS	NP	R146, R62, R21, R22, R83, R47, R19, R49, R74, R147, R121	
		EIA0603		r603-35X45		
176	2 each	NO-POP	PS	NP	J4, U17	
		NO-POP				
177	1 each	100606-0001R	PS	BUMPER,CYLINDRICAL,SELF-STICK,BLACK,.5 MATL		
					0.032	SJ-5012(BLACK)
178	2 each	101048-0004R	PS	BUMPER,#4,RECESSED,.5 DIA.,.25H MATL		
					0.0407	720
179	2 each	100455-0250R	PS	SPACER,HEX,BRASS,4-40,.25 O.D. X .250L MATL		
					0.3	2100-440 -B-12

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<b>180</b>	<b>2</b> each	<b>100455-0312R</b>	PS	<b>SPACER,HEX,BRASS,4-40,.25 O.D. X .312L</b> MATL		2101-440 -B-12
<b>181</b>	<b>4</b> each	<b>100329-0250R</b>	PS	<b>SCREW,PHILLIPS,PAN,SS,4-40 X .250</b> MATL	0.0106	0440X0250PNPHSSPS
<b>182</b>	<b>4</b> each	<b>100329-0187R</b>	PS	<b>SCREW,PHILLIPS,PAN,SS,4-40 X .187</b> MATL	0.0509	0440X0187PNPHSSPS