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Bill of Materials for BAL PCM 63 DAC 30.sch on Sat Apr 07 23:05:39 2007

Item	Ref Des	Part Name	Qty	Manufacturer	Value	Voltage Rating	PCB DECAL
1	Q23-24 Q29-30	2AS970, BL grade	4	TOSHIBA	BL grade		TO-92
2	Q21-22 Q27-28 Q37	2SC2240, BL grade	5	TOSHIBA	BL grade		TO-92
3	Q2 Q5 Q7 Q10 Q12 Q15 Q17 Q20 Q26 Q32	2SJ74	10	TOSHIBA			TO-92
4	Q1 Q3-4 Q6 Q8-9 Q11 Q13-14 Q16 Q18-19 Q25 Q31	2SK170	14	Toshiba			TO-92
5	T1-2	51698-LF3	2	MIDCOM			51698-LF3
6	U4 U11 U17	74HC86	3	Motorola			DIP14
7	D11-18 D21-27 D29	BYV27-150	16	PHILIPS			D035
8	C83-90	CAP-AE5, 1000uf	8	Panasonic FC	1000uf	35V	CX-5X10MM
9	C6 C17 C27 C38 C196 C199 C202 C208-210 C215 C217-218 C222 C228	CAP-AE5, 120uf	15	Panasonic FC	120uf	16V	279B-01
10	C223 C229	CAP-AE5, 2200uf	2	Panasonic FC	2200uf	16V	CX-5X10MM
11	C10-11 C20-21 C31-32 C41-42 C49-50 C67-68 C100 C102 C104 C106 C109-110 C115-116 C120 C122 C124 C128 C130 C132 C134 C136 C138 C140 C142-145 C149 C151 C153 C155 C158-159 C164-165 C169 C171 C173 C177 C179 C181	CAP-AE5, 22uf	58	Panasonic FC	22uf	50V	279B-01

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	C183 C185 C187 C189 C191-194 C206 C226						
12	C45-46 C52 C54 C59-60 C63-64 C70 C72 C77-78	CAP-AE5, 330uf	12	Panasonic FC	330uf	35V	ECAP-A-5MM
13	C203-204	CAP-CFR04R- B,0.01uf,J	2	EVOX	0.01uf	50V	CK06
14	C1 C5 C8 C12 C16 C19 C22 C26 C29 C33 C37 C40 C43-44 C47-48 C51 C53 C55-58 C61-62 C65-66 C69 C71 C73-76 C79 C91-94 C97-99 C101 C103 C105 C107-108 C111-114 C117-119 C121 C123 C125-127 C129 C131 C133 C135 C137 C139 C141 C146-148 C150 C152 C154 C156-157 C160-163 C166-168 C170 C172 C174-176 C178 C180 C182 C184 C186 C188 C190 C195 C198 C201 C205 C207 C211-214 C216 C219-221 C224 C227	CAP-CFR04R- B,0.1uf,5%	106	Epcos	0.1uf	63V	CK06
15	C95-96 C225 C231	CAP-CFR04R- B,0.1uf,K	4	Epcos	0.1uf	160v	CFR04R-B
16	C7 C18 C28 C39	CAP-CFR04R- B,10nf,J	4	EVOX	10nf	50V	CK05
17	C4 C15	CAP-CFR04R-	4	Rifa PHE426	10uf	160-250V	C-28MM_20X

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18	C25 C36 C232	B,10uf,5% CAP-CFR04R- B,1500pf,J	1	Epcos	1500pf	63V	30 CK06
19	C9 C30	CAP-CFR04R- B,150pf,J	2	CDE	150pf	100V	CK06
20	C2 C13 C23 C34	CAP-CFR04R- B,2n2,J	4	Epcos	2n2	63V	CK06
21	C197	CAP-CFR04R- B,330pf,K	1	Murata	330pf	50-100V	CK06
22	C3 C14 C24 C35	CAP-CFR04R- B,470p,J	4	EVOX	470p	50V	CK05
23	C200	CAP-CFR04R- B,47nf,J	1	Epcos	47nf	63V	CK06
24	J12-15 J18-20	CON-SIP-2P- CHINA,Screw type 2 pin	7		Screw type 2 pin		CONN-2P5MM
25	J1-7 J9 J17	CON-SIP-3P	9				SIP-3P
26	J10-11 J16	CON-SIP-3P- CHINA,Screw type 3 pin	3		Screw type 3 pin		CONN-3P
27	J8	CON-SIP-4P	1				SIP-4P
28	U15	CS8414	1	Crystal			DIP28-600
29	D20 D31	DIODE, 1N4001	2	Any	1N4001		DO7
30	H1-12	HEATSINK_SM ALL	12				HEATSINK_6 30X630X100 0MIL
31	L2-22	IND-MOLDED, 47uH	21		47uH		IND-MOLDED
32	L1	IND-UPRIGHT ,Bead	1		Bead		IND-UPRIGH T
33	Q34 Q36	IRF610	2	IR			TO-220-UP
34	Q33 Q35	IRF9610	2	IR			TO-220-UP
35	D9-10 D19 D28 D30 D32	LED	6	Green or Red			LED
36	U2 U5 U9 U12	LM317T_3P	4	NATIONAL SEMICONDUCTOR			TO-220-UP
37	U3 U6 U10 U13	LM337T_3P	4	NATIONAL SEMICONDUCTOR			TO-220-UP
38	U18 U20	LM7805CT_HS	2	NATIONAL SEMICONDUCTOR			TO-220-UP_ HEATSINKS
39	U19	LM7808CT_HS	1	NATIONAL SEMICONDUCTOR			TO-220-UP_ HEATSINKS
40	U1 U7-8 U14	PCM63PK	4	Burr Brown			DIP28-600
41	R96 R102-104 R110-111 R115-116	RES-1/4W, 100,1%	8	Metal film	100		R1/4WA
42	R5 R14 R25 R35 R117 R125	RES-1/4W, 100K,1%	6	Metal film	100K		R1/4W
43	R6 R15 R26 R36 R57-58 R75-80	RES-1/4W, 100R,1%	12	Metal film	100R		R1/4W
44	R90-91	RES-1/4W, 10R,1%	2	Metal film	10R		R1/4W
45	R41-42 R51-54 R59-60	RES-1/4W, 10k,1%	13	Metal film	10k		R1/4W

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	R69-72 R120					
46	R85-87 R92-94 R99-101 R106-108 R121 R123 R128	RES-1/4W, 150R,1%	15	Metal film	150R	R1/4W
47	R55-56 R73-74 R114	RES-1/4W, 1k,1%	5	Metal film	1k	R1/4W
48	R4 R13 R24 R34	RES-1/4W, 1k5,1%	4	TWD carbon resistor	1k5	R1/4W
49	R49-50 R67-68	RES-1/4W, 1k5,1%	4	Metal film	1k5	R1/4W
50	R47-48 R65-66	RES-1/4W, 20k,1%	4	metal film	20k	R1/4W
51	R7 R16 R27 R37	RES-1/4W, 220k,1%	4	Metal film	220k	R1/4W
52	R19-20 R30 R40	RES-1/4W, 22R,1%	4	Metal film	22R	R1/4W
53	R118	RES-1/4W, 22k,1%	1	Metal film	22k	R1/4W
54	R97-98 R105 R109 R112-113 R126-127	RES-1/4W, 300,1%	8	Metal film	300	R1/4WA
55	R28-29 R129-130 R133-134 R137-138	RES-1/4W, 330k,1%	8	Metal film	330k	R1/8W
56	R3 R12 R23 R33	RES-1/4W, 33R,1%	4	Metal film	33R	R1/4W
57	R89 R124	RES-1/4W, 3k,1%	2	Metal film	3k	R1/4W
58	R95 R122	RES-1/4W, 47R,1%	2	Metal film	47R	R1/4W
59	R141-144	RES-1/4W, 50k,1%	4	TWD carbon resistor	50k	R1/4W
60	R119	RES-1/4W, 56k,1%	1	Metal film	56k	R1/4W
61	R81-82	RES-1/4W, 5R1,1%	2	Metal film	5R1	R1/4W
62	R45-46 R63-64	RES-1/4W, 5k6,1%	4	Metal film	5k6	R1/4W
63	R88	RES-1/4W, 75R,1%	1	Metal film	75R	R1/4W
64	R83-84	RES-1/4W, 9k1,1%	2	Metal film	9k1	R1/4W
65	K1-2	RLY-RY5W-K, 5Vdc	2	Takamisawa	5Vdc	RLY-RY5W-K
66	U16	SM5842	1	NPC		DIP28-600
67	D1-8	TL431C	8	MOTOROLA		TO-92
68	R8-9 R17-18	VRES-TOP-AD J,100k	4	20 turns type	100k	VRES-TOP-A DJ
69	R38-39 R131-132 R135-136 R139-140	VRES-TOP-AD J,100k Opt	8	20 turns type	100k Opt	VRES-TOP-A DJ
70	R43-44 R61-62	VRES-TOP-AD J,1k	4	20 turns type	1k	VRES-TOP-A DJ
71	R1 R10 R21 R31	VRES-TOP-AD J,50R	4	20 turns type	50R	VRES-TOP-A DJ

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72	R2 R11 R22 R32	VRES-TOP-AD J,5k	4	20 turns type	5k	VRES-TOP-A DJ
73	Y1	XTAL-FULL, 11.2896MHZ	1	TENT XO Opt.	11.289 6MHZ	XTAL-FULL- SIZE
