

Bill Of Materials for BAL PCM 63 DAC 23.sch on Mon Mar 12 17:35:44 2007

Item	Ref Des	Part Name	Qty	Manufacturer	Value	Voltage Rating	PCB DECAL
1	Q23-24 Q29-30	2AS970	4	TOSHIBA			TO-92
2	Q21-22 Q27-28 Q37	2SC2240	5	TOSHIBA			TO-92
3	Q2 Q5 Q7 Q12 Q15 Q26 Q32	2SJ74	7	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	TEXAS INSTRUMENTS			DIP14
7	D11-18 D21-27 D29	BYV27-150	16	PHILIPS			DO35
8	C6 C17 C27 C38	CAP-AE4, 120uf	4	Panasonic FC	120uf	16V	279B-01
9	C83-90	CAP-AE5, 1000uf	8	Panasonic FC	1000uf	35V	CX-5X10MM
10	C196 C199 C202 C208-210 C215 C217-218 C222 C228	CAP-AE5, 120uf	11	Panasonic FC	120uf	16V	279B-01
11	C223 C229	CAP-AE5, 2200uf	2	Panasonic FC	2200uf	16V	CX-5X10MM
12	C10-11 C20-21 C31-32 C41-42 C100 C102 C104 C106 C110 C120 C122 C124 C128 C130 C132 C134 C136 C138 C140 C149 C151 C153 C155 C169 C171 C173 C177 C179 C181 C183 C185 C187 C189 C206 C226	CAP-AE5, 22uF	39	Panasonic FC	22uF	35V	279B-01
13	C49-50 C67-68	CAP-AE5, 22uf	4	Panasonic FC	22uf	40V	CK12

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14	C109	CAP-AE5,	15	Panasonic FC	22uf	35V	279B-01

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	C115-116 C142-145 C158-159 C164-165 C191-194	22uf					
15	C45-46 C52 C54 C59-60 C63-64 C70 C72 C77-78	CAP-AE5, 330uf	12	Panasonic FC	330uf	35V	ECAP-A-5MM
16	C79-82	CAP-AE5,not use	4		not use	35V	279B-01
17	C95-96 C225 C231	CAP-CFR04R- B,0.01UF,K	4	Epcos	0.01UF	160v	CFR04R-B
18	C203-204	CAP-CFR04R- B,0.01uf,J	2	ERO	0.01uf	50V	CK06
19	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 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	CAP-CFR04R- B,0.1uf,5%	106	Epcos	0.1uf	63V	CK06

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	C205 C207						

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	C211-214 C216 C219-221 C224 C227 C230						
20	C7 C18 C28 C39	CAP-CFR04R- B,10nf,J	4	ERO	10nf	50V	CK05
21	C232	CAP-CFR04R- B,1500pf,J	1	Epcos	1500pf	63V	CK06
22	C9 C30	CAP-CFR04R- B,150pf,J	2	CDE	150pf	100V	CK06
23	C4 C15 C25 C36	CAP-CFR04R- B,20uf,5%	4	Film MKP	20uf	160-250V	C-28MM_20X 30
24	C2 C13 C23 C34	CAP-CFR04R- B,2n2,J	4	Epcos	2n2	63V	CK06
25	C197	CAP-CFR04R- B,330pf,J	1	Epcos	330pf	63V	CK06
26	C3 C14 C24 C35	CAP-CFR04R- B,470p,J	4	ERO	470p	50V	CK05
27	C200	CAP-CFR04R- B,47nf,J	1	Epcos	47nf	63V	CK06
28	J12-15 J18	CON-SIP-2P- CHINA	5				CONN-2P5MM
29	J1-9 J17	CON-SIP-3P	10				SIP-3P
30	J10-11 J16	CON-SIP-3P- CHINA	3				CONN-3P
31	U15	CS8414	1	Crystal			DIP28-600
32	D20	DIODE	1	Any			DO7
33	L2-21	IND-MOLDED, 47uH	20		47uH		IND-MOLDED
34	L1	IND-UPRIGHT ,Bead	1		Bead		IND-UPRIGH T
35	Q34 Q36	IRF610	2	IR			TO-220-UP
36	Q33 Q35	IRF9610	2	IR			TO-220-UP
37	Q10 Q17 Q20	J174	3	Toshiba			TO-92
38	D9-10 D19 D28 D30	LED	5	Any			LED
39	U2 U5 U9 U12 U18 U20	LM7805CT	6	NATIONAL SEMICONDUCTC			TO-220-DOW N
40	U19	LM7808CT	1	NATIONAL SEMICONDUCTC			TO-220
41	U3 U6 U10 U13	LM7905CT	4	NATIONAL SEMICONDUCTC			TO-220-DOW N
42	U1 U7-8 U14	PCM63PK	4	Burr Brown			DIP28-600
43	R5 R14 R25 R35 R117 R125	RES-1/4W, 100K,1%	6	Metal film	100K		R1/4W
44	R6 R15 R26 R36 R57-58 R75-80	RES-1/4W, 100R,1%	12	Metal film	100R		R1/4W
45	R90-91	RES-1/4W, 10R,1%	2	Metal film	10R		R1/4W
46	R41-42	RES-1/4W,	13	Metal film	10k		R1/4W

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	R51-54	10k,1%					

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	R59-60						
	R69-72						
	R120						
47	R85-87 R92-94 R99-101	RES-1/4W, 150R,1%	14	Metal film	150R		R1/4W
	R106-108						
	R121 R123						
48	R55-56 R73-74	RES-1/4W, 1k,1%	5	Metal film	1k		R1/4W
	R114						
49	R47-48	RES-1/4W, 20k,1%	4	metal film	20k		R1/4W
	R65-66						
50	R7 R16	RES-1/4W, 220k,1%	4	Metal film	220k		R1/4W
	R27 R37						
51	R19-20	RES-1/4W, 22R,1%	4	Metal film	22R		R1/4W
	R30 R40						
52	R118	RES-1/4W, 22k,1%	1	Metal film	22k		R1/4W
	R3 R12	RES-1/4W, 33R,1%	4	Metal film	33R		R1/4W
	R23 R33						
54	R89 R124	RES-1/4W, 3k,1%	2	Metal film	3k		R1/4W
	R122	RES-1/4W, 47R,1%	1	Metal film	47R		R1/4W
56	R4 R8-9 R13 R17-18 R24 R28-29 R34 R38-39	RES-1/4W, 4k7,1%	12	TWD carbon resistor	4k7		R1/4W
57	R49-50 R67-68	RES-1/4W, 4k7,1%	4	Metal film	4k7		R1/4W
58	R119	RES-1/4W, 56k,1%	1	Metal film	56k		R1/4W
59	R81-82	RES-1/4W, 5R1,1%	2	Metal film	5R1		R1/4W
60	R45-46 R63-64	RES-1/4W, 5k6,1%	4	Metal film	5k6		R1/4W
61	R88	RES-1/4W, 75R,1%	1	Metal film	75R		R1/4W
62	R83-84	RES-1/4W, 9k1,1%	2	Metal film	9k1		R1/4W
63	K1	RLY-RY5W-K, 5Vdc	1	Takamisawa	5Vdc		RLY-RY5W-K
64	U16	SM5842	1	NPC			DIP28-600
65	D1-8	TL431C	8	MOTOROLA			TO-92
66	R1-2 R10-11 R21-22 R31-32 R43-44 R61-62	VRES-TOP-AD J	12	20 turns type			VRES-TOP-A DJ
67	Y1	XTAL-FULL	1	TENT			XTAL-FULL- SIZE