

REV	Eng	Date:	Revision Description	ECN#
A	SJM	01/20/05	Conducted Emissions Reduction	ECN0020976
B				
C				
D				
E				
F				


INDEX

SHEET	DESCRIPTION
2	CHANNEL 1
3	CHANNEL 2
4	PCB LAYOUT

Note: All thru hole Resistors are 1/4 Watt unless otherwise indicated.
 All SMT 1206 Resistors are 1/4 Watt.
 All SMT 0805 Resistors are 1/10 Watt.
 Note Capacitor Values are indicated as Follows:
 val P = pF (picoFarads) val * 10 exp-12
 val N = nF (nanoFarads) val * 10 exp-9 (1N=1000pF, 100N=0.1uF)
 val U = uF (microFarads) val * 10 exp-6

PCB Assy No.: 99060053
 Bare PCB No.: 32101181
 Patents: U.S. 6,515,859
 Copyright Peavey Electronics Corporation 2005.

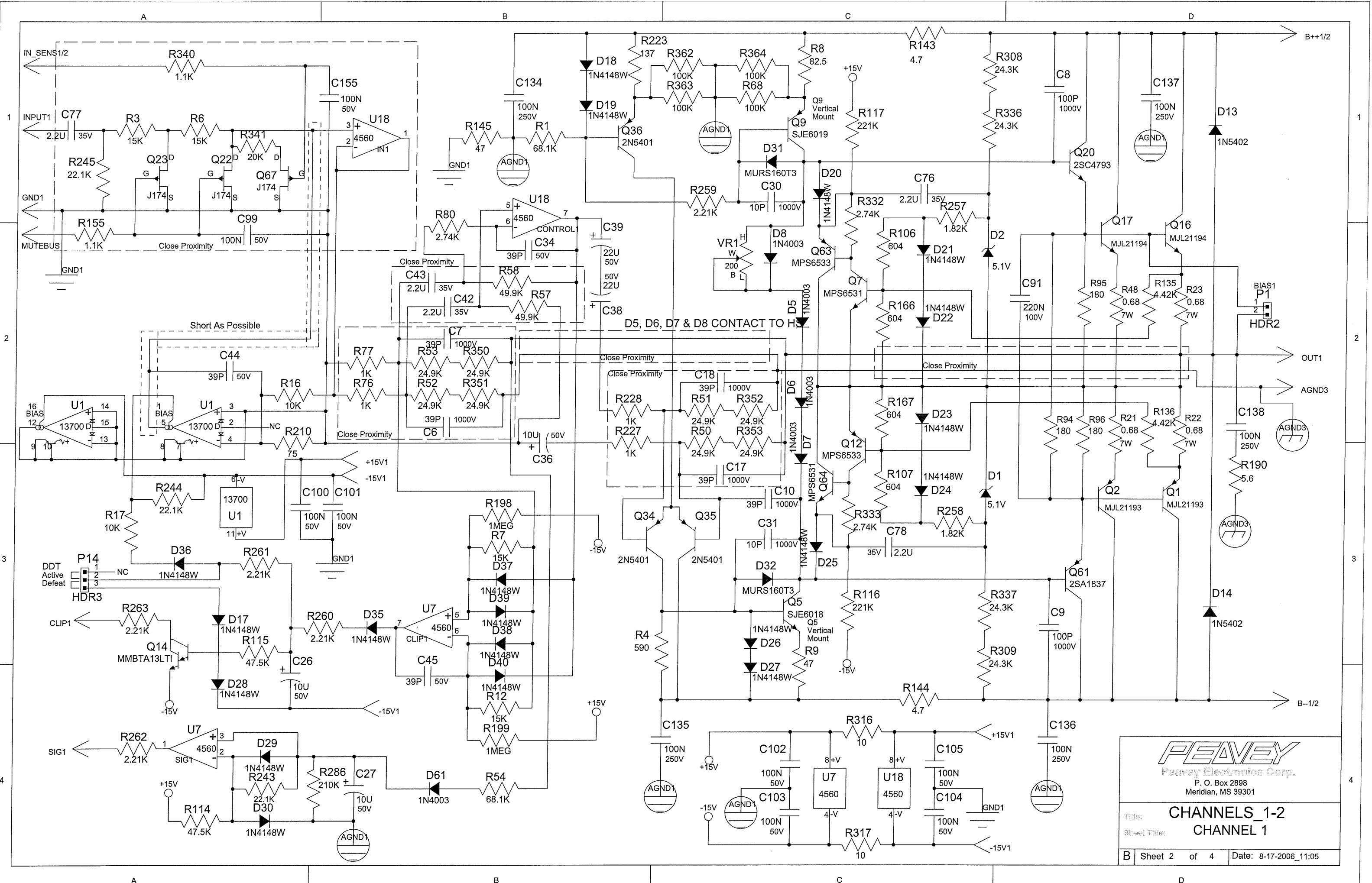
Company Proprietary Information



Peavey Electronics Corp.
 P. O. Box 2898
 Meridian, MS 39301

Product: ICS4200 4-Channel Amplifier
 Title: CHANNELS_1-2

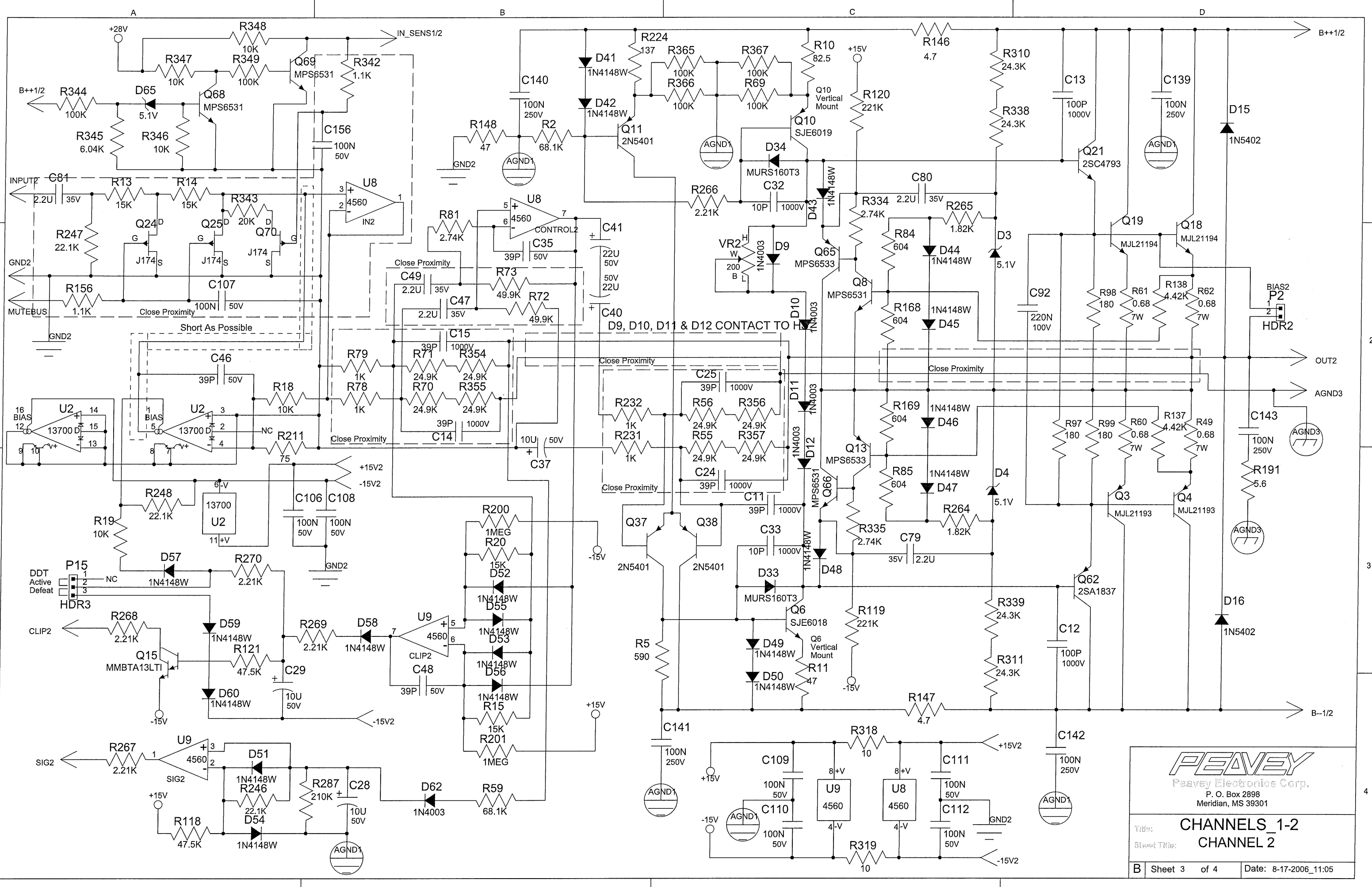
Project Number: I0100013
 Eng: SJM Release Date:
 Sheet 1 of 4 Saved: 8-17-2006_11:05



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 Meridian, MS 39301

Title: **CHANNELS_1-2**
 Channel: **CHANNEL 1**

B Sheet 2 of 4 Date: 8-17-2006_11:05

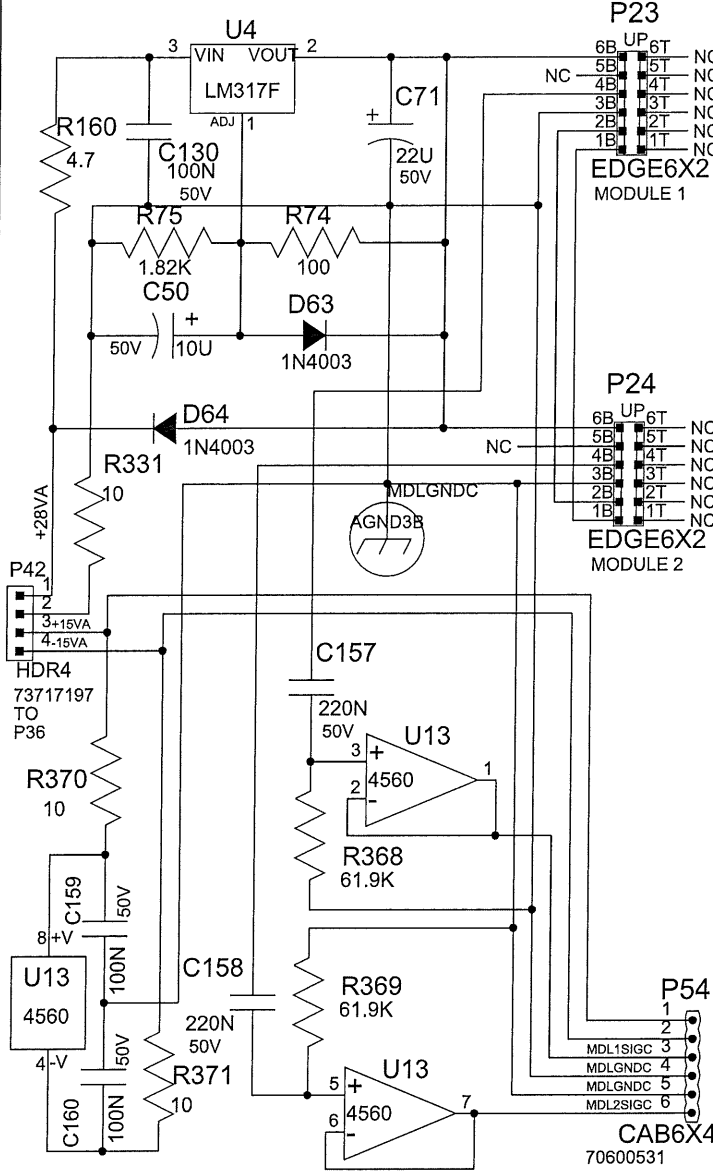


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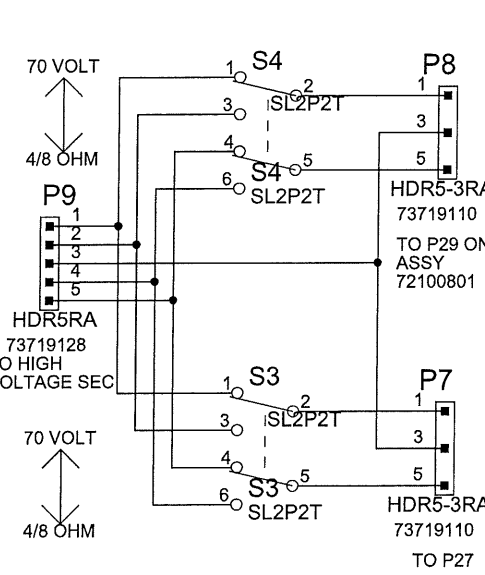
Title: **CHANNELS_1-2**
 Sheet Title: **CHANNEL 2**

B Sheet 3 of 4 Date: 8-17-2006_11:05

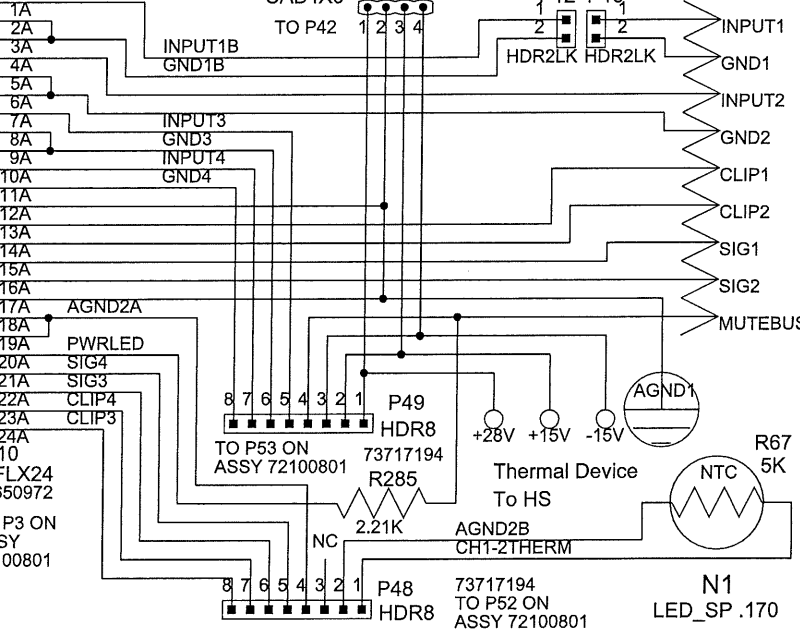
Board 2



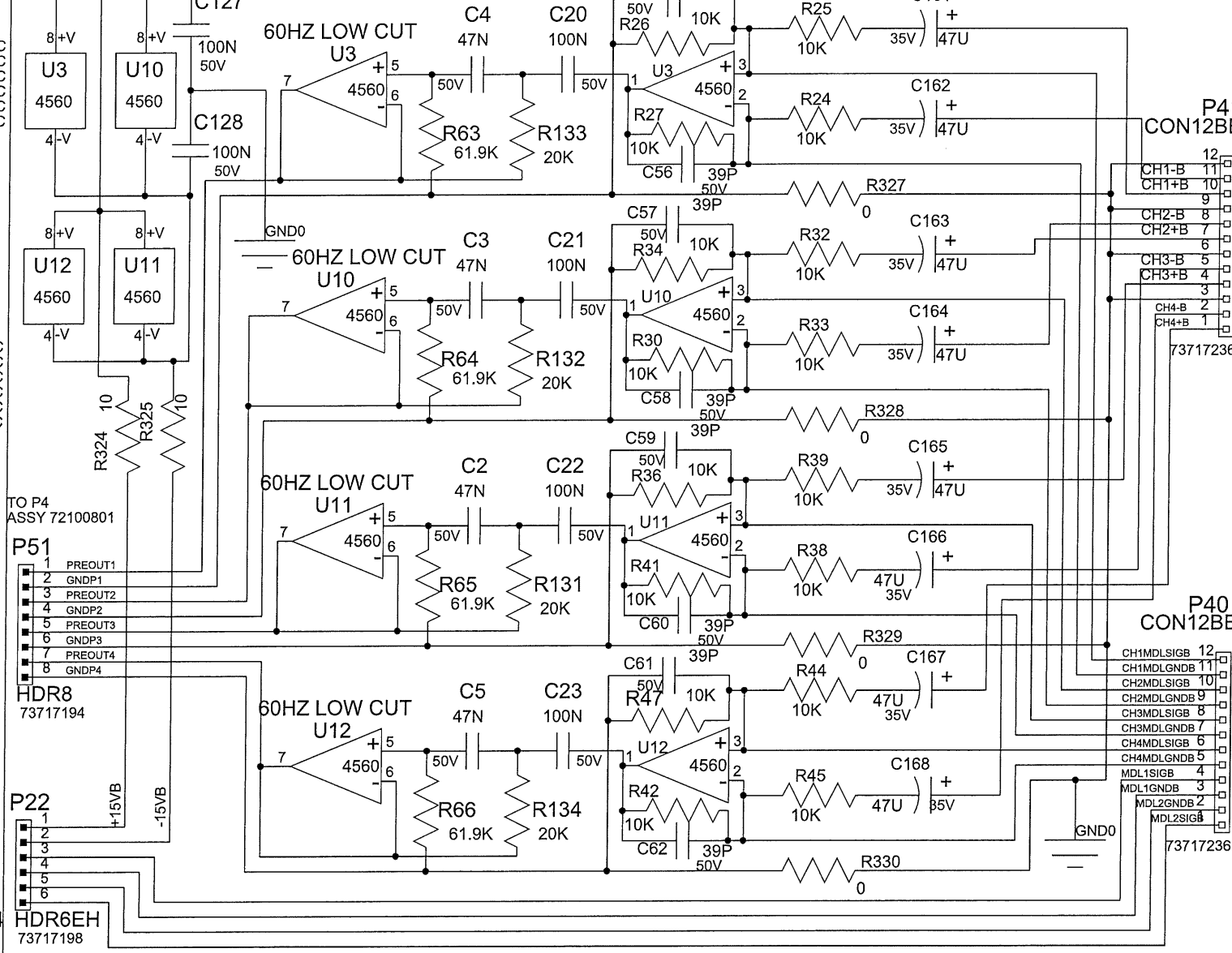
Board 3



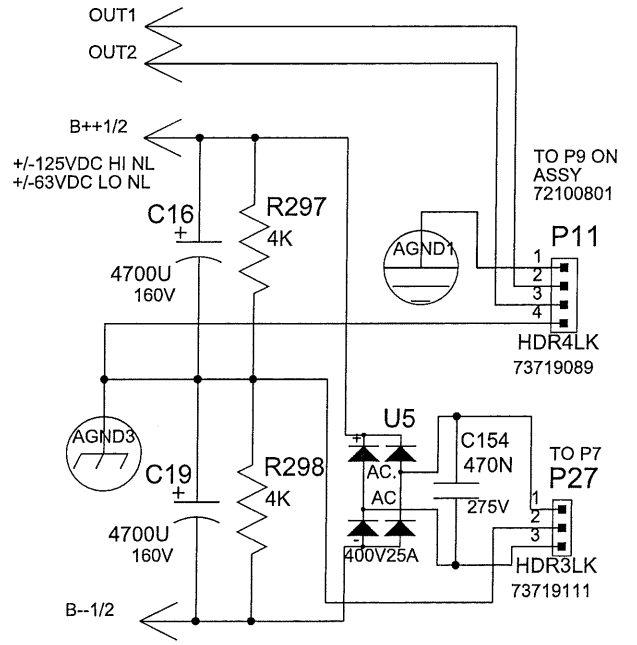
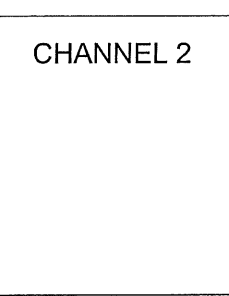
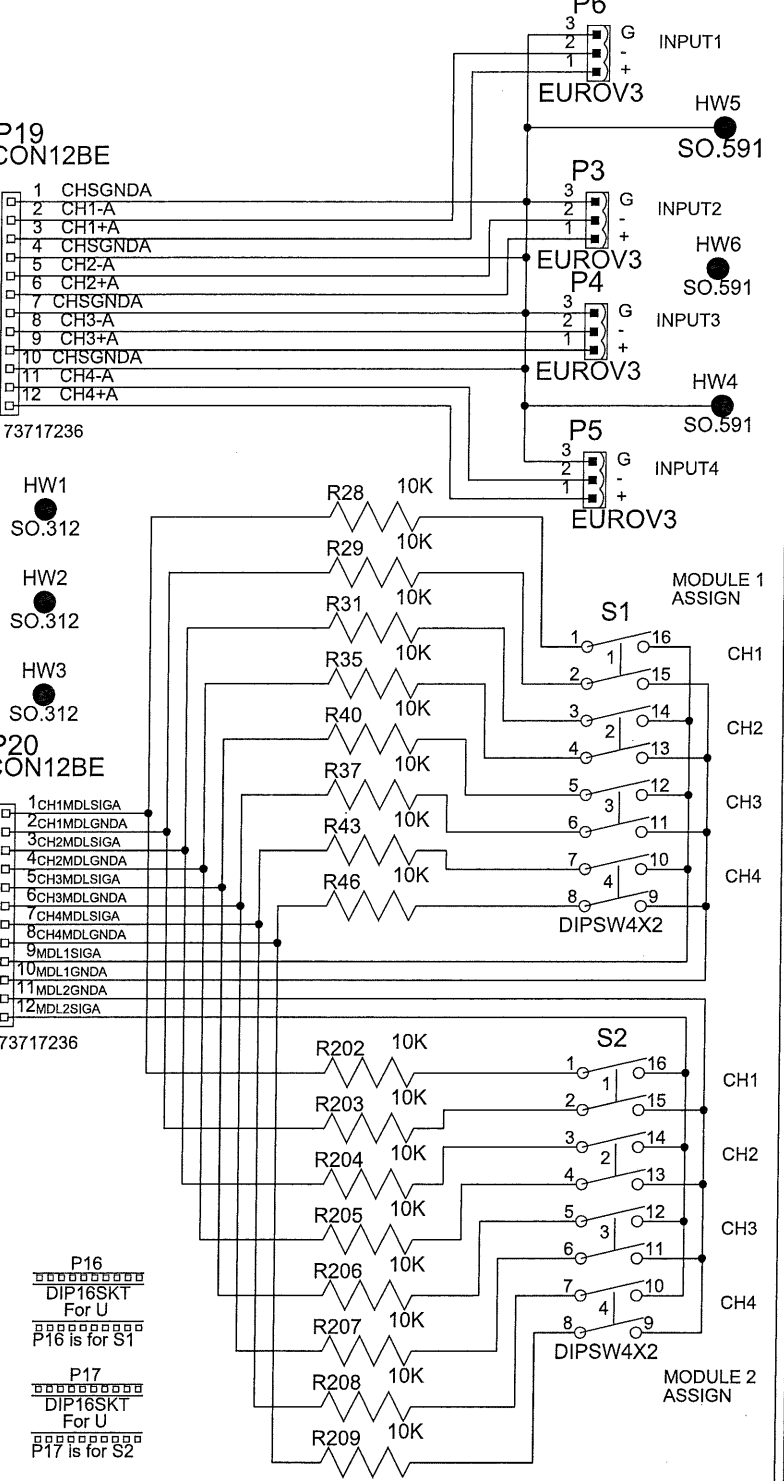
Board 1



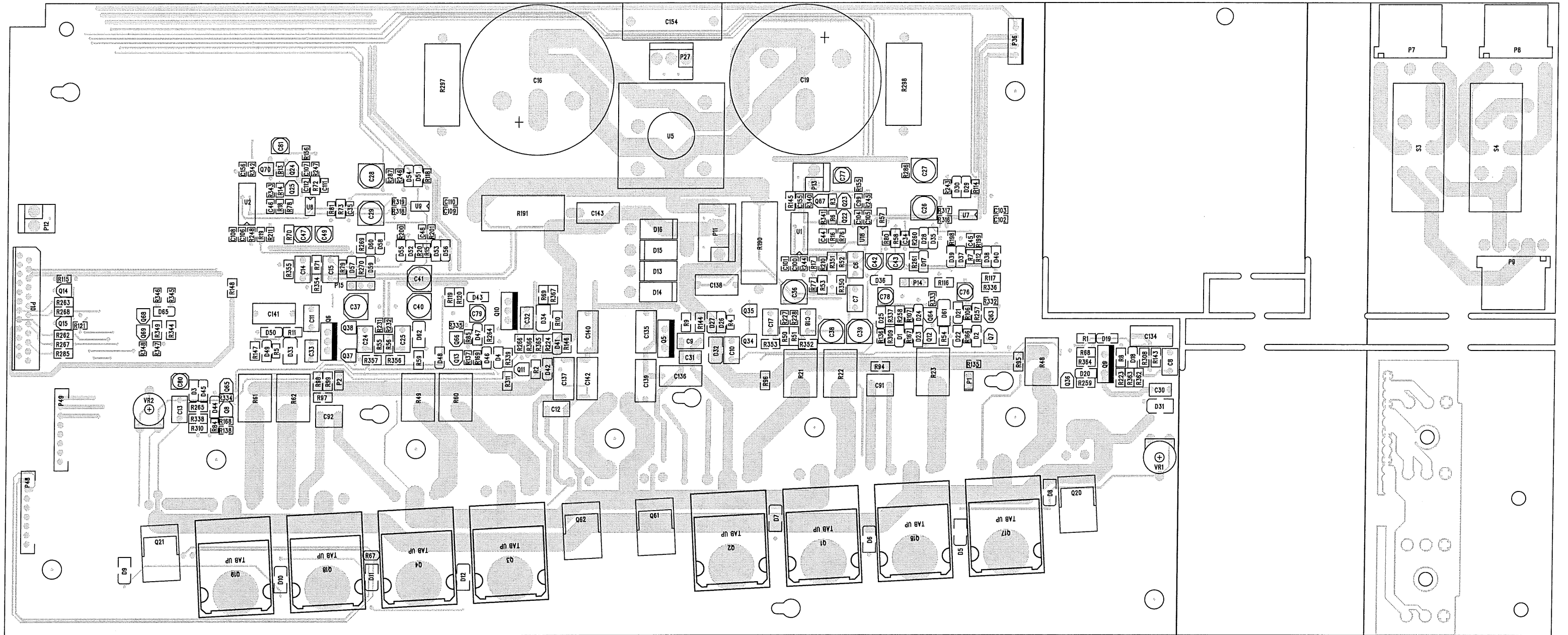
Board 4



Board 5



Title: CHANNELS_1-2
Sheet Title: PCB LAYOUT



BILL OF MATERIAL REPORT

REPORT DATE/TIME: 8/17/2006 5:55:35 PM

BOARD NAME: ICS4200 ASSEMBLY LEVEL NUMBER: 99060053

PROJECT NUMBER: I0100013 DESIGNER: RAH

Qty.	Part #	Description	Reference Designators
4	30418272	MURSI20T3 - SMT - SMB PKG	D31 D32 D33 D34
4	70200012	47 1/4W 5% MF 1206	R9 R11 R145 R148
6	70200015	180 1/4W 5% MF 1206	R94 R95 R96 R97 R98 R99
5	70200041	4.7 1/4W 5% MF 1206	R143 R144 R146 R147 R160
1	70200060	100 1/4W 1% MF 1206	R74
4	70200121	68.1K 1/4W 1% MF 1206	R1 R2 R54 R59
10	70200126	100K 1/4W 1% MF 1206	R68 R69 R344 R349 R362 R363 R364 R365 R366 R367
2	70200134	82.5 1/4W 1% MF 1206	R8 R10
2	70200139	137 1/4W 1% MF 1206	R223 R224
8	70200140	24.3K 1/4W 1% MF 1206	R308 R309 R310 R311 R336 R337 R338 R339
5	70200157	1.82K 1/4W 1% MF 1206	R75 R257 R258 R264 R265
6	70200167	20K 1/10W 1% MF 0805	R131 R132 R133 R134 R341 R343
39	70200174	10K 1/10W 1% MF 0805	R16 R17 R18 R19 R24 R25 R26 R27 R28 R29 R30 R31 R32 R33 R34 R35 R36 R37 R38 R39 R40 R41 R42 R43 R44 R45 R46 R47

4	70200175	1.1K	1/10W 1% MF	0805	R155 R156 R340 R342
2	70200180	75	1/10W 1% MF	0805	R210 R211
2	70200185	590	1/10W 1% MF	0805	R4 R5
8	70200186	604	1/10W 1% MF	0805	R84 R85 R106 R107 R166 R167 R168 R169
8	70200188	1.00K	1/10W 1% MF	0805	R76 R77 R78 R79 R227 R228 R231 R232
4	70200195	1.00M	1/10W 1% MF	0805	R198 R199 R200 R201
9	70200196	10	1/10W 1% MF	0805	R316 R317 R318 R319 R324 R325 R331 R370 R371
4	70200205	47.5K	1/10W 1% MF	0805	R114 R115 R118 R121
2	70200211	210K	1/10W 1% MF	0805	R286 R287
11	70200214	2.21K	1/4W 1% MF	1206	R259 R260 R261 R262 R263 R266 R267 R268 R269 R270 R285
4	70200215	221K	1/4W 1% MF	1206	R116 R117 R119 R120
6	70200248	2.74K	1/10W 1% MF	0805	R80 R81 R332 R333 R334 R335
6	70200256	22.1K	1/10W 1% MF	0805	R243 R244 R245 R246 R247 R248
4	70200281	0.0	JUMPER	0.1 0603	R327 R328 R329 R330
1	70200327	6.04K	1/10W 1% MF	0805	R345
6	70200332	61.9K	1/10W 1% MF	0805	R63 R64 R65 R66 R368 R369
8	70200334	15.0K	1/10W 1% MF	0805	R3 R6 R7 R12 R13 R14 R15 R20
16	70200370	24.9K	1/4W 1% MF	1206	R50 R51 R52 R53

R55 R56 R70 R71
R350 R351 R352 R353
R354 R355 R356 R357

4 70200371 49.9K 1/4W 1% MF 1206 R57 R58 R72 R73

4 70200392 4.42K 1/10W 1% MF 0805 R135 R136 R137 R138

1 70240217 5K THERMISTOR 1% R67

8 70250167 .68 7W 5% WW RADH R21 R22 R23 R48
R49 R60 R61 R62

2 70300069 0.22UF 50V 10% X7R 1206 C157 C158

8 70300079 47UF 35V 20% EL SMT6 C161 C162 C163 C164
C165 C166 C167 C168

10 70300084 2.2UF 35V 20% ELN SMT4 C42 C43 C47 C49
C76 C77 C78 C79
C80 C81

21 70300085 0.1UF 50V 80-20% Z5U 0805 C99 C100 C101 C102
C103 C104 C105 C106
C107 C108 C109 C110
C111 C112 C127 C128
C130 C155 C156 C159
C160

14 70300087 39PF 50V 5% NPO 0805 C34 C35 C44 C45
C46 C48 C55 C56
C57 C58 C59 C60
C61 C62

5 70300099 22UF 50V 20% EL SMT6 C38 C39 C40 C41
C71

4 70300121 0.1UF 50V 5% X7R 0805 C20 C21 C22 C23

4 70300171 0.047UF 50V 5% X7R 0805 C2 C3 C4 C5

7 70300178 10UF 50V 20% EL SMT6 C26 C27 C28 C29
C36 C37 C50

10 70320096 0.1UF 250V 10% PE RADH C134 C135 C136 C137
C138 C139 C140 C141
C142 C143

4 70320249 10PF 1000V 80-20% Z5U RAD C30 C31 C32 C33

1	70320271	0.01UF 1000V 80-20% Z5U RAD	C154
2	70320412	4700UF 160V 20% EL SNPH4	C16 C19
10	70320441	39PF 1000V 20% Z5F RAD	C6 C7 C10 C11 C14 C15 C17 C18 C24 C25
4	70320442	100PF 1000V 20% Z5F RAD	C8 C9 C12 C13
2	70330114	0.22UF 100V 5% PES RAD	C91 C92
4	70400193	MJL21193 PNP 250V 16A	Q1 Q2 Q3 Q4
4	70400194	MJL21194 NPN 250V 16A	Q16 Q17 Q18 Q19
1	70400316	LM317 ADJ VR INSUL TO220F	U4
4	70400502	MRS502/1N5402 200V 3A DIOD	D13 D14 D15 D16
2	70401837	2SA1837 PNP TO-220 230V	Q61 Q62
1	70402504	BR RECT 400V 25A WIRE IDS	U5
2	70404793	2SC4793 NPN TO-220 230V	Q20 Q21
2	70406018	SJE-6018 CASE-77 NPN	Q5 Q6
2	70406019	SJE-6019 CASE-77 PNP	Q9 Q10
4	70418033	MPS6533/34 PNP SMT	Q12 Q13 Q63 Q65
2	70418051	MMBT131FT NPN DARL. SMT	Q14 Q15
9	70418053	4560 DUAL OPAMP SO8	U3 U7 U8 U9 U10 U11 U12 U13 U18
6	70418136	2N5401 PNP SOT23	Q11 Q34 Q35 Q36 Q37 Q38
6	70418139	J-174 P-JEET 30V SOT23	Q22 Q23 Q24 Q25 Q67 Q70
6	70418191	MPS-6531 NPN TRANS. SMT	Q7 Q8 Q64 Q66 Q68 Q69
2	70418231	NJM13700 DUAL OTA SMT	U1 U2
12	70418261	1N4003 - SMT - SMA PKG	D5 D6 D7 D8 D9 D10 D11 D12

40	70418328	1N4148W SWITCHING DIODE	D61 D62 D63 D64
5	70418389	5.1V ZENER (SOD123)-SMT	D1 D2 D3 D4 D65
1	70600531	6C 2.5MM WPCB JST-EHR 4"	P54
1	70600532	4C 2.5MM WPCB JST-EHR 6"	P36
1	70650972	24 FLAT FLEX CONN TH HOLE	P10
3	70900787	STND .312 T4-40, SW, AL	HW1 HW2 HW3
1	70901837	STND .591 T4-40, SW, AL	HW6
2	70901889	STND .591 T4-40, SW, NB	HW4 HW5
2	71190137	200B SINGL 10MM TRM VER	VR1 VR2
2	71322231	SWITCH DPDT SLIDE PC V	S3 S4
2	71322440	SWITCH 4X2P1T DIP PC V	S1 S2
2	71466084	16 PIN DIP IC SOCKET	P16 P17
2	71600259	5.6 5W 10% WW AXLH SL	R190 R191
2	71600263	4K 5W 10% WW AXLH SL	R297 R298
4	73700233	3P VER EURO HDR BLK 5.08	P3 P4 P5 P6
2	73716922	6X2 EDGE CONN .156GLD	P23 P24
2	73717052	3 HDR V SR .100" TIN	P14 P15
2	73717122	2 HDR V SR .100" TIN	P1 P2
3	73717194	8 HDR V JST-EHR 2.5MM TIN	P48 P49 P51
1	73717197	4 HDR V JST-EHR 2.5MM TIN	P42
1	73717198	6 HDR V JST-EHR 2.5MM TIN	P22

4	73717236	12 CON BE SR .100" GLD	P19 P20 P40 P41
1	73719089	4 HDR V SR .156" TIN LK	P11
2	73719107	2 HDR V SR .156" TIN LK	P12 P13
2	73719110	3 HDR H SR .312/156" TIN LK	P7 P8
1	73719111	3 HDR V SR .156" TIN LK	P27
1	73719128	5 HDR H SR .156" TIN	P9

END OF BILL OF MATERIAL REPORT
