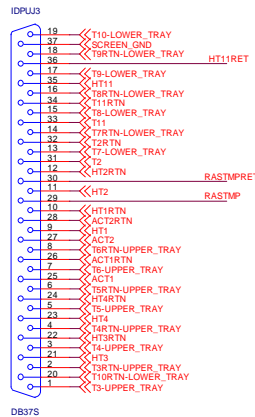
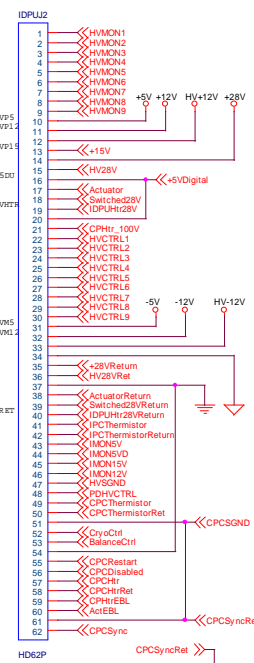


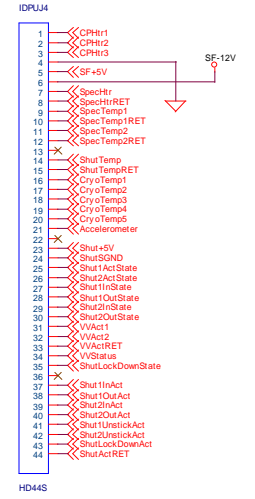
TO IMAGER



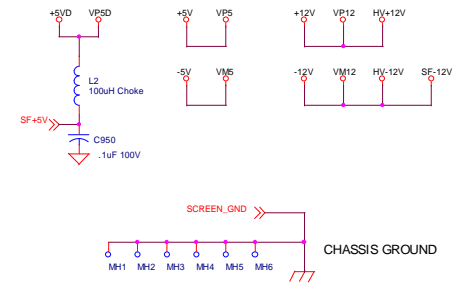
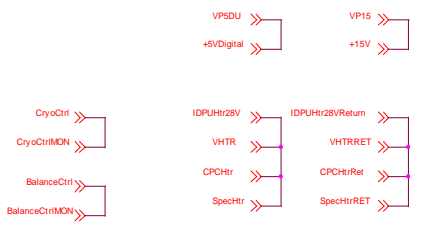
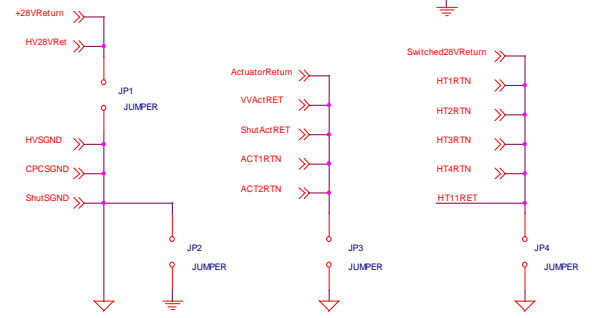
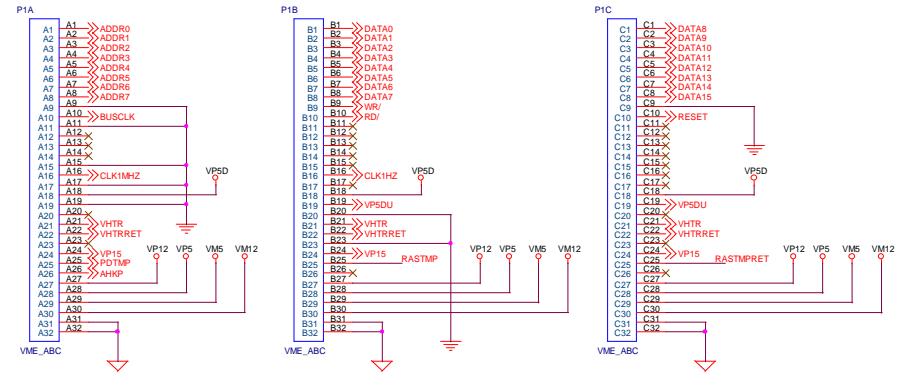
TO IPC/CPC



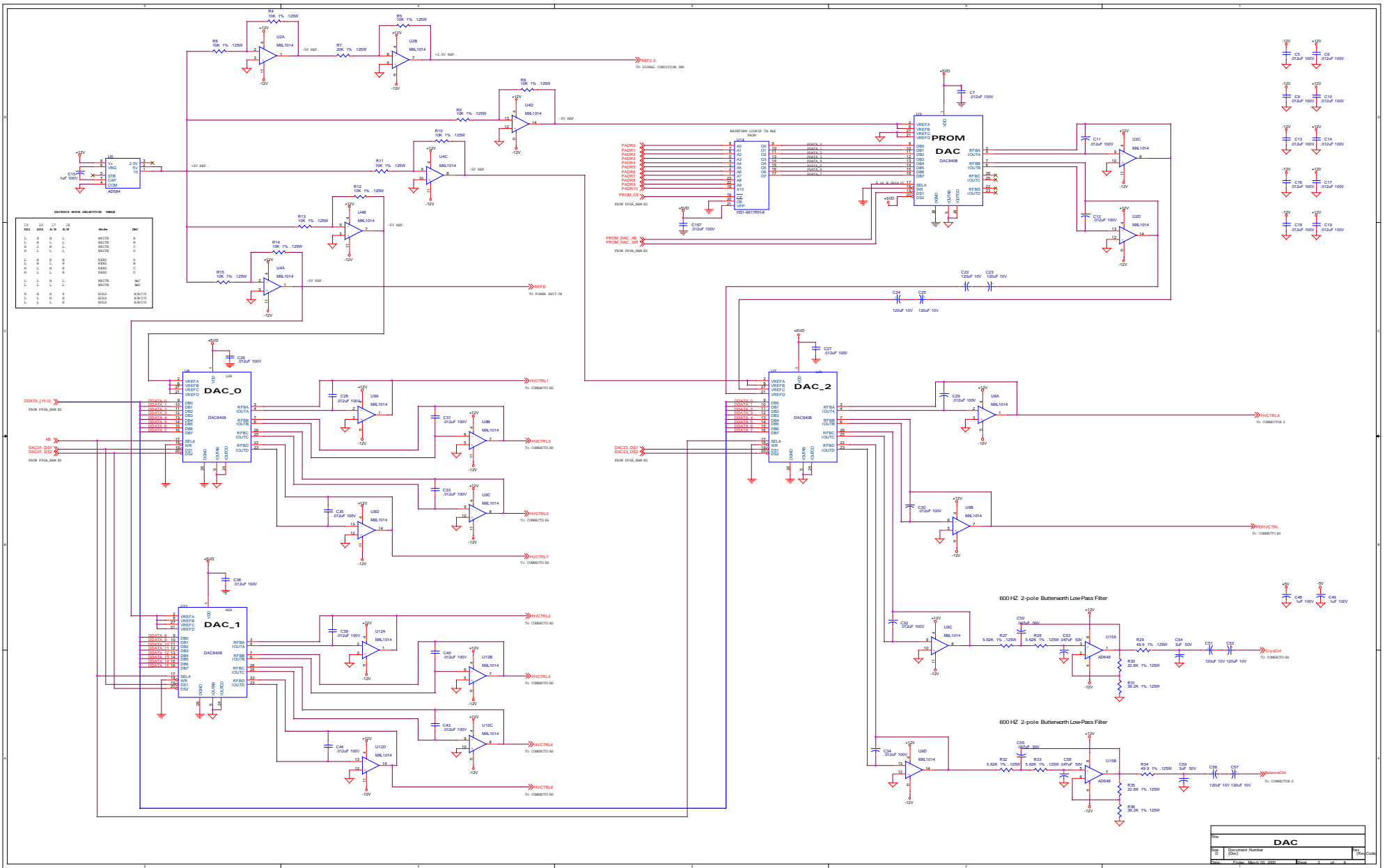
TO SPECTROMETER



VME BUS



Title			Rev (Rev Code)
CONNECTORS			
Size C	Document Number (Doc)		
Date: Monday, March 06, 2000	Sheet 2	of 8	



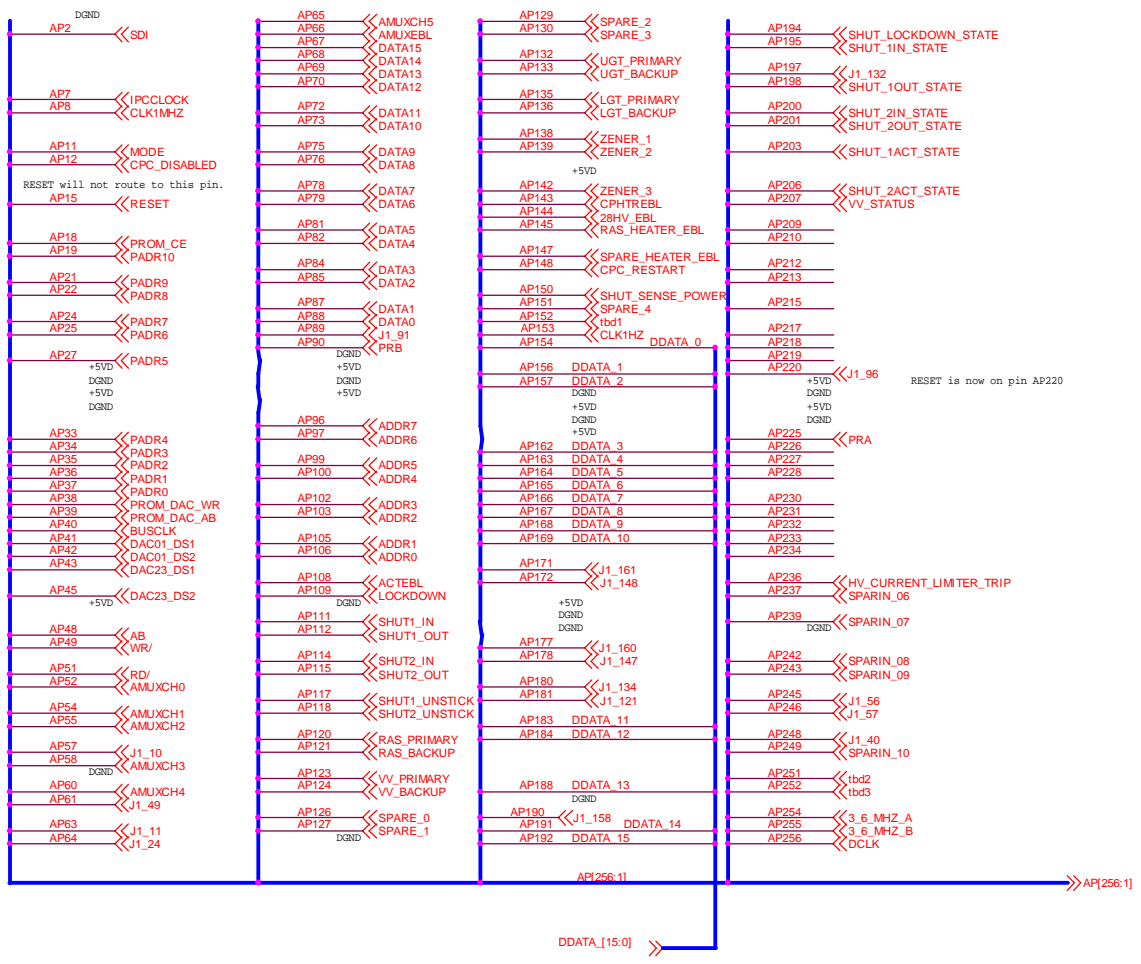
DAC4848 MODE SELECTION TABLE

LS	LS	LS	LS	MODE	MODE
MSB	MSB	A/D	B/W		
0	0	0	0	0	0
0	0	0	1	0	1
0	0	1	0	1	0
0	0	1	1	1	1
0	1	0	0	2	0
0	1	0	1	2	1
0	1	1	0	3	0
0	1	1	1	3	1
1	0	0	0	4	0
1	0	0	1	4	1
1	0	1	0	5	0
1	0	1	1	5	1
1	1	0	0	6	0
1	1	0	1	6	1
1	1	1	0	7	0
1	1	1	1	7	1

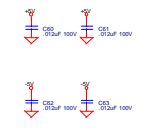
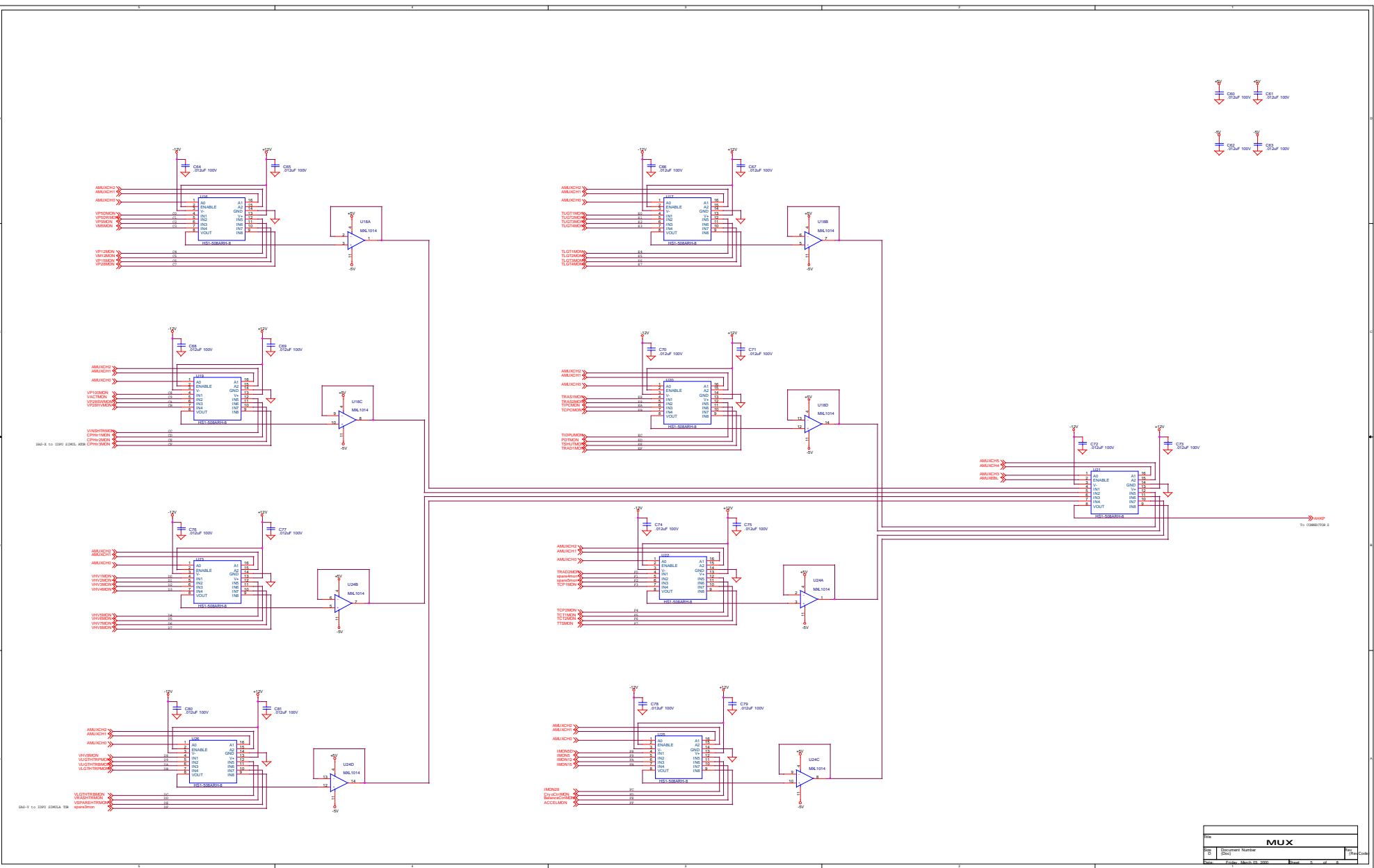
DAC

Sheet Number: 1 of 1

Rev: 1.0



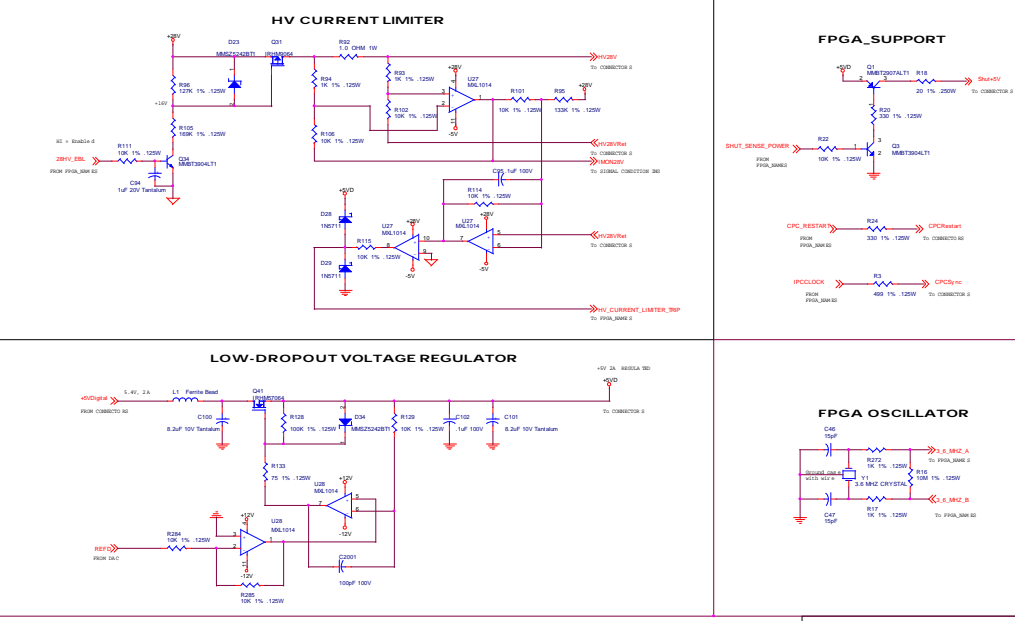
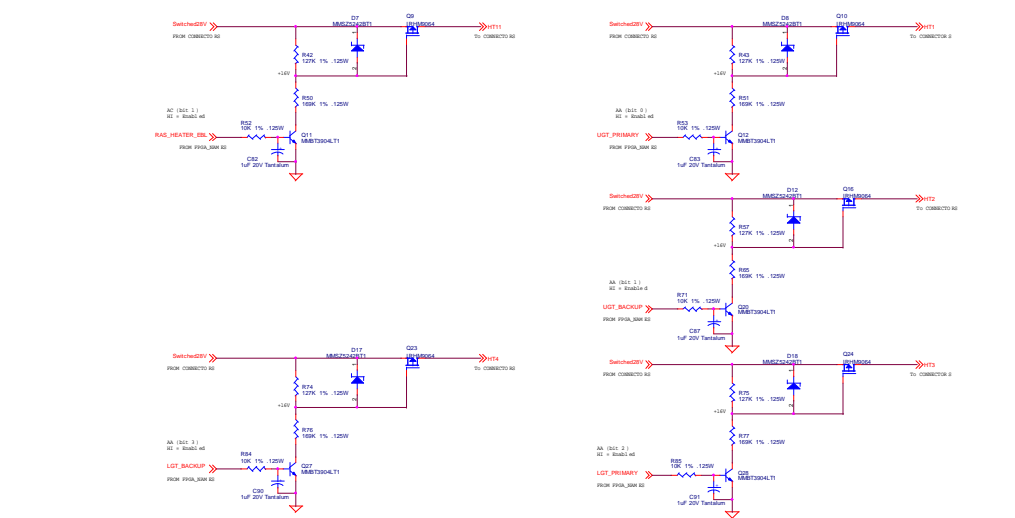
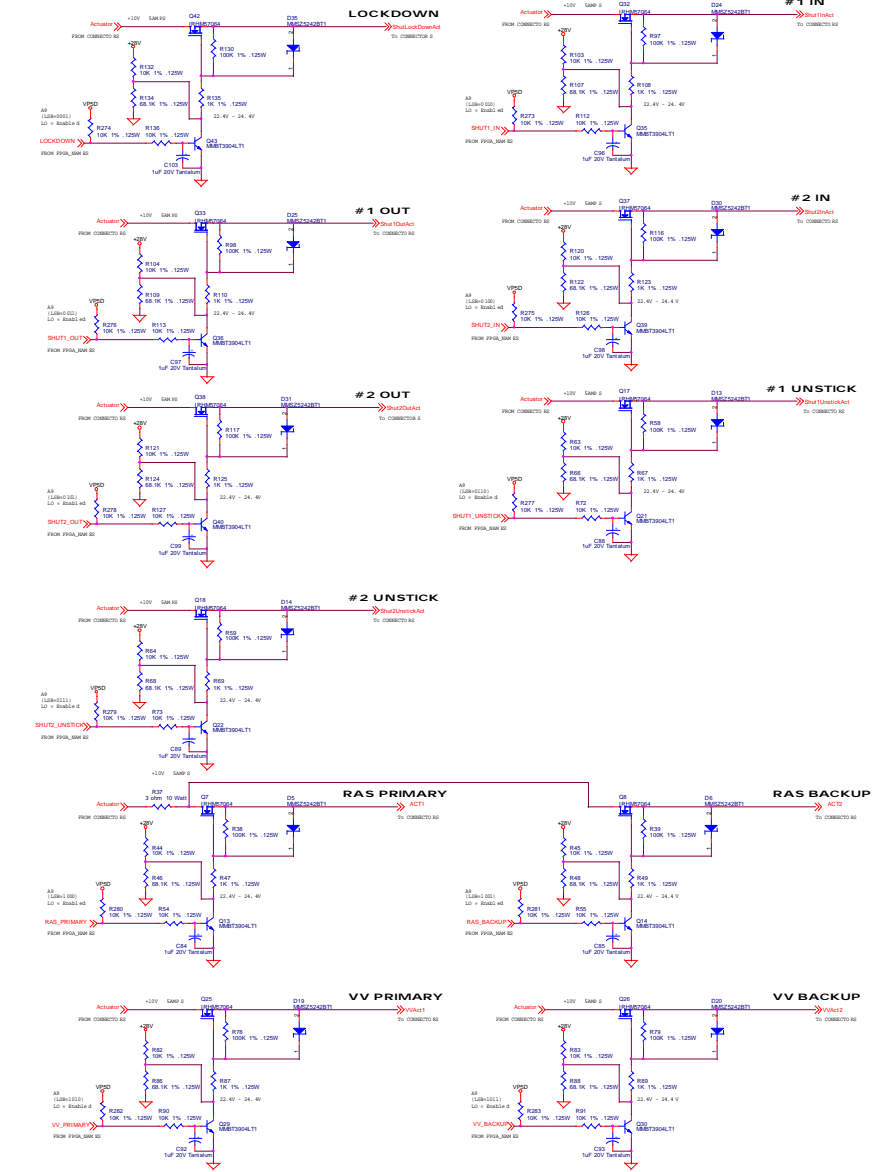
Title		
HESSI POWER CONTROLLER FPGA PINOUT		
Size	Document Number	Rev
B	(Doc)	(Rev Code)
Date:	Friday, March 03, 2000	Sheet 1 of 8



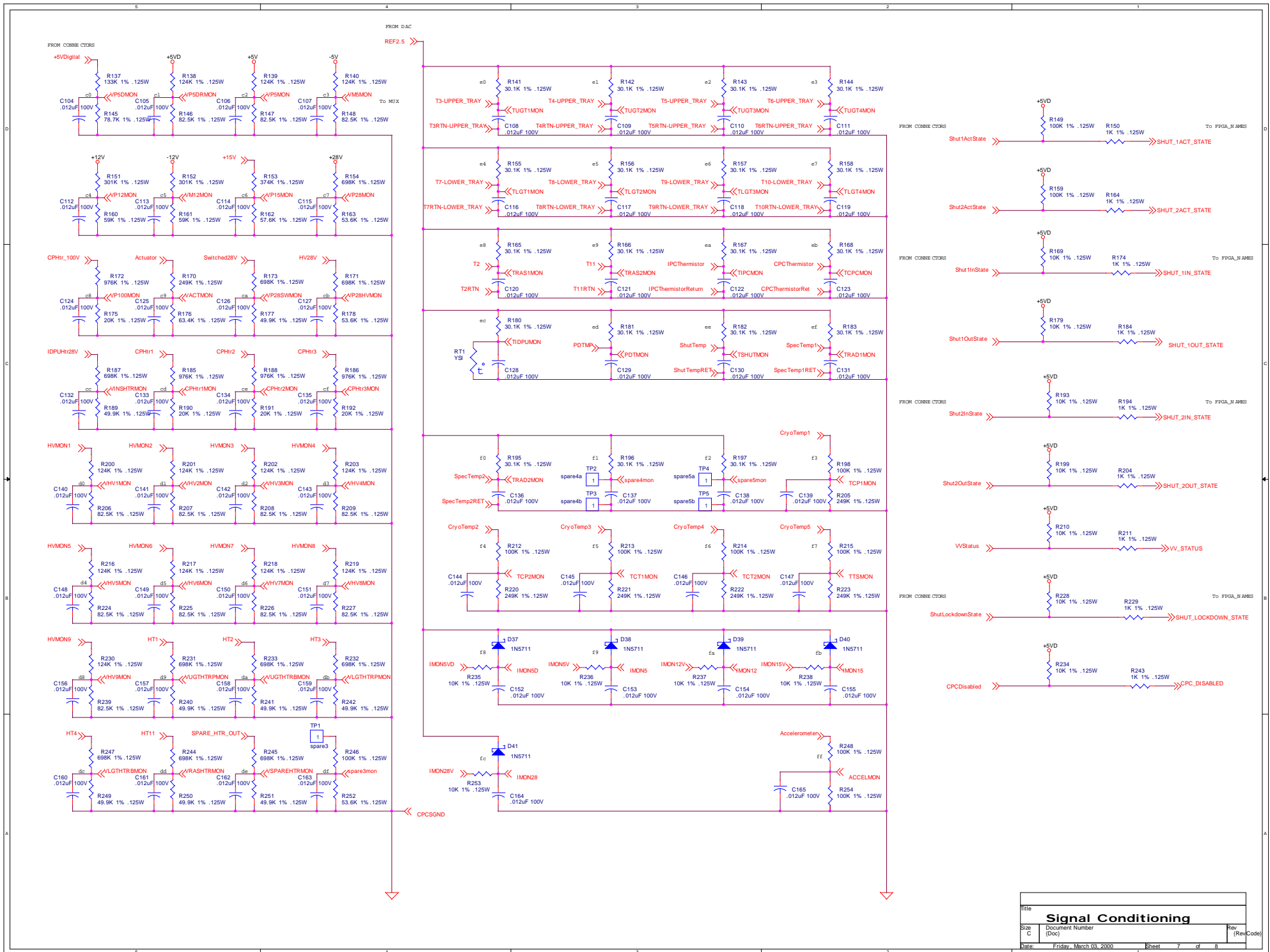
MUX	
Rev	Document Number
1.0	1000000000
1.0	1.0
1.0	1.0

N FETS

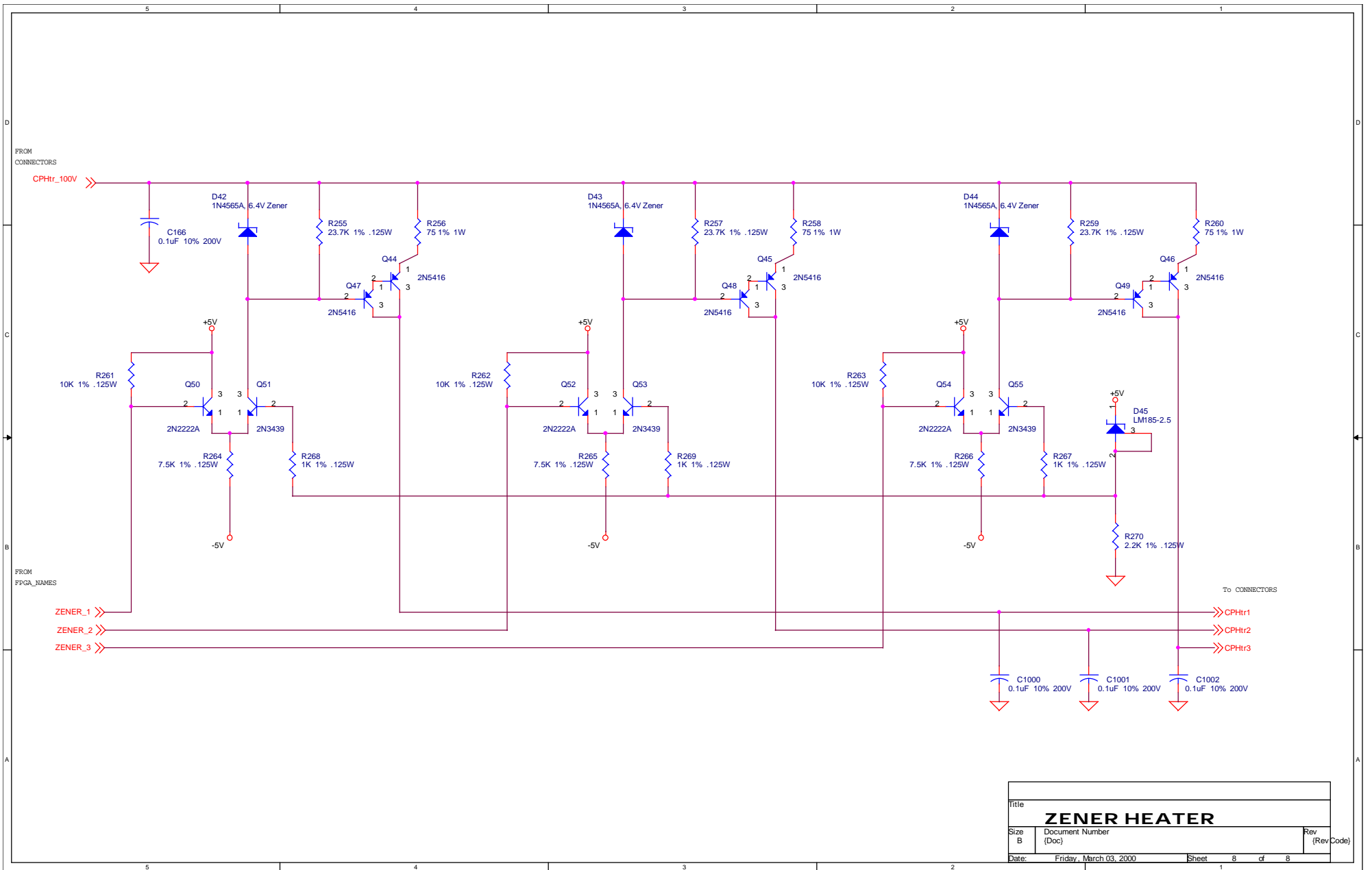
P FETS



POWER SWITCH	
REV	DATE
1	08/01/2010
DESIGNED BY	DATE
REV	DATE
1	08/01/2010
DESIGNED BY	DATE
REV	DATE
1	08/01/2010



Title			
Signal Conditioning			
Size	Document Number		Rev
C	(Doc)		(Rev Code)
Date:	Friday, March 03, 2000	Sheet	7 of 8



Title		
ZENER HEATER		
Size B	Document Number (Doc)	Rev (Rev Code)
Date:	Friday, March 03, 2000	Sheet 1 of 8

1: HESSI POWER CONTROLLER Revised: Friday, March 03, 2000
 2: Revision:
 3:
 4: UC Berkeley
 5: Space Sciences Lab
 6:
 7:
 8:
 9:
 10: Bill Of Materials March 3,2000 12:35:47 Page1
 11:

Item	Quantity	Reference	Part
15: 1	12	C1,C2,C3,C4,C15,C48,C49, C95,C102,C950,C1003, C2000	.1uF 100V
18: 2	113	C5,C6,C7,C9,C10,C11,C12, C13,C14,C16,C17,C18,C19, C26,C27,C28,C29,C30,C31, C32,C33,C34,C35,C36,C39, C40,C43,C44,C60,C61,C62, C63,C64,C65,C66,C67,C68, C69,C70,C71,C72,C73,C74, C75,C76,C77,C78,C79,C80, C81,C104,C105,C106,C107, C108,C109,C110,C111,C112, C113,C114,C115,C116,C117, C118,C119,C120,C121,C122, C123,C124,C125,C126,C127, C128,C129,C130,C131,C132, C133,C134,C135,C136,C137, C138,C139,C140,C141,C142, C143,C144,C145,C146,C147, C148,C149,C150,C151,C152, C153,C154,C155,C156,C157, C158,C159,C160,C161,C162, C163,C164,C165,C167	.012uF 100V
39: 3	8	C22,C23,C24,C25,C51,C52, C56,C57	120uF 10V
41: 4	2	C46,C47	15pF
42: 5	4	C50,C53,C55,C58	.047uF 50V
43: 6	2	C59,C54	3uF 50V
44: 7	17	C82,C83,C84,C85,C87,C88, C89,C90,C91,C92,C93,C94, C96,C97,C98,C99,C103	1uF 20V Tantalum
47: 8	2	C101,C100	8.2uF 10V Tantalum
48: 9	4	C166,C1000,C1001,C1002	0.1uF 10% 200V
49: 10	1	C2001	100pF 100V
50: 11	18	D5,D6,D7,D8,D12,D13,D14, D17,D18,D19,D20,D23,D24, D25,D30,D31,D34,D35	MMSZ5242BT1
53: 12	7	D28,D29,D37,D38,D39,D40, D41	1N5711
55: 13	3	D42,D43,D44	1N4565A, 6.4V Zener
56: 14	1	D45	LM185-2.5
57: 15	1	D46	1N6642
58: 16	1	IDPUJ2	HD62P
59: 17	1	IDPUJ3	DB37S
60: 18	1	IDPUJ4	HD44S
61: 19	4	JP1,JP2,JP3,JP4	JUMPER
62: 20	1	JP5	HEADER 7
63: 21	1	J1	CONNECTOR PGA-169
64: 22	1	L1	Ferrite Bead
65: 23	1	L2	100uH Choke
66: 24	6	MH1,MH2,MH3,MH4,MH5,MH6	MTG_HOLE
67: 25	1	P1	VME_ABC
68: 26	1	Q1	MMBT2907ALT1
69: 27	18	Q3,Q11,Q12,Q13,Q14,Q20, Q21,Q22,Q27,Q28,Q29,Q30, Q34,Q35,Q36,Q39,Q40,Q43	MMBT3904LT1
72: 28	12	Q7,Q8,Q17,Q18,Q25,Q26, Q32,Q33,Q37,Q38,Q41,Q42	IRHM57064
74: 29	6	Q9,Q10,Q16,Q23,Q24,Q31	IRHM9064
75: 30	6	Q44,Q45,Q46,Q47,Q48,Q49	2N5416
76: 31	3	Q50,Q52,Q54	2N2222A
77: 32	3	Q51,Q53,Q55	2N3439
78: 33	1	RT1	YSI
79: 34	75	R1,R4,R5,R6,R8,R9,R10, R11,R12,R13,R14,R15,R22, R44,R45,R52,R53,R54,R55, R63,R64,R71,R72,R73,R82, R83,R84,R85,R90,R91,R101, R102,R103,R104,R106,R111, R112,R113,R114,R115,R120, R121,R126,R127,R129,R132, R136,R169,R179,R193,R199, R210,R228,R234,R235,R236, R237,R238,R253,R261,R262, R263,R273,R274,R275,R276, R277,R278,R279,R280,R281,	10K 1% .125W

92: R282,R283,R284,R285
93: 35 1 R3 499 1% .125W
94: 36 5 R7,R175,R190,R191,R192 20K 1% .125W
95: 37 1 R16 10M 1% .125W
96: 38 27 R17,R47,R49,R67,R69,R87, 1K 1% .125W
97: R89,R93,R94,R108,R110,
98: R123,R125,R135,R150,R164,
99: R174,R184,R194,R204,R211,
100: R229,R243,R267,R268,R269,
101: R272
102: 39 1 R18 20 1% .250W
103: 40 2 R20,R24 330 1% .125W
104: 41 4 R27,R28,R32,R33 5.62K 1% .125W
105: 42 2 R34,R29 49.9 1% .125W
106: 43 2 R35,R30 22.6K 1% .125W
107: 44 2 R31,R36 39.2K 1% .125W
108: 45 1 R37 3 ohm 10 Watt
109: 46 22 R38,R39,R58,R59,R78,R79, 100K 1% .125W
110: R97,R98,R116,R117,R128,
111: R130,R149,R159,R198,R212,
112: R213,R214,R215,R246,R248,
113: R254
114: 47 6 R42,R43,R57,R74,R75,R96 127K 1% .125W
115: 48 11 R46,R48,R66,R68,R86,R88, 68.1K 1% .125W
116: R107,R109,R122,R124,R134
117: 49 6 R50,R51,R65,R76,R77,R105 169K 1% .125W
118: 50 1 R92 1.0 OHM 1W
119: 51 2 R95,R137 133K 1% .125W
120: 52 1 R133 75 1% .125W
121: 53 12 R138,R139,R140,R200,R201, 124K 1% .125W
122: R202,R203,R216,R217,R218,
123: R219,R230
124: 54 19 R141,R142,R143,R144,R155, 30.1K 1% .125W
125: R156,R157,R158,R165,R166,
126: R167,R168,R180,R181,R182,
127: R183,R195,R196,R197
128: 55 1 R145 78.7K 1% .125W
129: 56 12 R146,R147,R148,R206,R207, 82.5K 1% .125W
130: R208,R209,R224,R225,R226,
131: R227,R239
132: 57 2 R151,R152 301K 1% .125W
133: 58 1 R153 374K 1% .125W
134: 59 10 R154,R171,R173,R187,R231, 698K 1% .125W
135: R232,R233,R244,R245,R247
136: 60 2 R160,R161 59K 1% .125W
137: 61 1 R162 57.6K 1% .125W
138: 62 2 R163,R178 53.6K 1% .125W
139: 63 6 R170,R205,R220,R221,R222, 249K 1% .125W
140: R223
141: 64 4 R172,R185,R186,R188 976K 1% .125W
142: 65 1 R176 63.4K 1% .125W
143: 66 8 R177,R189,R240,R241,R242, 49.9K 1% .125W
144: R249,R250,R251
145: 67 1 R252 53.6K 1% .125W
146: 68 3 R255,R257,R259 23.7K 1% .125W
147: 69 3 R256,R258,R260 75 1% 1W
148: 70 3 R264,R265,R266 7.5K 1% .125W
149: 71 1 R270 2.2K 1% .125W
150: 72 1 R271 1M 1% .125W
151: 73 1 R2000 100 1% .125W
152: 74 1 TP1 spare3
153: 75 1 TP2 spare4a
154: 76 1 TP3 spare4b
155: 77 1 TP4 spare5a
156: 78 1 TP5 spare5b
157: 79 1 U1 A14100A -CQ256
158: 80 9 U2,U4,U8,U9,U12,U18,U24, MXL1014
159: U27,U28
160: 81 4 U3,U6,U7,U11 DAC8408
161: 82 1 U5 AD584
162: 83 1 U14 HS1-6617RH-8
163: 84 1 U15 AD648
164: 85 9 U16,U17,U19,U20,U21,U22, HS1-508ARH-8
165: U23,U25,U26
166: 86 1 Y1 3.6 MHZ CRYSTAL
167:

