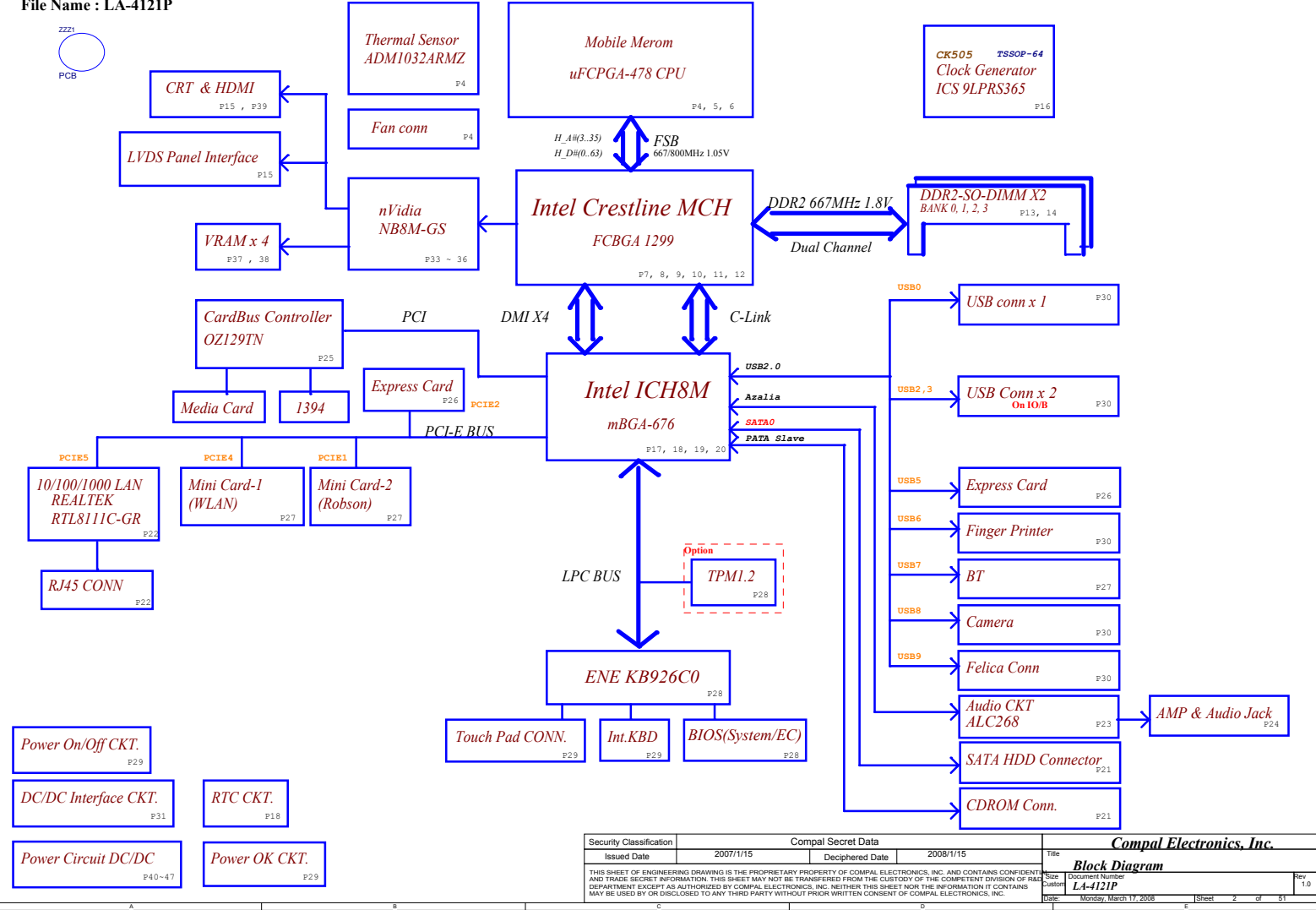


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JAL30 UMA/Discrete



O MEANS ON X MEANS OFF

Power plane State	+B	+5VALW +3VALW	+1.8V	+5VS +3VS +1.8VS +1.5VS +1.25VS +1.2VS +CPU_CORE +VGA_CORE +VCCP	CLOCK
S0	O	O	O	O	O
S3	O	O	O	X	O
S5 S4/AC	O	O	X	X	O
S5 S4/ Battery only	O	X	X	X	X
S5 S4/AC & Battery don't exist	X	X	X	X	X

O MEANS ON
X MEANS OFF

```
S3 : STR
S4 : STD
S5 : SOFT OFF
```

External PCI Devices

Device	IDSEL#	REQ#/GNT#	Interrupts
CardBus	AD21	0	PIRQE/PIRQF/PIRQG

EC SM Bus1 address

Device	Address	Device	Address
Smart Battery	0001 011X b?	ADM1032	4D
EEPROM(24C16/02)	1010 000X b?		
(24C04)	1011 000Xb?		

ICH7 SM Bus address

Device	Address
Clock Generator (ICS ICS9LPR310)	1101 001Xb?
DDRII DIMM0	1001 000Xb?
DDRII DIMM2	1001 010Xb?

SIGNAL	SLP_S1P	SLP_S3P	SLP_S4P	SLP_S5P	+VALM	+V	+VS	Clock
Full ON	HIGH	HIGH	HIGH	HIGH	ON	ON	ON	ON
S1 (Power On Suspend)	LOW	HIGH	HIGH	HIGH	ON	ON	ON	LOW
S3 (Suspend to RAM)	LOW	LOW	HIGH	HIGH	ON	ON	OFF	OFF
S4 (Suspend to Disk)	LOW	LOW	LOW	HIGH	ON	OFF	OFF	OFF
S5 (Soft OFF)	LOW	LOW	LOW	LOW	ON	OFF	OFF	OFF

Board ID Table for AD channel

Vcc		3.3V +/- 5%			
Ra / Rc	100K +/- 5%				
Board ID	Rb / Rd	VAD_RID_min	VAD_RID_typ	VAD_RID_max	
	0	0 V	0 V	0 V	
1	8.2K +/- 5%	0.216 V	0.250 V	0.289 V	
2	18K +/- 5%	0.436 V	0.503 V	0.538 V	
3	33K +/- 5%	0.712 V	0.819 V	0.875 V	
4	56K +/- 5%	1.036 V	1.185 V	1.264 V	
5	100K +/- 5%	1.453 V	1.650 V	1.759 V	
6	200K +/- 5%	1.935 V	2.200 V	2.341 V	
7	NC	2.500 V	3.300 V	3.300 V	

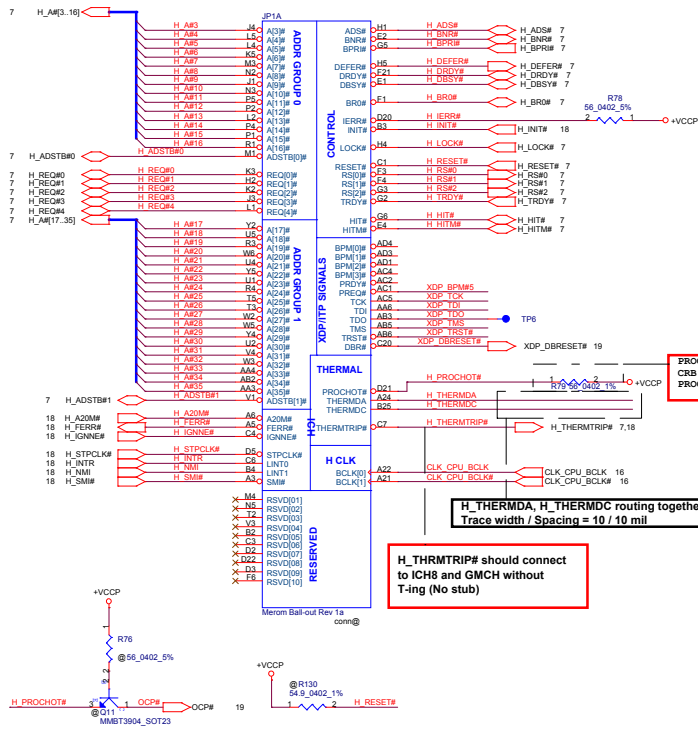
BOARD ID Table

Board ID	PCB Revision
0	0.1
1	0.2
2	0.3
3	
4	
5	
6	
7	

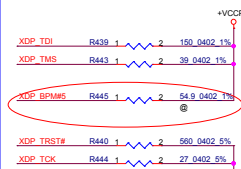
BTO Option Table

[illegible]

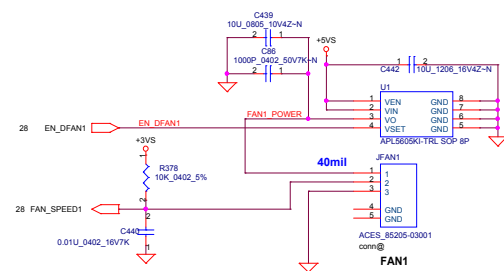
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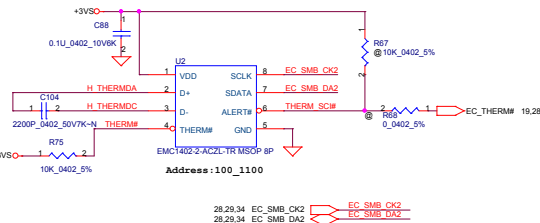
XDP Reserve



FAN1 Control and Tachometer



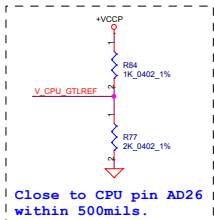
Thermal Sensor EMC1402-2-ACZL-TR



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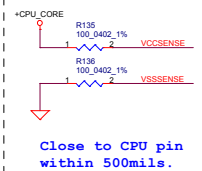
layout note: Route TEST3 & TEST5 traces on ground referenced layer to the TP's

CPU_BSEL	CPU_BSEL2	CPU_BSEL1	CPU_BSEL0
166	0	1	1
200	0	1	0



Resistor placed within 0.5" of CPU pin. Trace should be at least 25 mils away from any other coupling signal. COMP[0,2] trace width is 18 mils. COMP[1,3] trace width is 4 mils.

Length match within 25 mils. The trace width/space/other is 20/7/25.

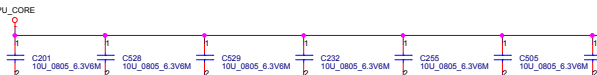


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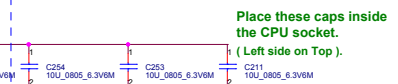
A4	VSS001	VSS002	P8
A4	VSS002	VSS003	P21
A11	VSS003	VSS004	P24
A14	VSS004	VSS005	R2
A16	VSS005	VSS006	R2
A19	VSS006	VSS007	R22
A23	VSS007	VSS008	R2
A27	VSS008	VSS009	T1
B8	VSS009	VSS010	T23
B8	VSS010	VSS011	T24
B11	VSS011	VSS012	T26
B13	VSS012	VSS013	U2
B16	VSS013	VSS014	U2
B19	VSS014	VSS015	U24
B21	VSS015	VSS016	U2
B24	VSS016	VSS017	U2
C2	VSS017	VSS018	V22
C4	VSS018	VSS019	V22
C11	VSS019	VSS020	W2
C14	VSS020	VSS021	W2
C16	VSS021	VSS022	W23
C18	VSS022	VSS023	W23
C22	VSS023	VSS024	Y2
C24	VSS024	VSS025	Y2
D1	VSS025	VSS026	Y24
D4	VSS026	VSS027	Y24
D8	VSS027	VSS028	Y24
D11	VSS028	VSS029	Y24
D13	VSS029	VSS030	Y24
D16	VSS030	VSS031	Y24
D19	VSS031	VSS032	Y24
D22	VSS032	VSS033	Y24
D26	VSS033	VSS034	Y24
E3	VSS034	VSS035	Y24
E8	VSS035	VSS036	Y24
E11	VSS036	VSS037	Y24
E14	VSS037	VSS038	Y24
E16	VSS038	VSS039	Y24
E19	VSS039	VSS040	Y24
E21	VSS040	VSS041	Y24
E24	VSS041	VSS042	Y24
F2	VSS042	VSS043	Y24
F8	VSS043	VSS044	Y24
F11	VSS044	VSS045	Y24
F13	VSS045	VSS046	Y24
F16	VSS046	VSS047	Y24
F19	VSS047	VSS048	Y24
F22	VSS048	VSS049	Y24
F24	VSS049	VSS050	Y24
G4	VSS050	VSS051	Y24
G1	VSS051	VSS052	Y24
G3	VSS052	VSS053	Y24
G26	VSS053	VSS054	Y24
H3	VSS054	VSS055	Y24
H6	VSS055	VSS056	Y24
H21	VSS056	VSS057	Y24
H24	VSS057	VSS058	Y24
J2	VSS058	VSS059	Y24
J6	VSS059	VSS060	Y24
J22	VSS060	VSS061	Y24
J26	VSS061	VSS062	Y24
K2	VSS062	VSS063	Y24
K4	VSS063	VSS064	Y24
K23	VSS064	VSS065	Y24
K26	VSS065	VSS066	Y24
L3	VSS066	VSS067	Y24
L6	VSS067	VSS068	Y24
L21	VSS068	VSS069	Y24
L24	VSS069	VSS070	Y24
M2	VSS070	VSS071	Y24
M22	VSS071	VSS072	Y24
M24	VSS072	VSS073	Y24
N2	VSS073	VSS074	Y24
N22	VSS074	VSS075	Y24
N24	VSS075	VSS076	Y24
N26	VSS076	VSS077	Y24
P2	VSS077	VSS078	Y24
P3	VSS078	VSS079	Y24
P3	VSS079	VSS080	Y24
P3	VSS080	VSS081	Y24
P3	VSS081	VSS082	Y24
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P3	VSS156	VSS157	Y24
P3	VSS157	VSS158	Y24
P3	VSS158	VSS159	Y24
P3	VSS159	VSS160	Y24
P3	VSS160	VSS161	Y24
P3	VSS161	VSS162	Y24
P3	VSS162	VSS163	Y24

High Frequency Decoupling 10uF 0805 X5R -> 85 degree.

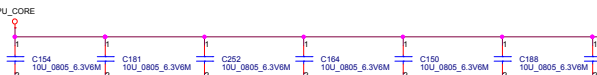
Place these caps inside the CPU socket cavity. (Left side on Top).



Place these caps inside the CPU socket. (Left side on Top).



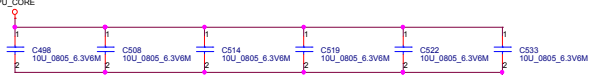
Place these caps inside the CPU socket cavity. (Right side on Top side).



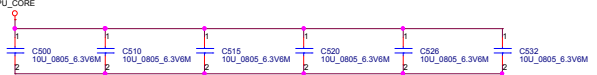
Place these caps inside the CPU socket. (Right side on Top).



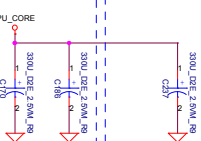
Place these caps inside the CPU socket cavity. (Left side on Bottom).



Place these caps inside the CPU socket cavity. (Right side on Bottom).



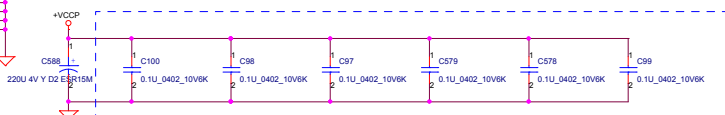
Place these caps inside the CPU socket. (Left side on Top).



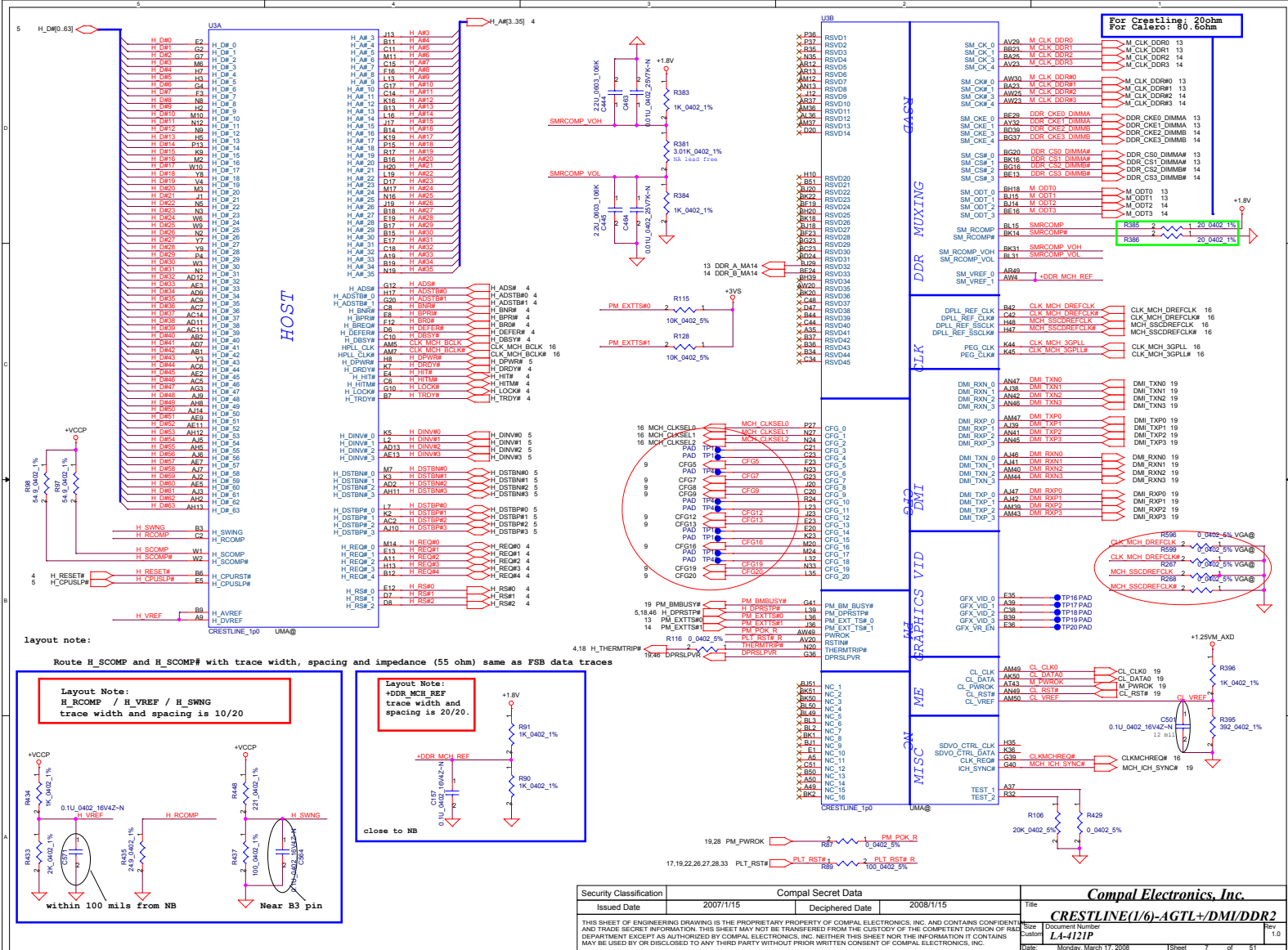
Place these caps inside the CPU socket. (Right side on Top side).

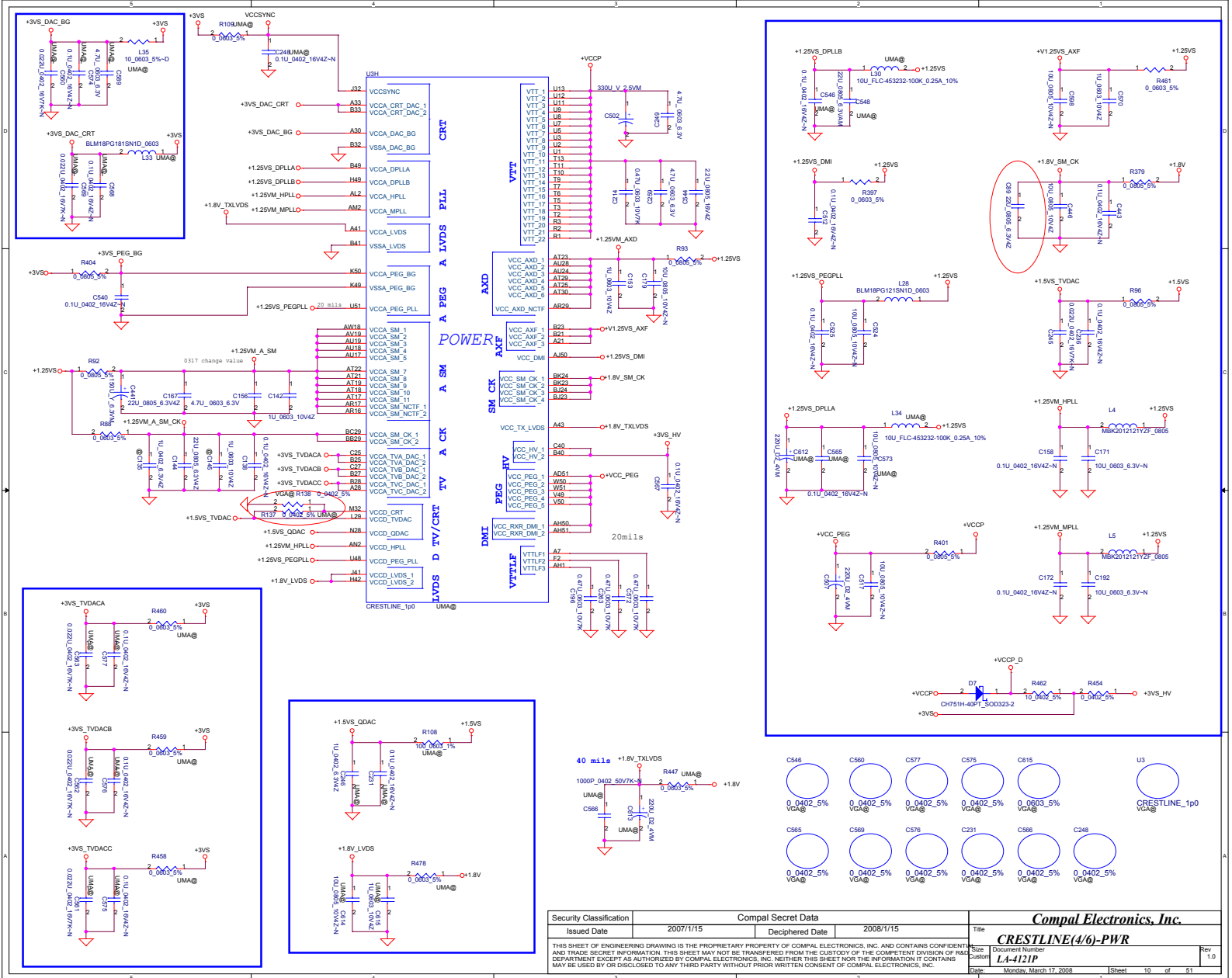
ESR <= 1.5m ohm
Capacitor > 880 uF

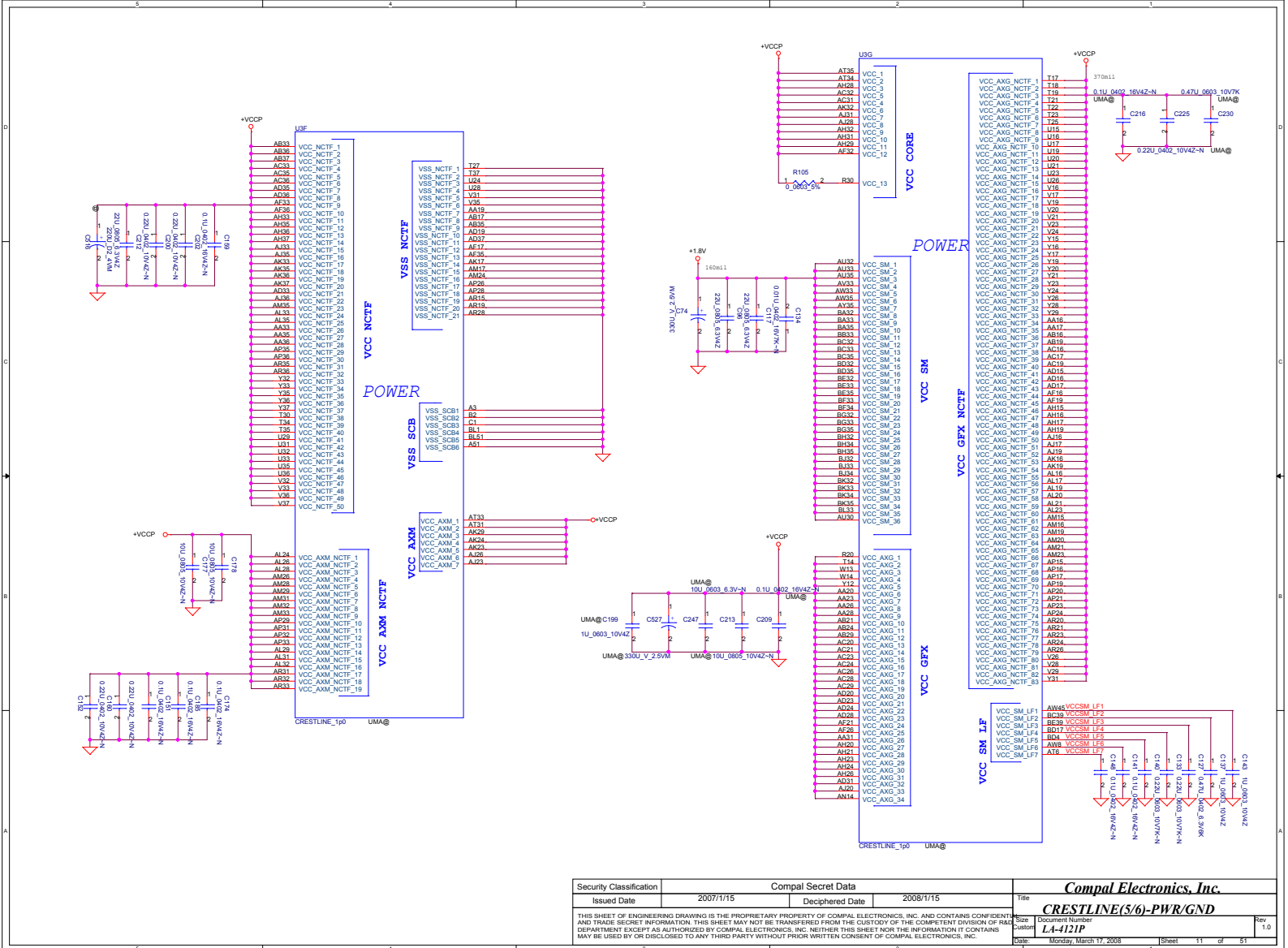
Place these outside of socket cavity on L8 (North side Secondary)



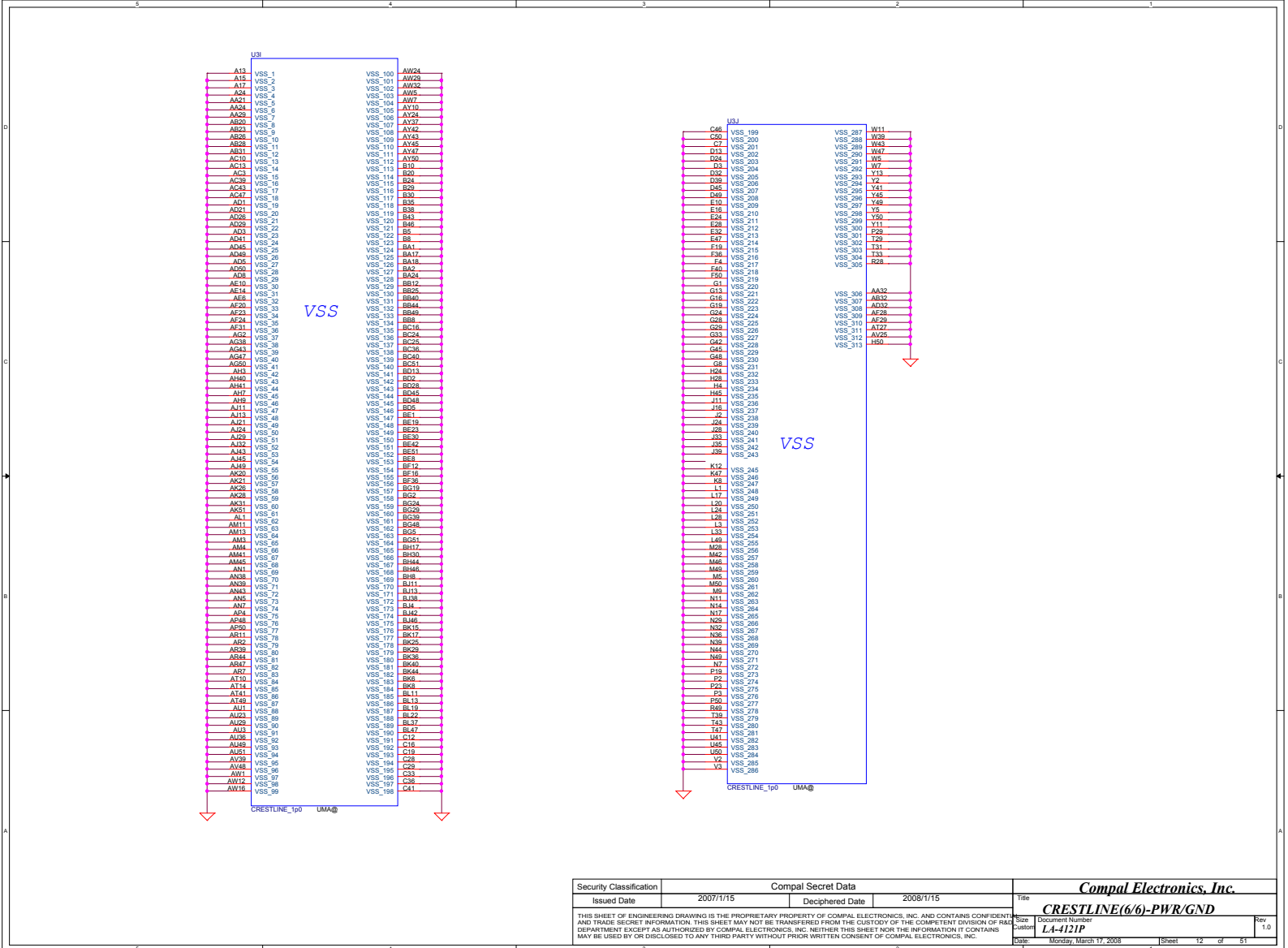
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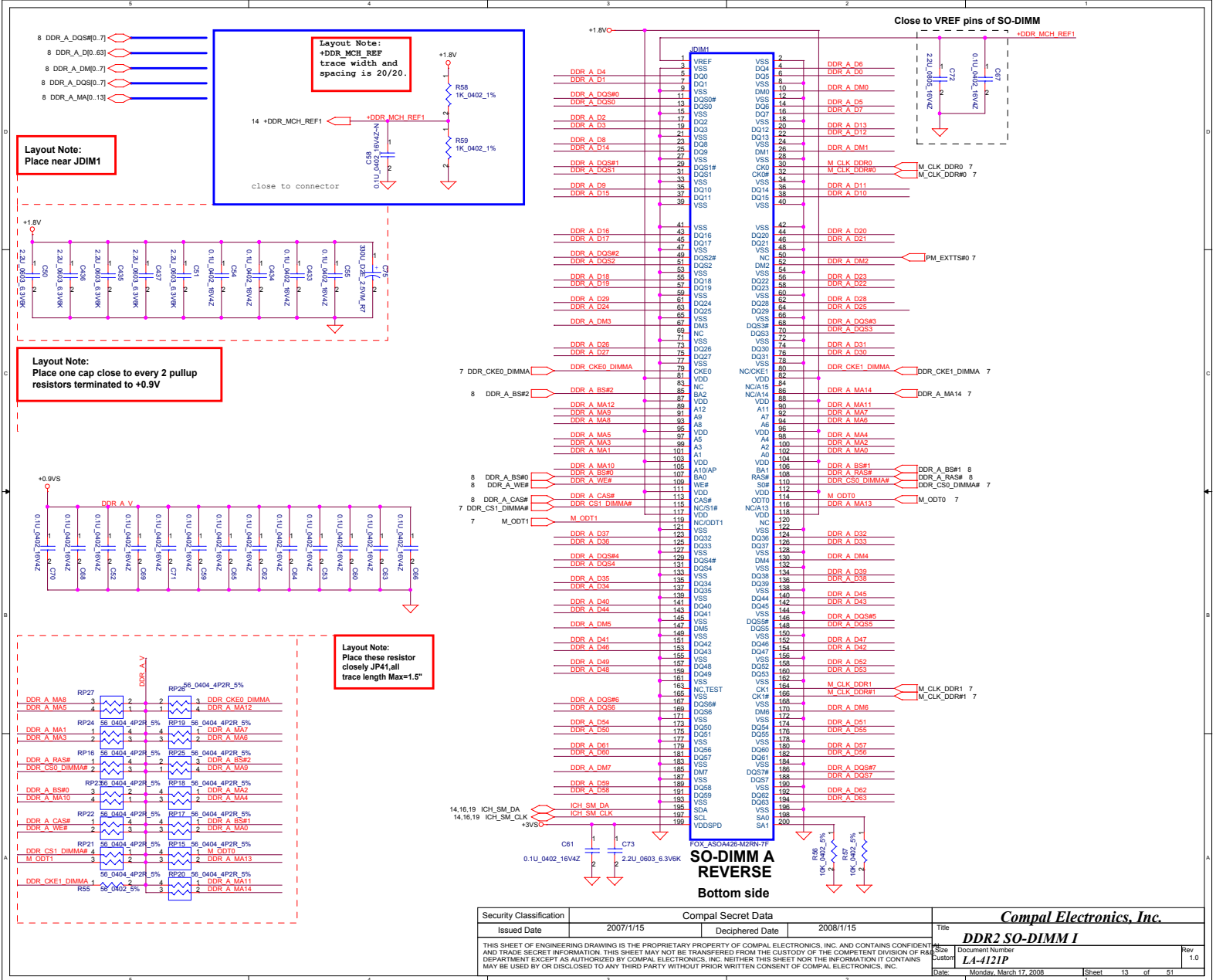


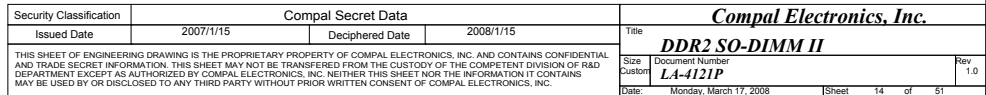


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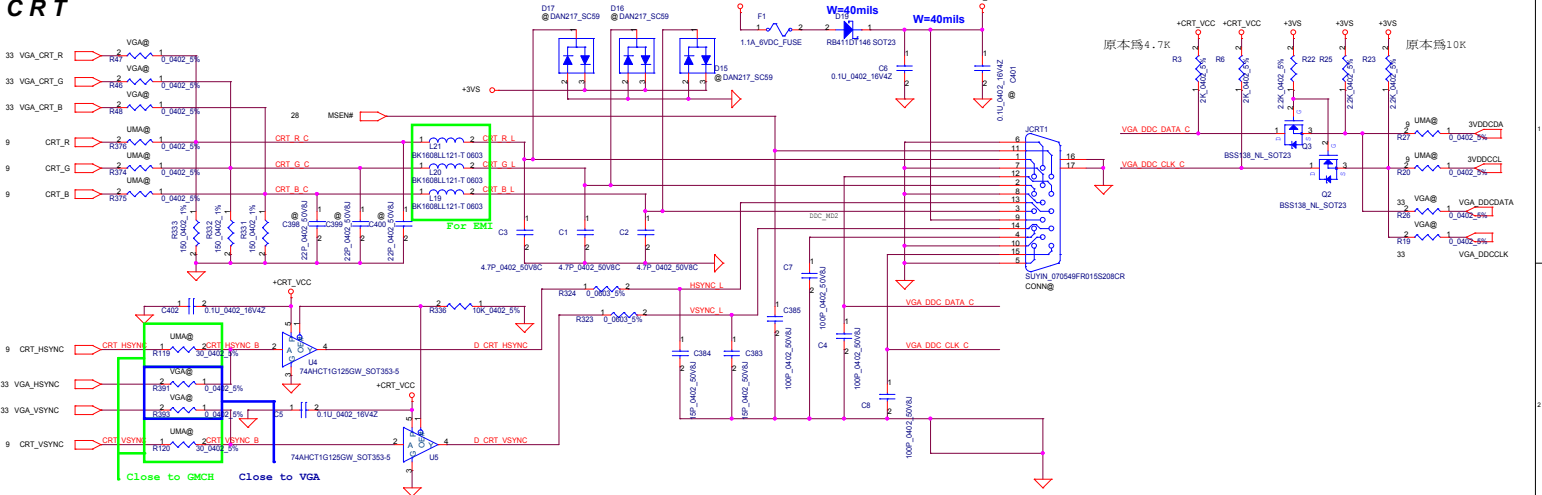


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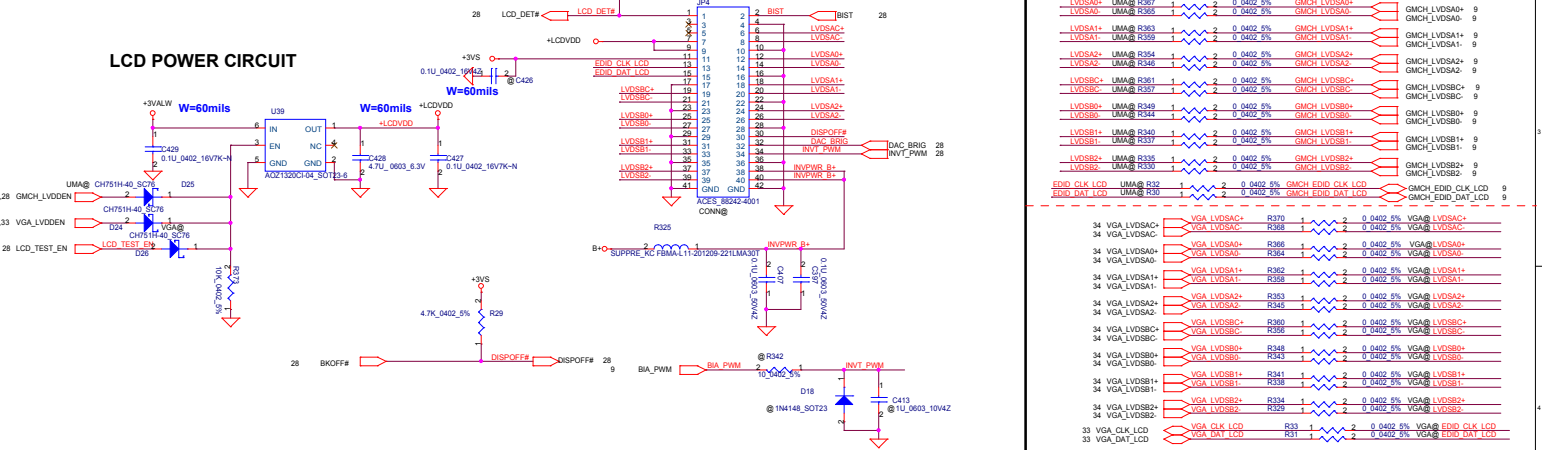




CRT



LCD

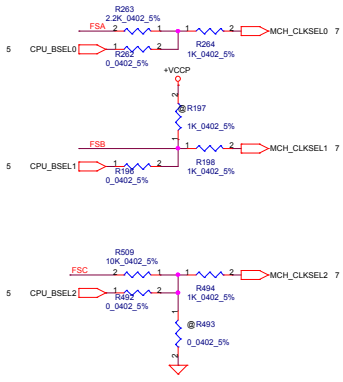


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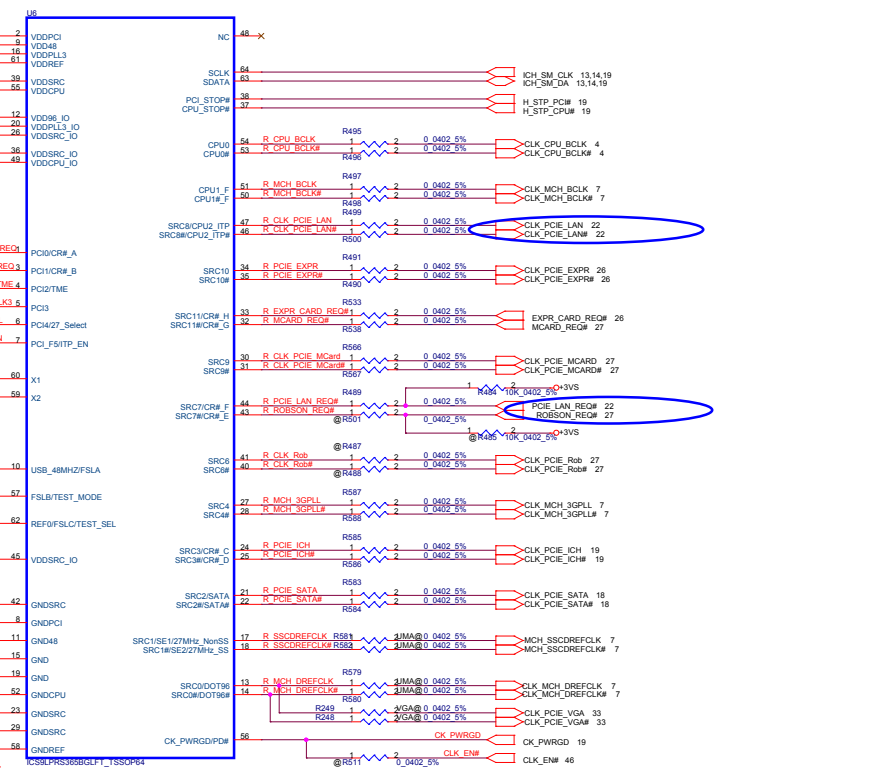
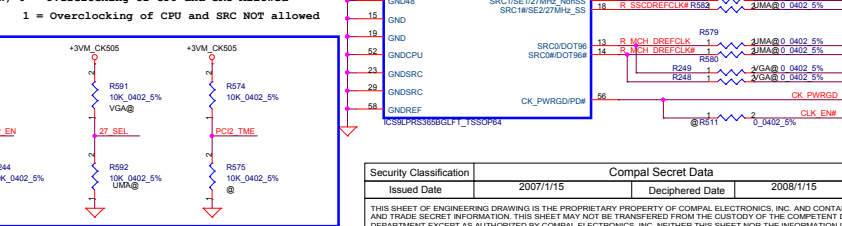
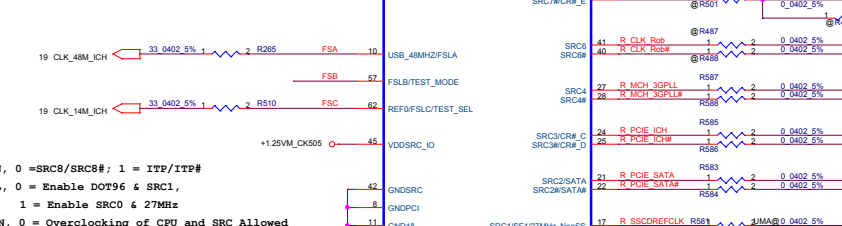
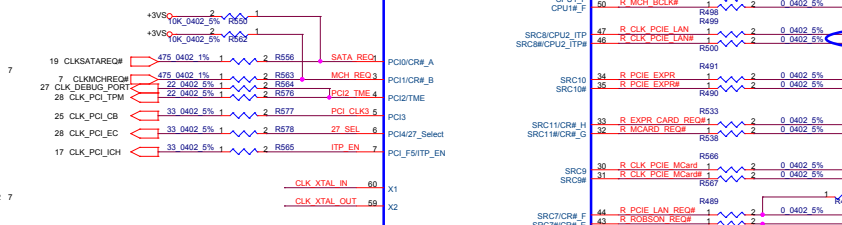
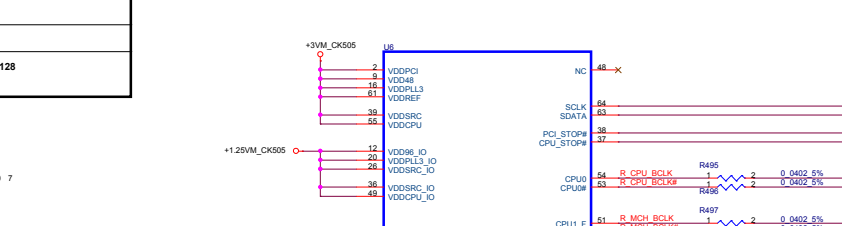
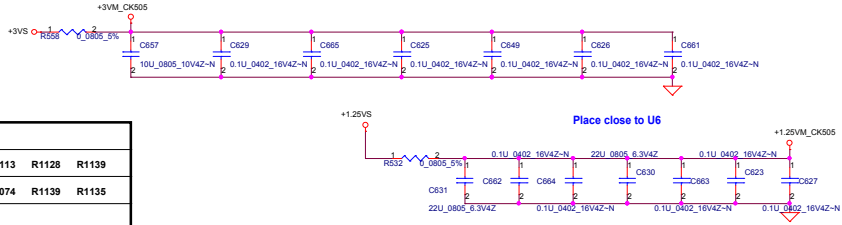
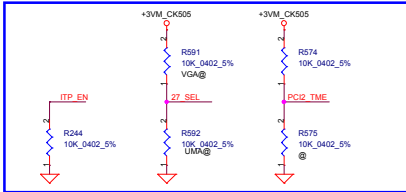
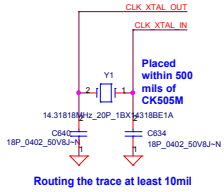
FSLC CLKSEL2	FSLB CLKSEL1	FSLA CLKSEL0	CPU MHz	SRC MHz	PCI MHz
0	1	0	200	100	33.3
0	1	1	166	100	33.3

FSB Frequency Select:

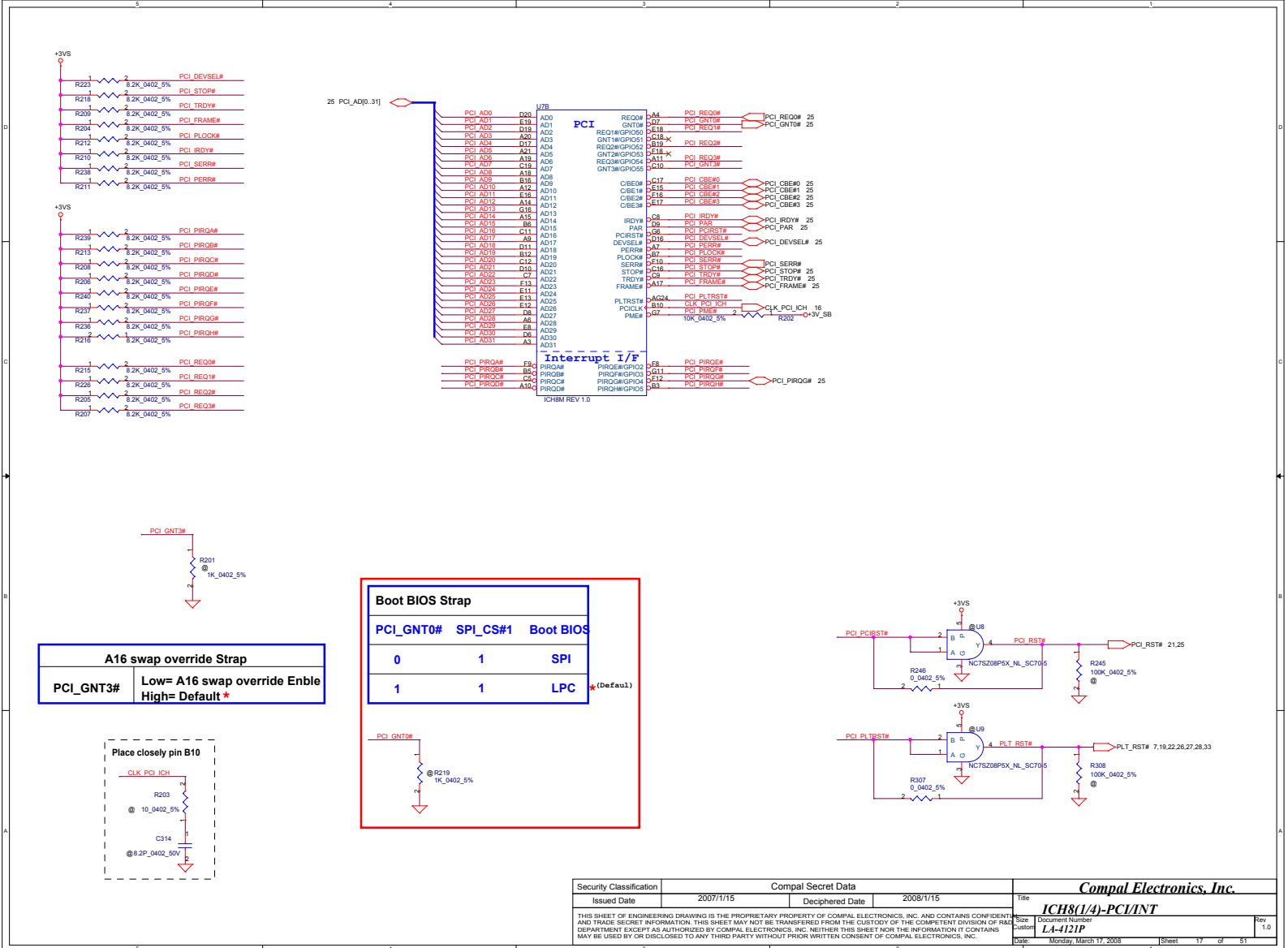
CPU Driven	Stuff	R107	R1135	R1083
* (Default)	No Stuff	R1074	R1086	R1098
	Stuff	R1086	R1139	R1135
667MHz	No Stuff	R1083	R1107	R1128
	Stuff	R1113	R1098	
800MHz	No Stuff	R1135	R1139	
	Stuff	R1083	R1086	R1098
		R1074	R1107	R1113

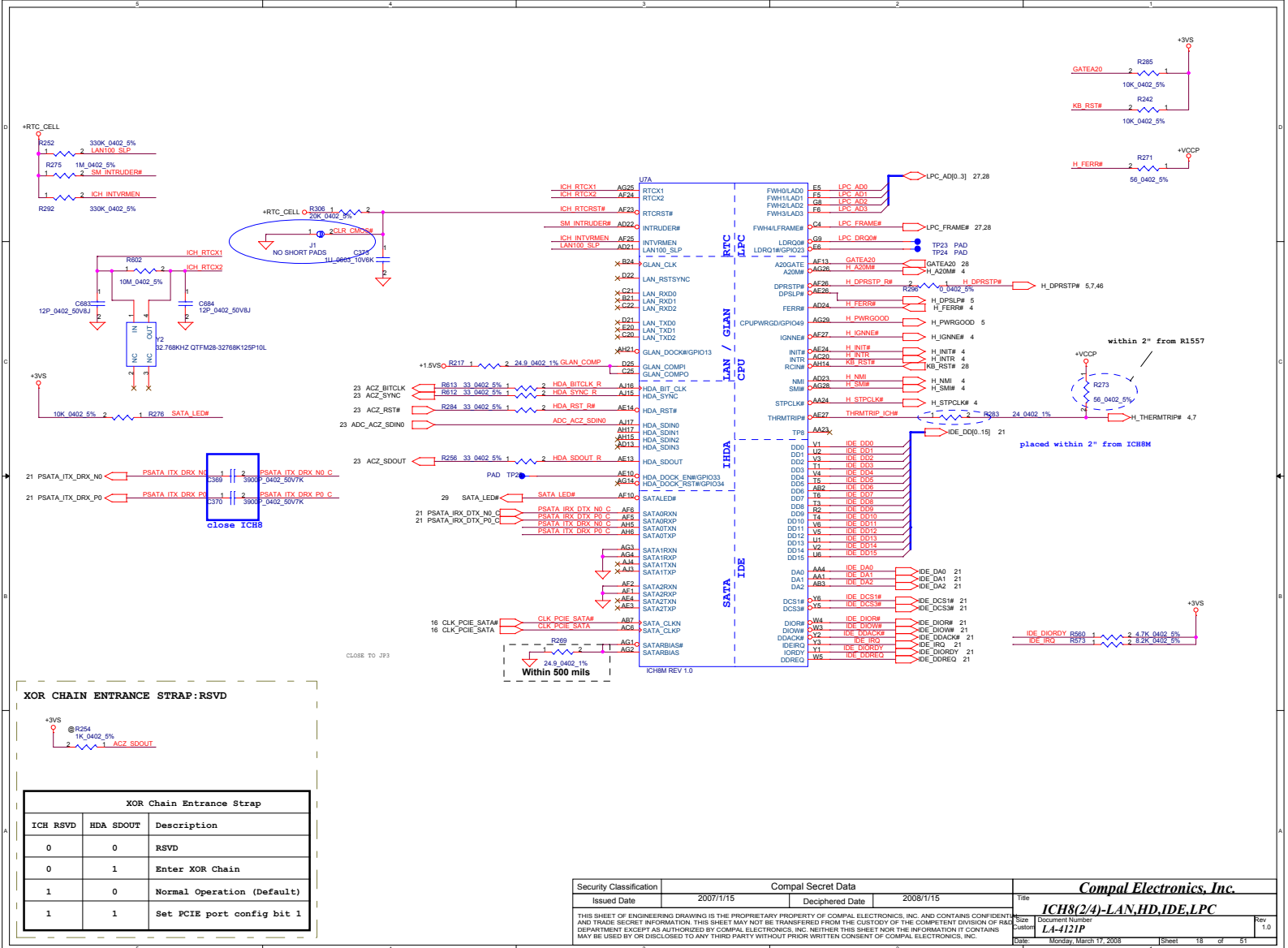


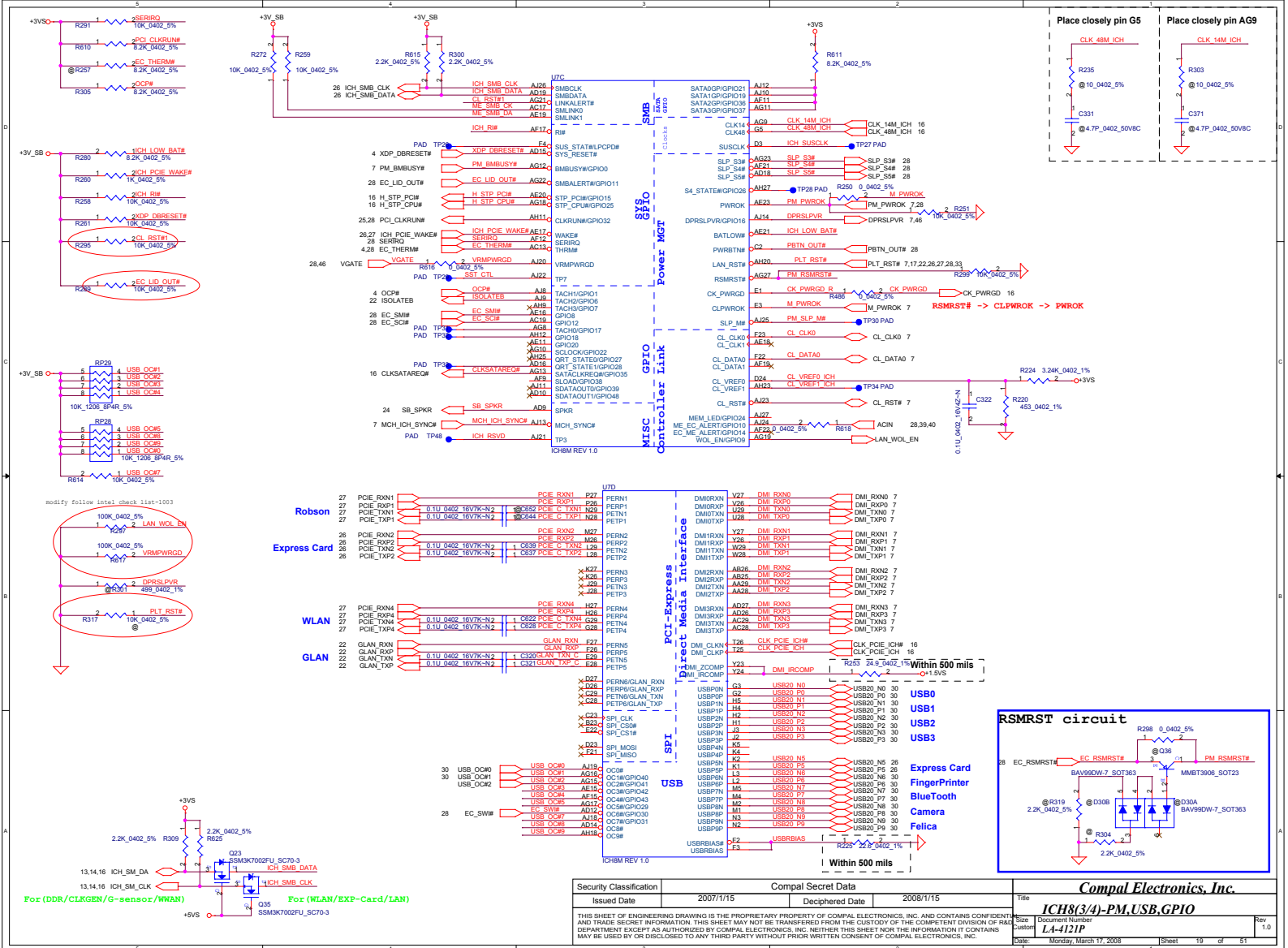
For ITP_EN, 0 =SRC8/SRC8#; 1 = ITP/ITP#
For 27_SEL, 0 = Enable D0796 & SRC1,
1 = Enable SRC0 & 27MHz
For PCI2_EN, 0 = Overclocking of CPU and SRC Allowed
1 = Overclocking of CPU and SRC NOT allowed

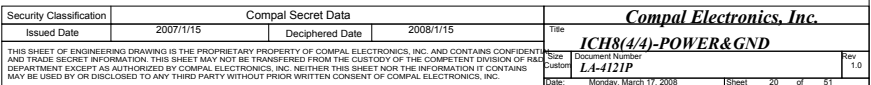


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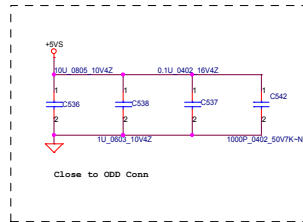
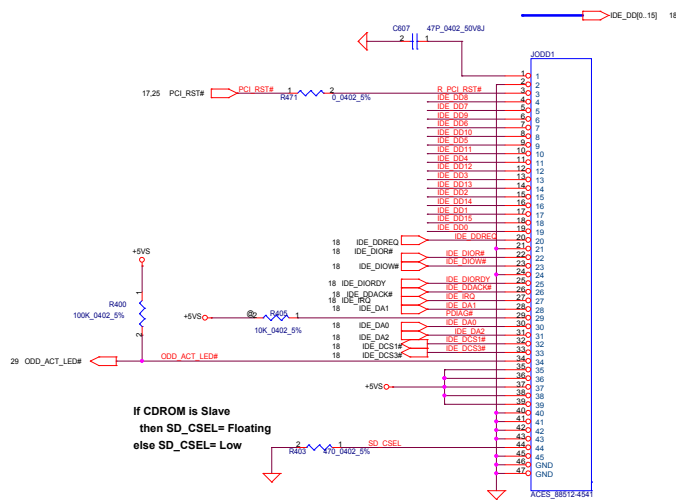




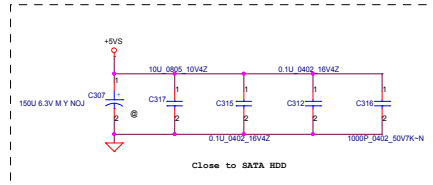
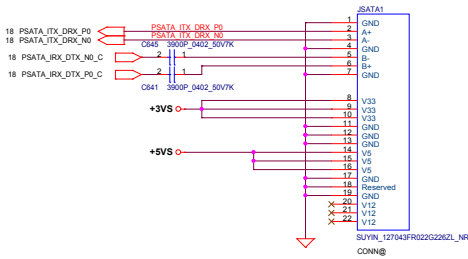




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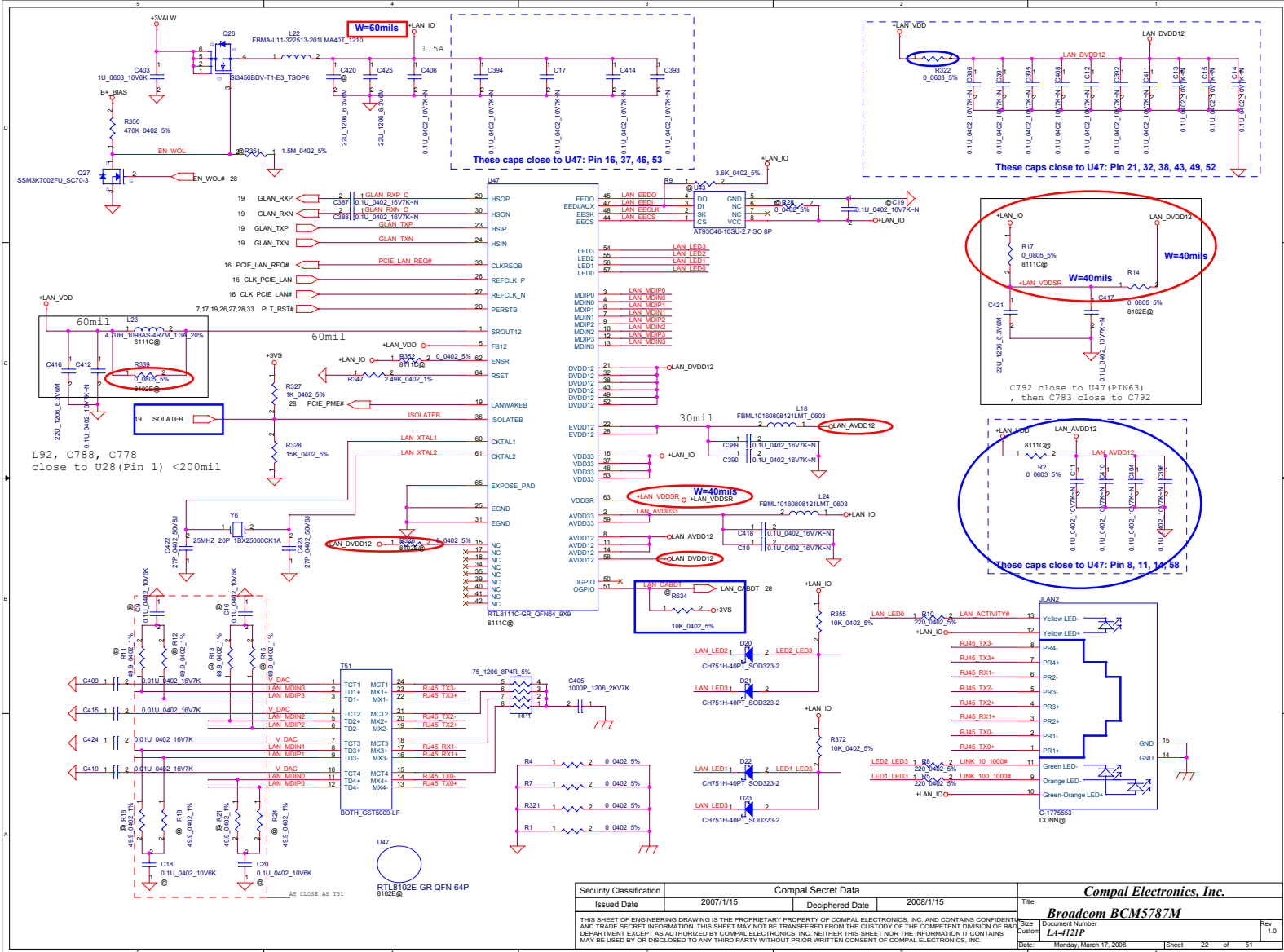


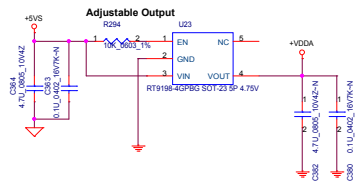
SATA HDD CONN



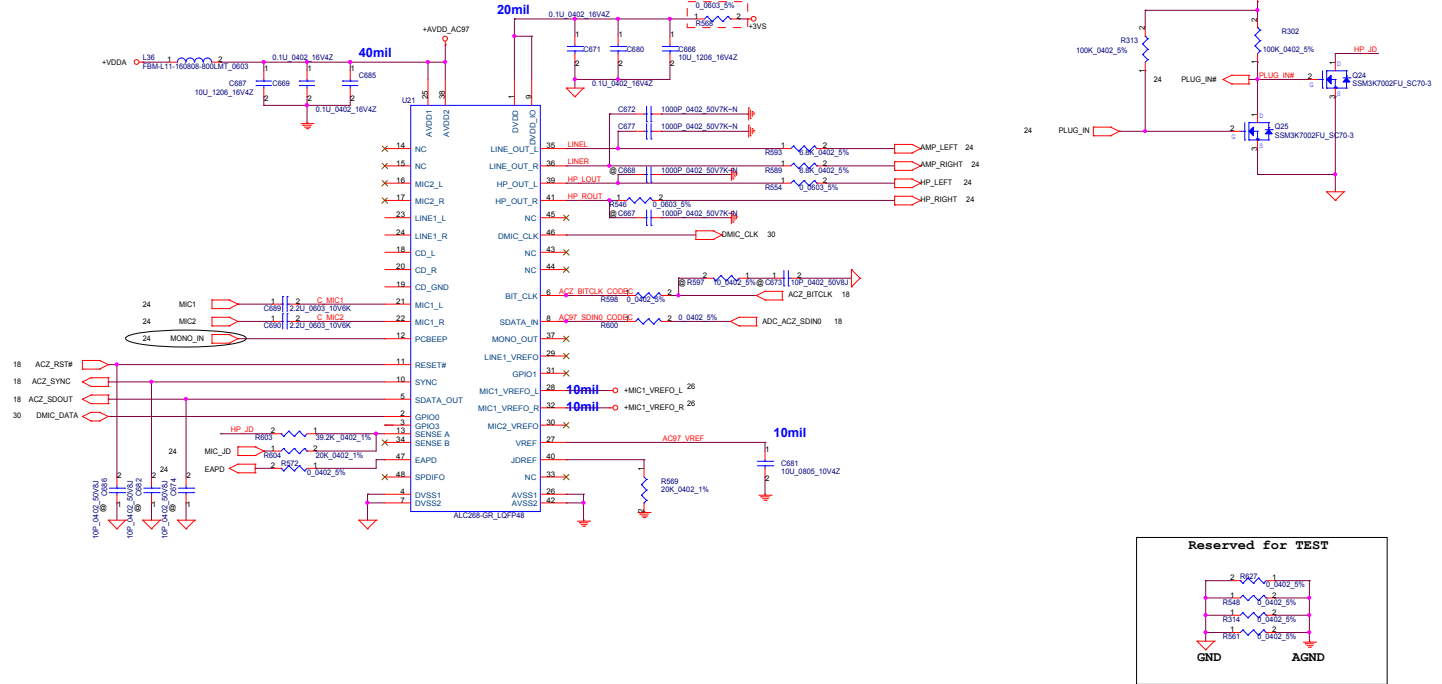
then SD_CSEL= Floating
else SD_CSEL= Low

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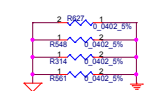




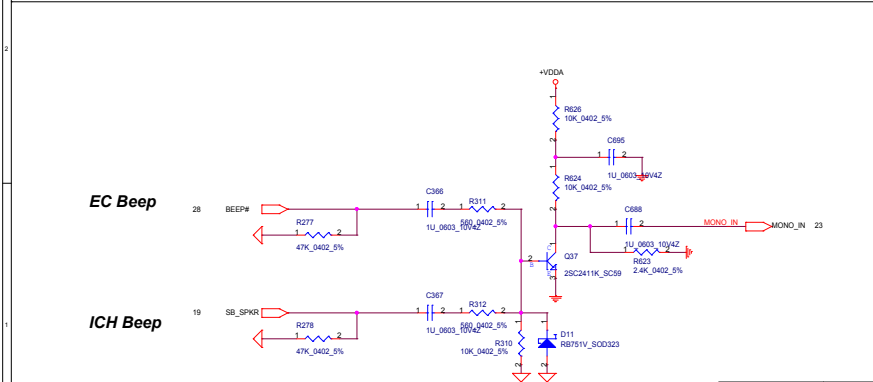
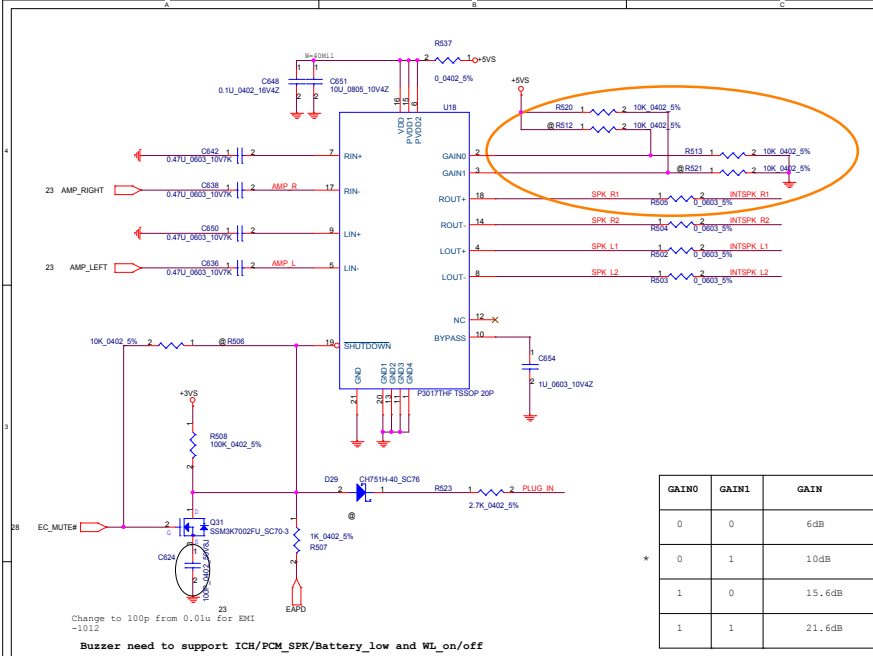
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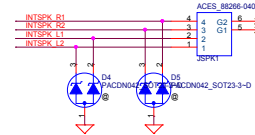
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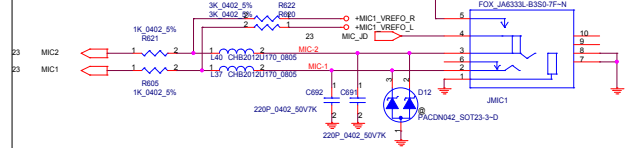
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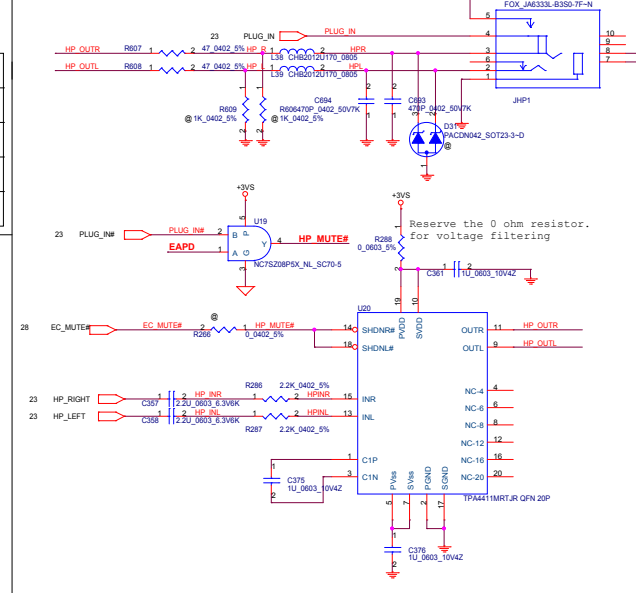
Speaker Connector



MICROPHONE IN JACK

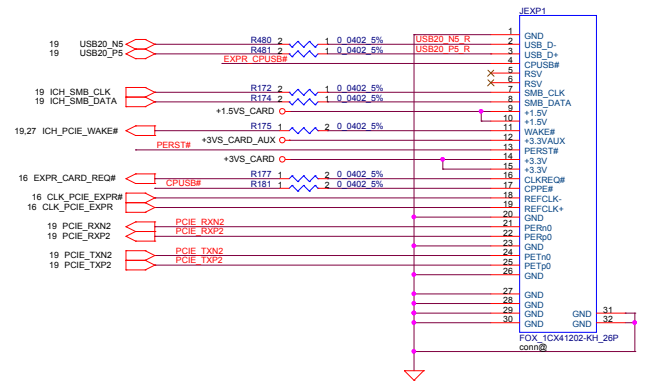


HEADPHONE OUT JACK

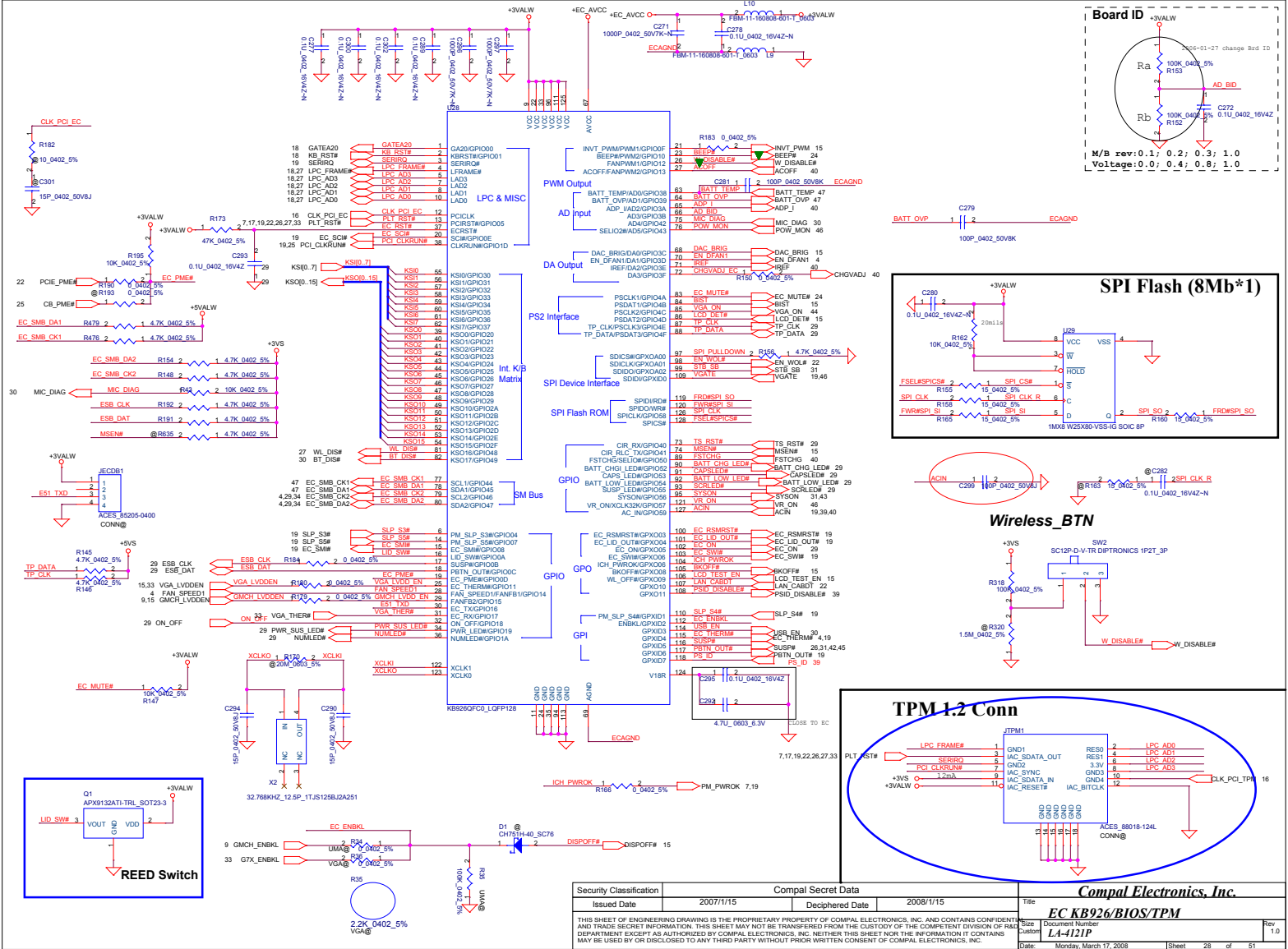


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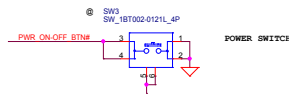
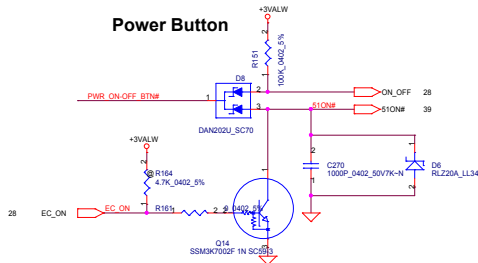
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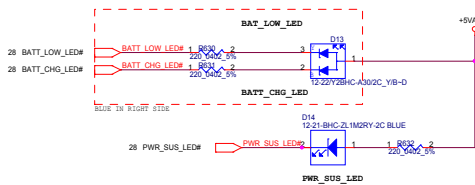
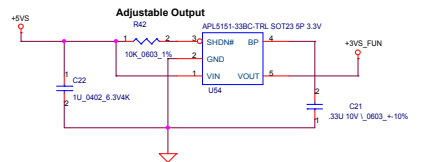
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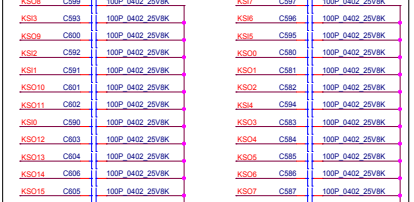
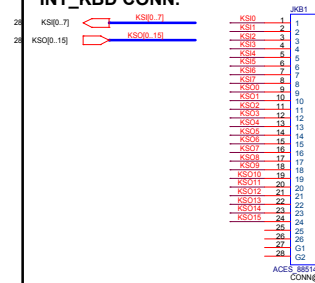
Power Button



Regulator for ENE sensor

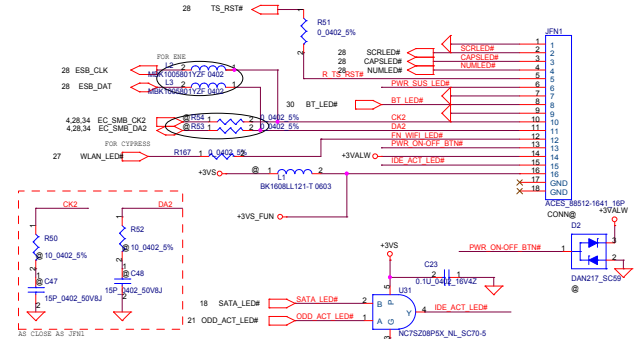


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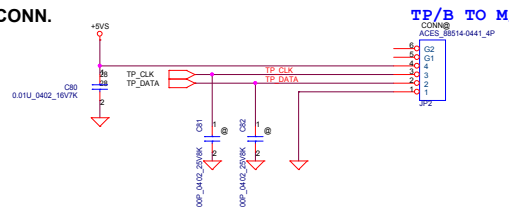


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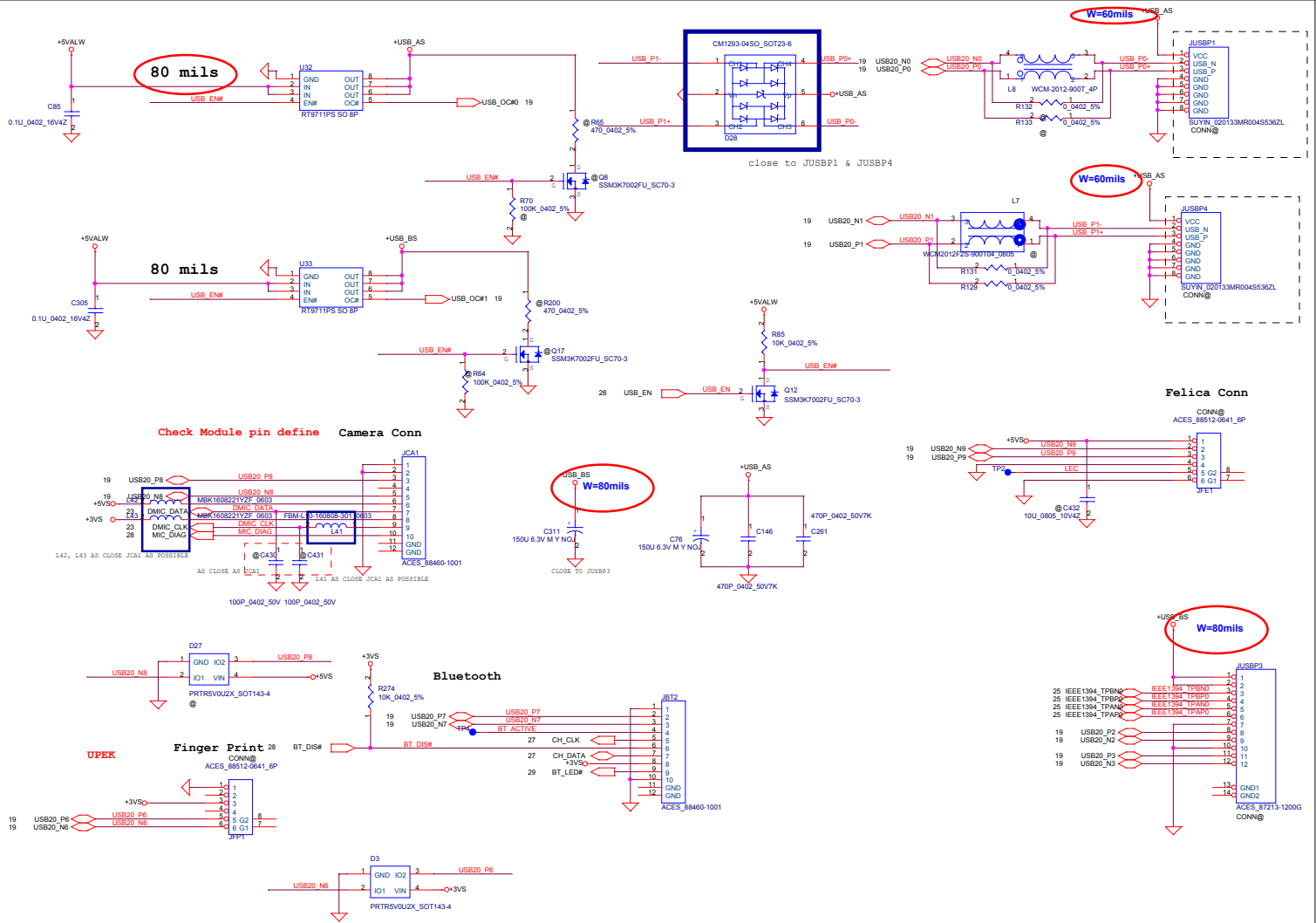
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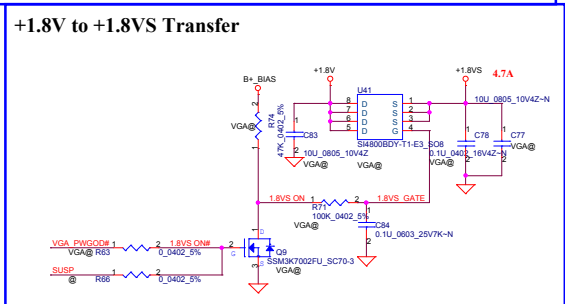
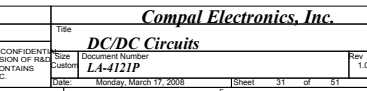
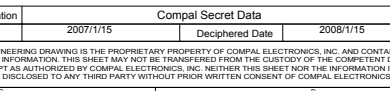
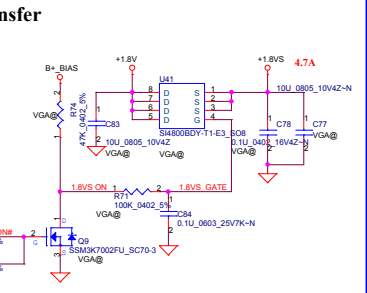
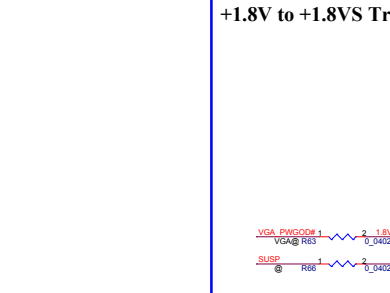
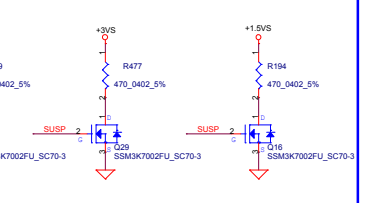
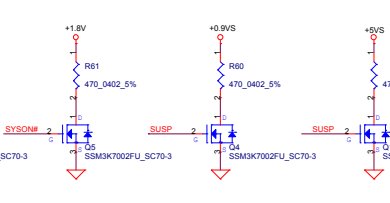
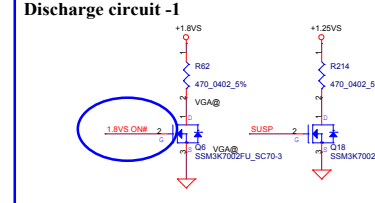
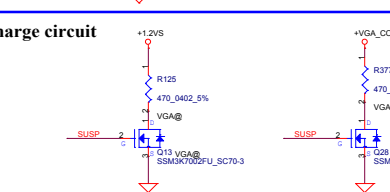
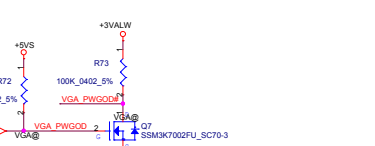
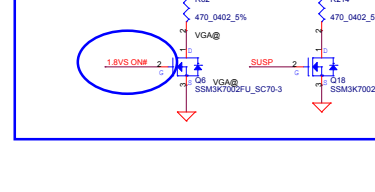
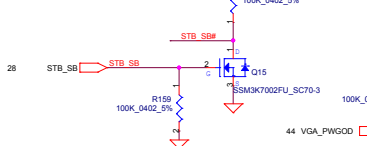
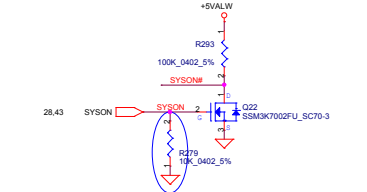
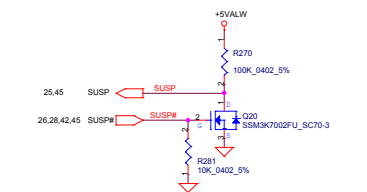
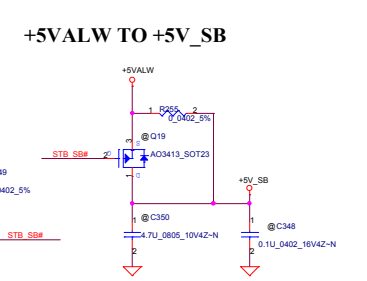
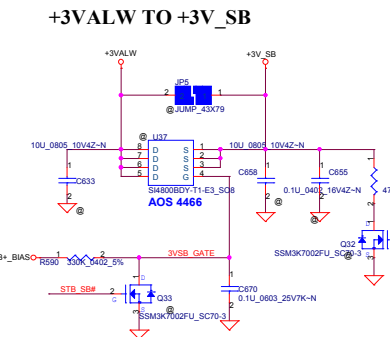
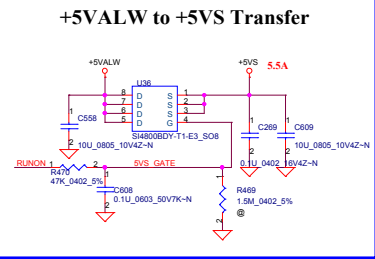
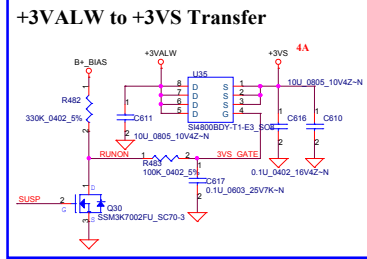
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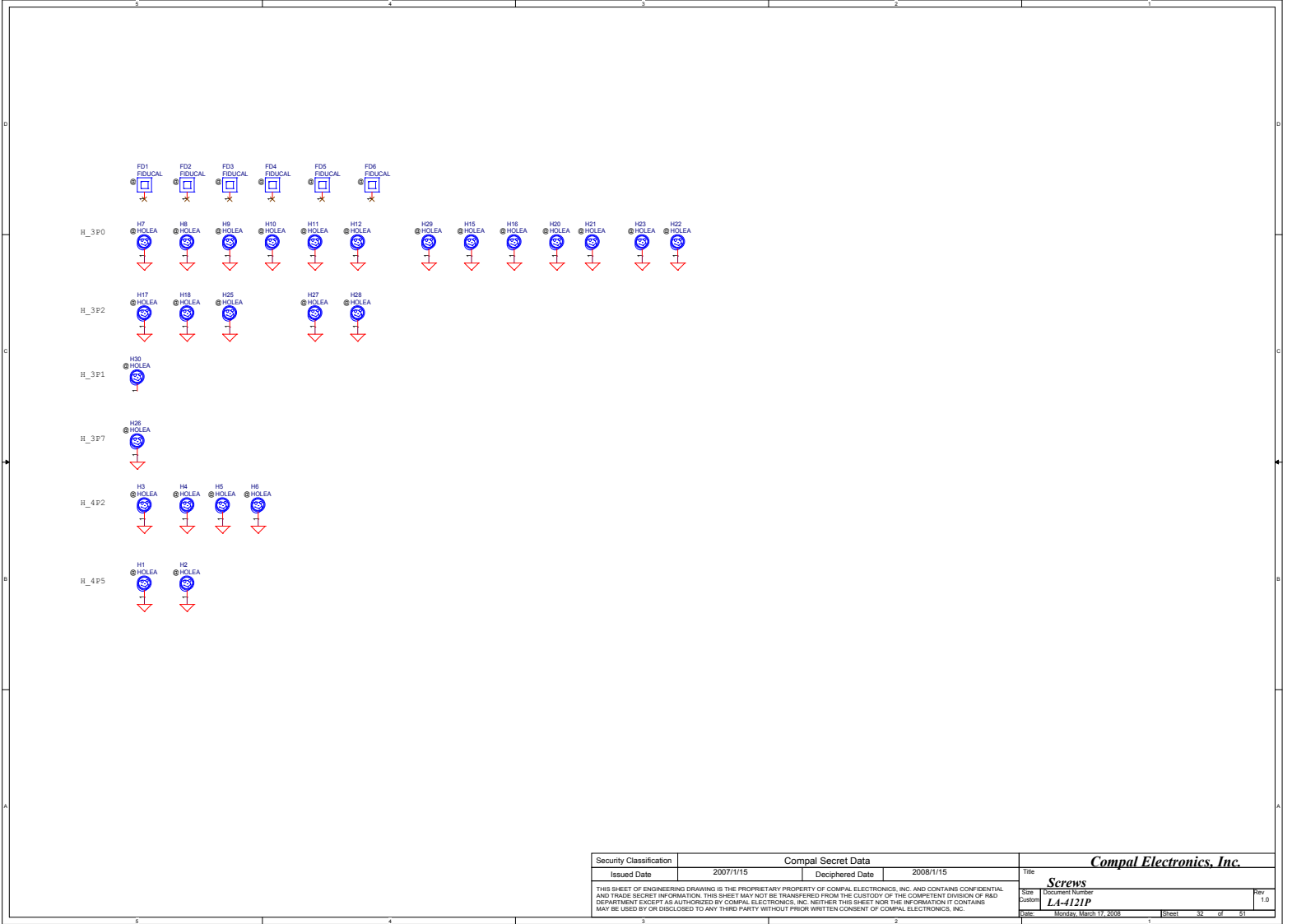
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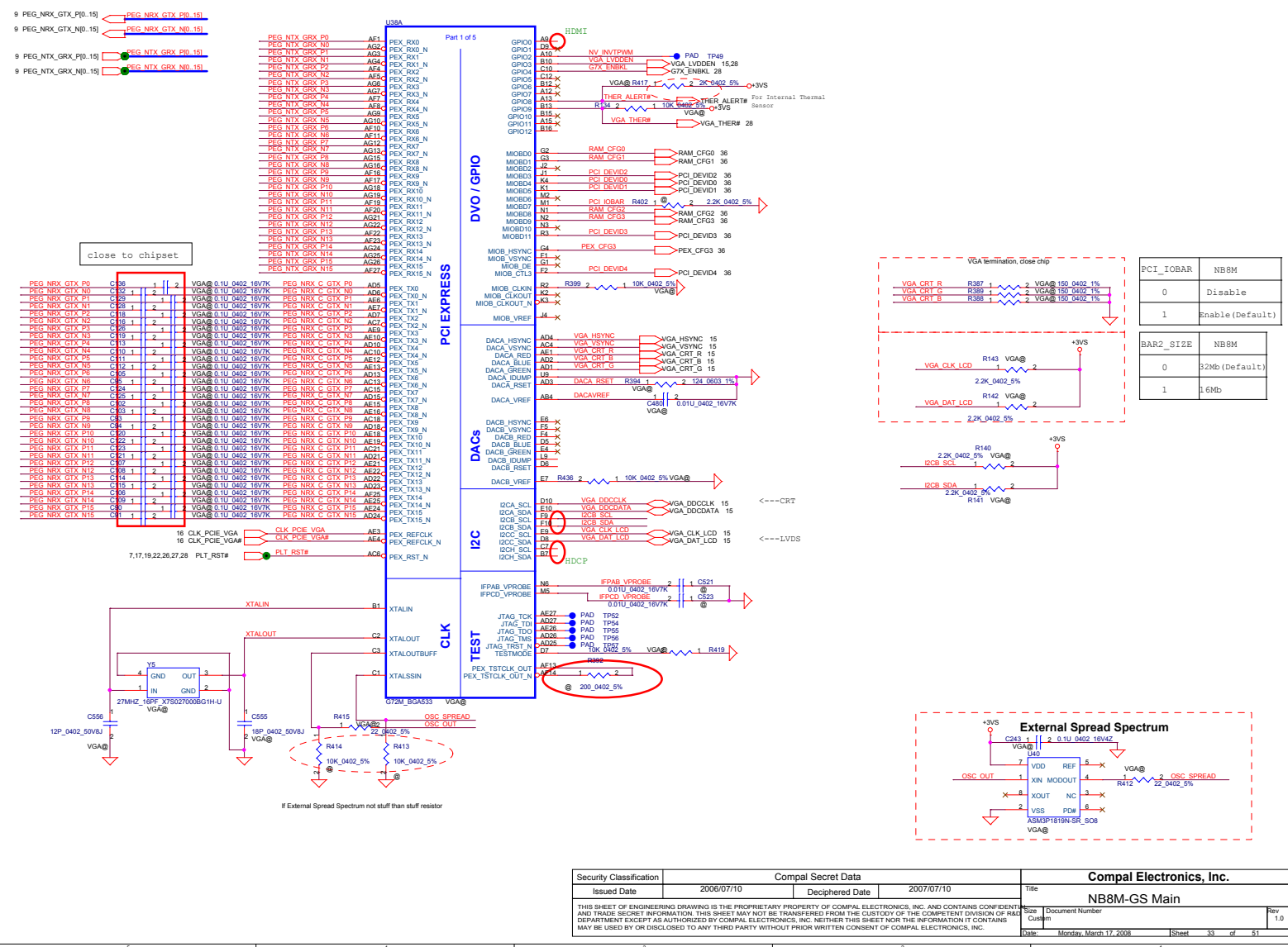
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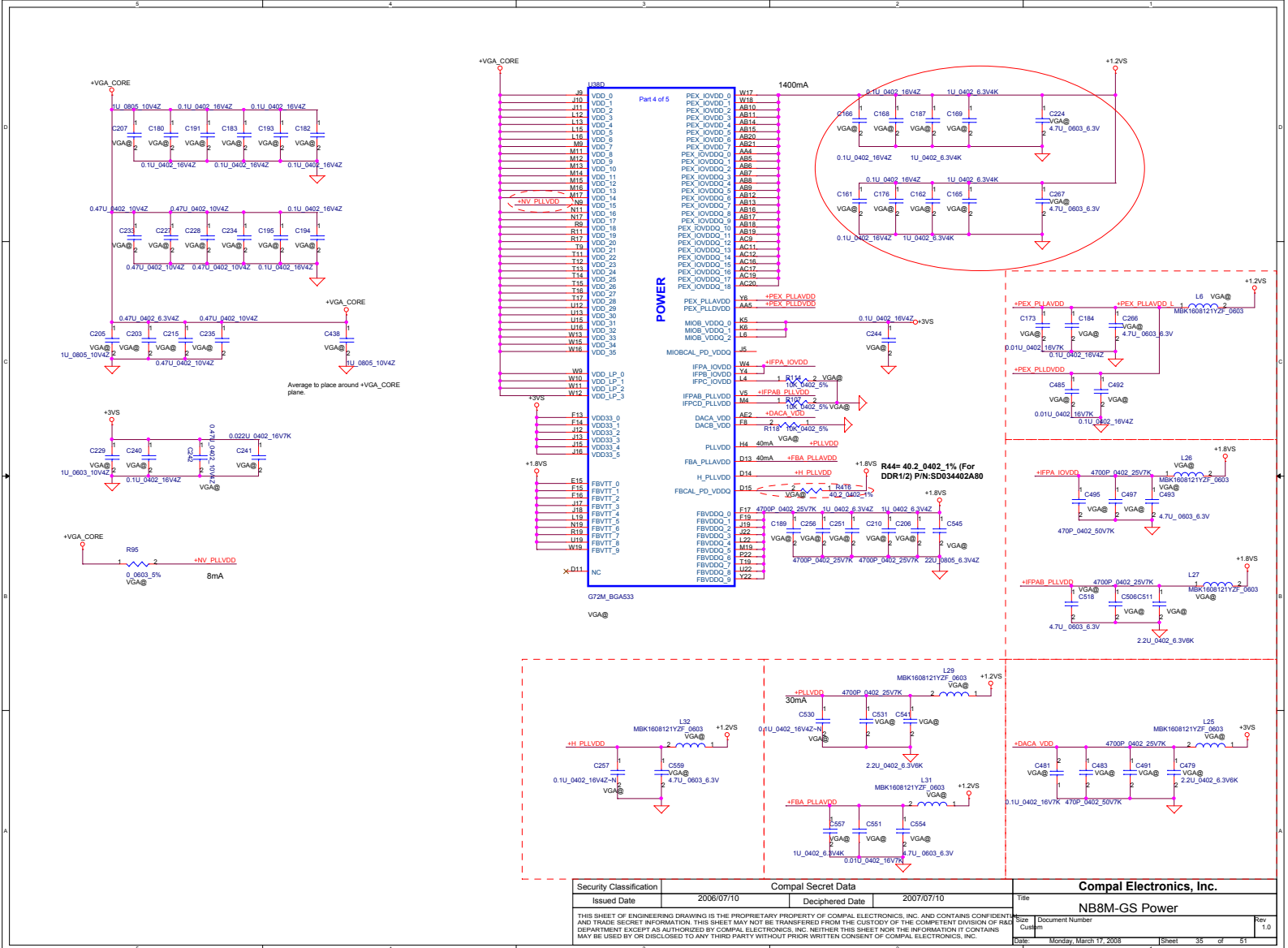
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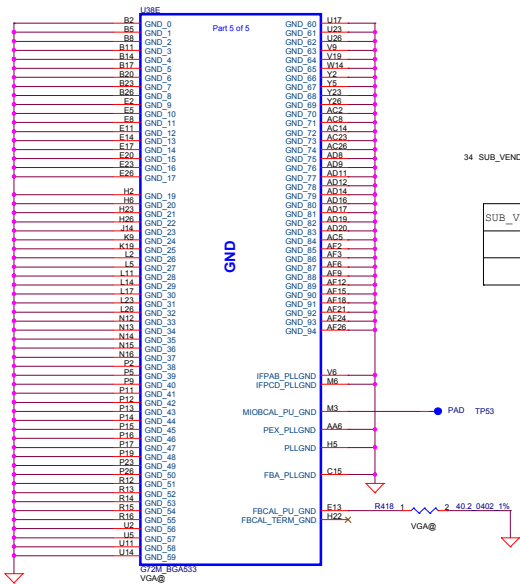


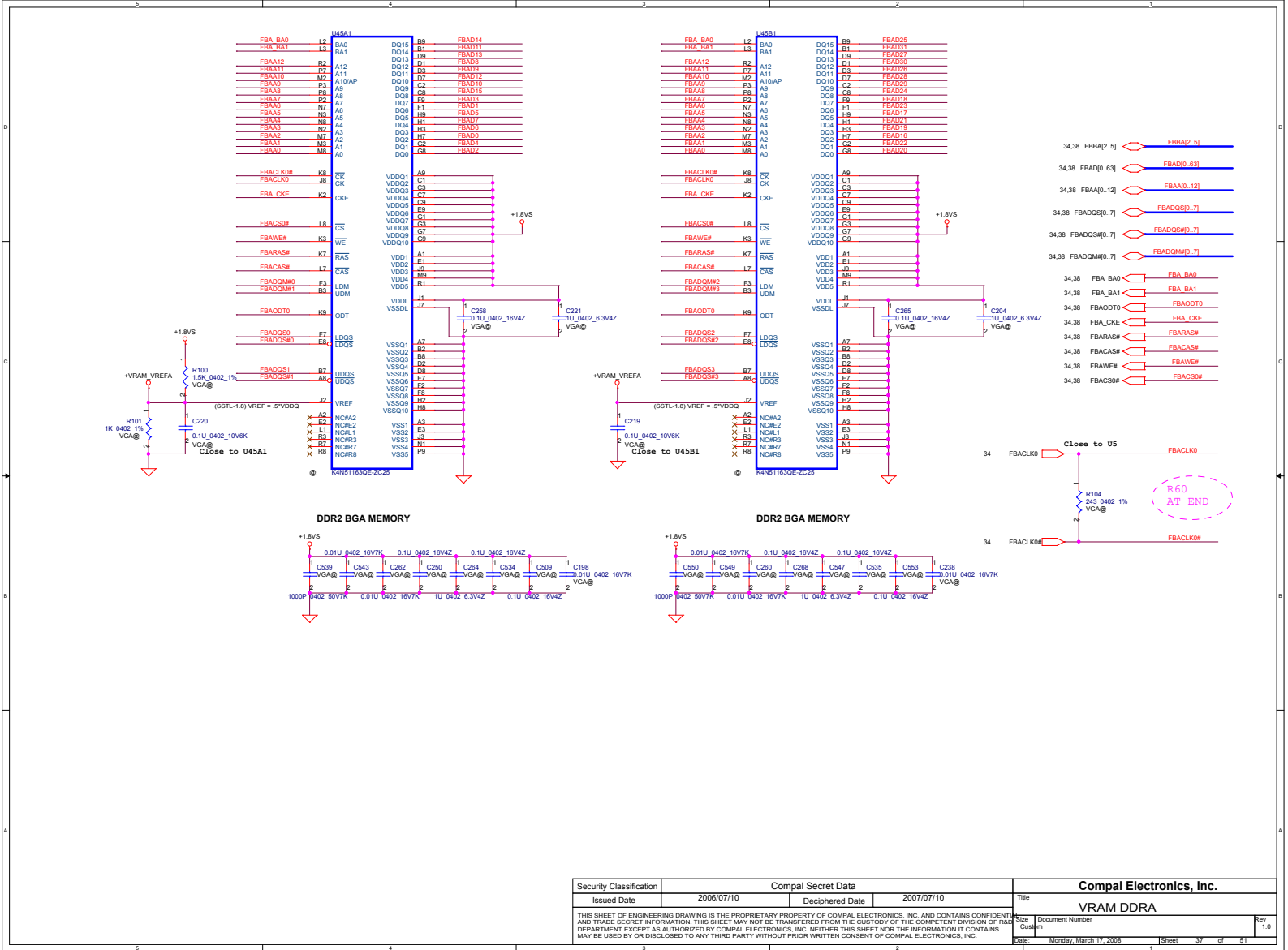
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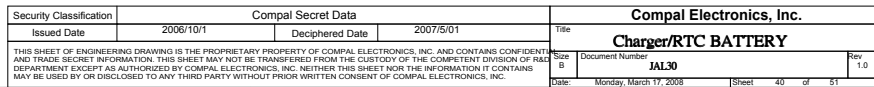


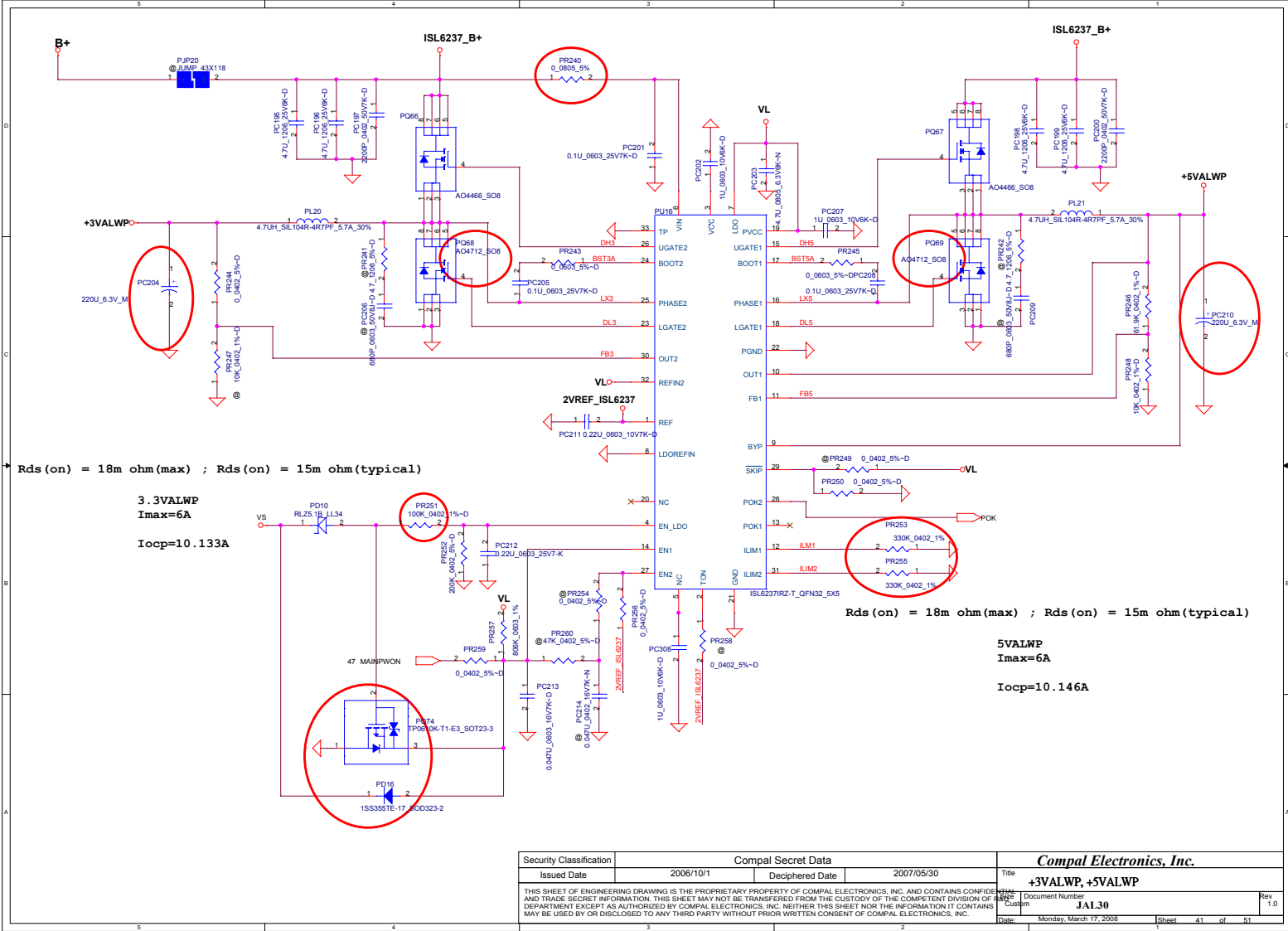
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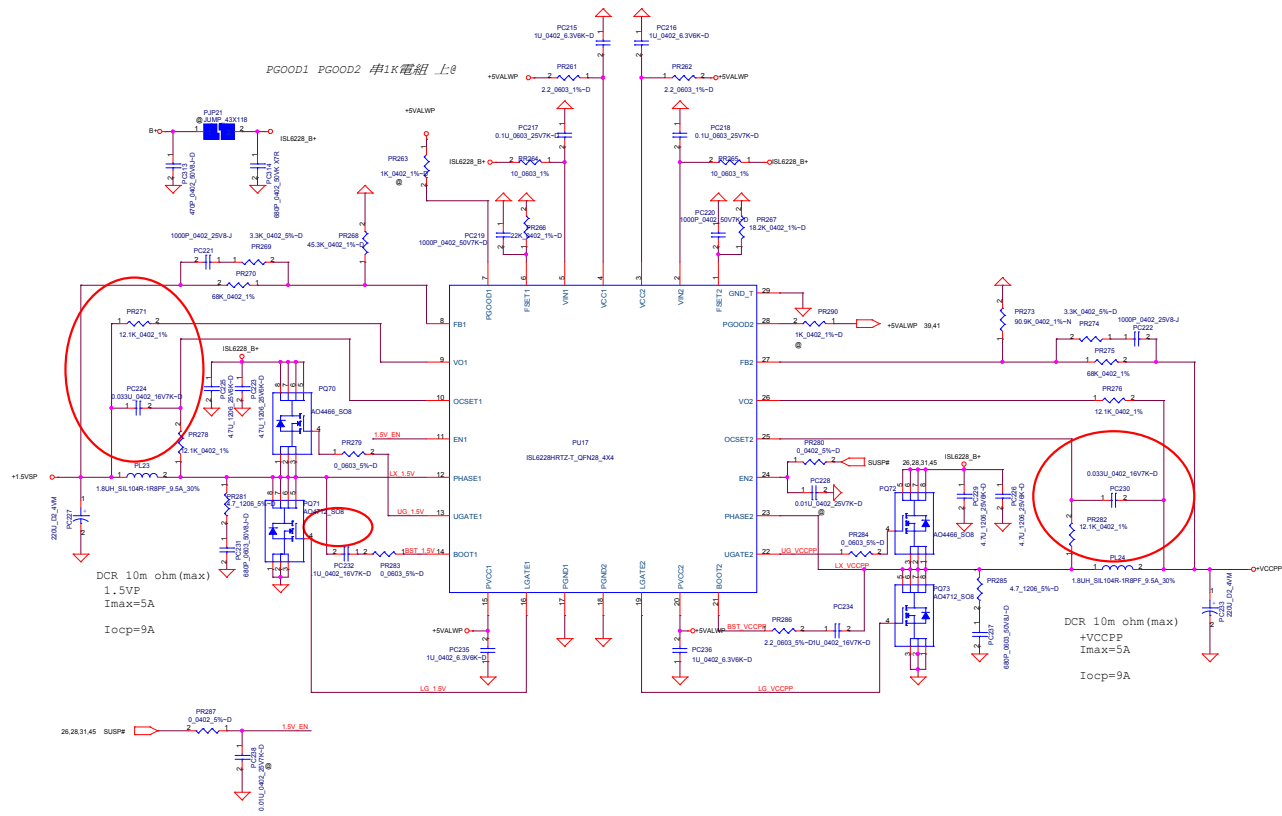




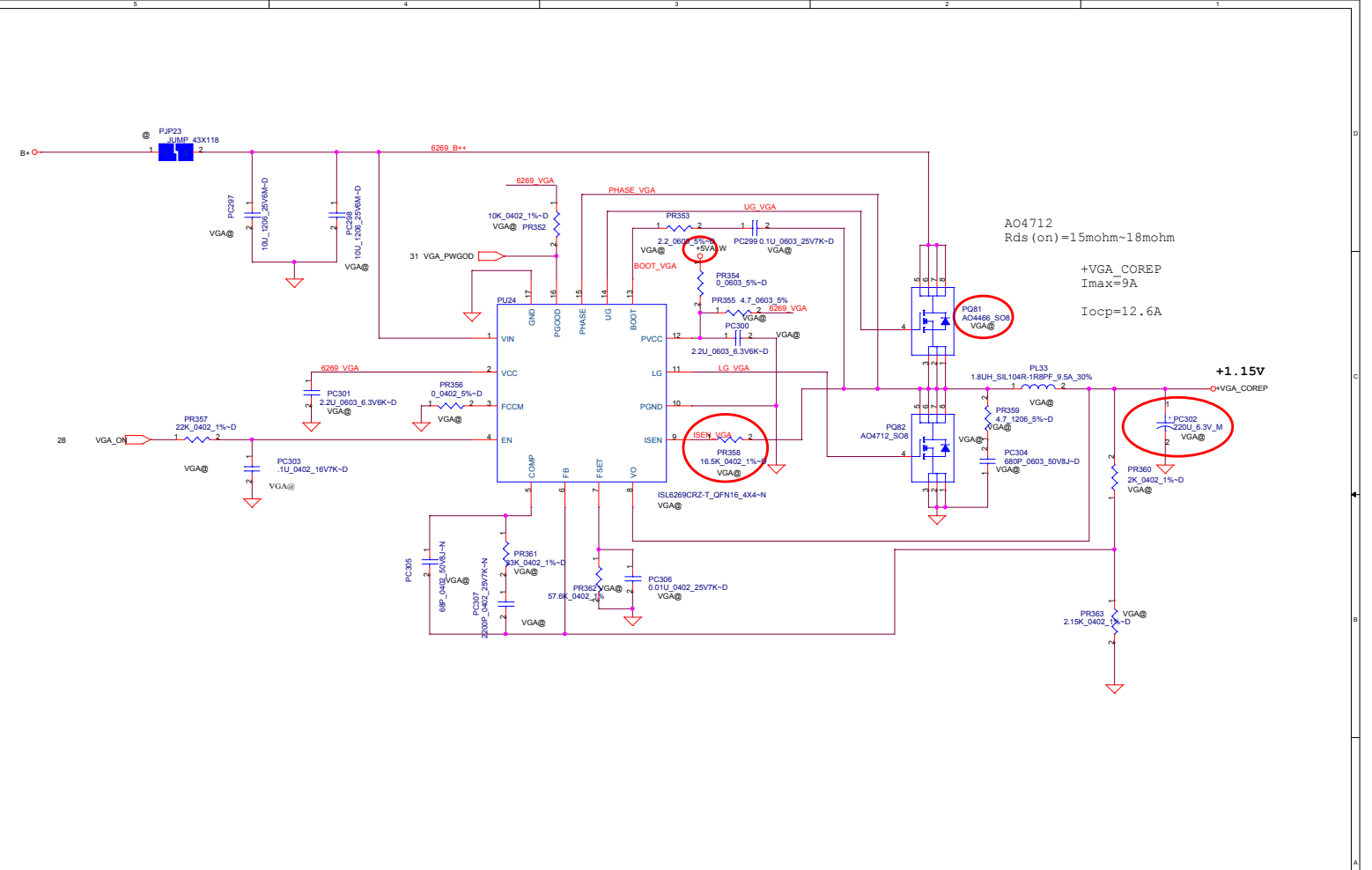




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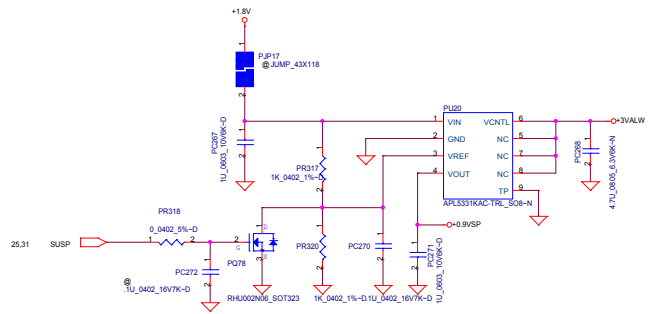
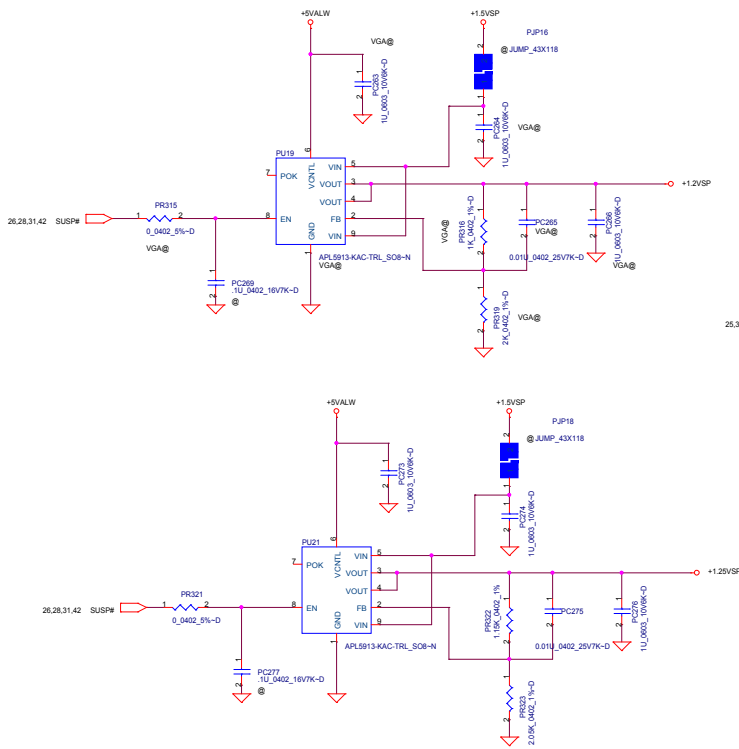


AO4712
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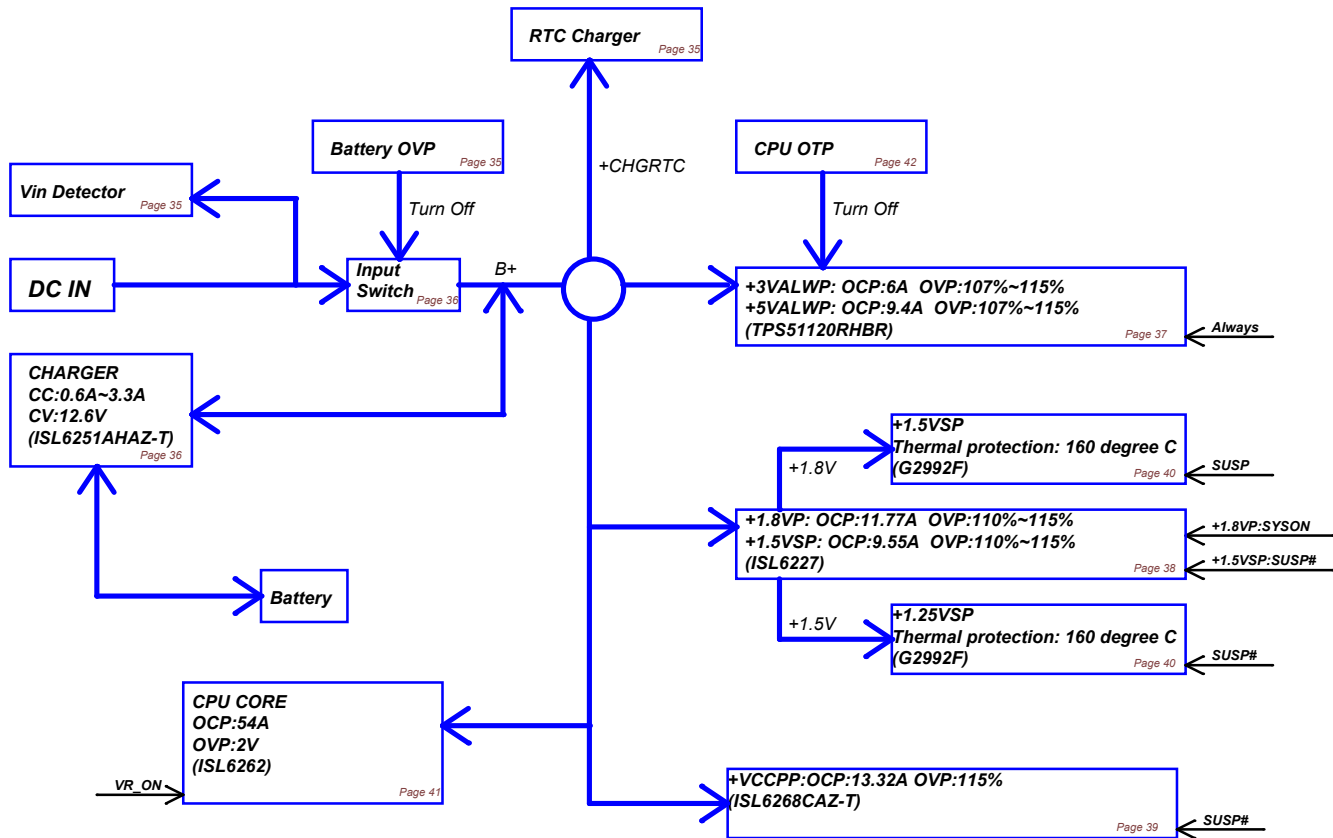
Item	Page#	Title	Date	Request Owner	Issue Description	Solution Description	Rev.
1	41	+3VALWP/+5VALWP	07/11/19	COMPAL	When in the DC-mode , shut down the system ,5valwp output not turn off	ADD PQ76 to turn off 5VALWP wehn shut down the system in the DC-mode	
2	40	Charge	07/11/25	COMPAL	Change RTC circuitry part	del PD16 PC285 PL29 JRTC1	
3	40	Charge	07/11/25	COMPAL	change charge voltage can to adjust	ADD PR53 PR54	
4	40	Charge	07/11/25	COMPAL	increase Coin RTC battery circuitry	ADD PD2 PR1 PC1	
5	40	Charge	07/11/25	COMPAL	increase BQ24751 Vin Detector function	increase PR232	
6	40	Charge	07/12/26	COMPAL	change charge voltage can to adjust	Change PR53 from 15K to 4.3K	
7	42	1.5VSP/+VCCPF	07/12/26	COMPAL	adjust 1.5VSP/+VCCPF OCP set	Change PR271 PR276 PR278 PR282 from 9.09K to 12.1K	
8	43	1.8VP	07/12/26	COMPAL	adjust 1.8VP OCP set	Change PR347 from 12.1K to 16.5K	
9	44	VGA_CORE	07/12/26	COMPAL	adjust VGA_CORE OCP set	Change PR358 from 12.1K to 16.5K	
10	41	+3VALWP/+5VALWP	07/12/26	COMPAL	The schematic location doesn't correspond to PCBA	Change location from PQ76 to PQ74	
11	43	1.8VP	07/12/26	COMPAL	delete resistor 0ohm for HW request	DEL PR342	
12	44	VGA_CORE	07/12/26	COMPAL	delete resistor 0ohm for HW request	DEL PR354	
13	46	CPU_CORE	07/12/26	COMPAL	modify MOS type S08 to Power Pack for height limit	DEL PQ44 PQ48	
14	43	1.8VP	08/01/04	COMPAL	In order to replace IC for system request	ADD PU23 PR342	
15	44	VGA_CORE	08/01/04	COMPAL	In order to replace IC for system request	ADD PU24 PR354	
16	41	+3VALWP/+5VALWP	08/01/04	COMPAL	When in the DC-mode , shut down the system ,5valwp output not turn off	ADD PD16 to turn off 5VALWP wehn shut down the system in the DC-mode	
17	40	Charge	08/01/04	COMPAL	adjust battery charge voltage set	CHANGE PR53 from 15K to 4.3K	
18	40	Charge	08/01/04	COMPAL	VIN Detector has the same function	DEL PR230 PQ62	
19							
20			08/01/04	COMPAL	Increase Resistor on charge boot for EMI request	CHANGE PR220 PR286from 0 to 2.2 ohm	
21			08/01/04	COMPAL	Increase Capacitor on charge boot for EMI request	ADD PC123 PC133 PC231 PC237 PC309 PC310 PC311 PC313 PC312 PC314 PC293	
22			08/01/04	COMPAL	Increase Resistor on charge boot for EMI request	ADD PR158 PR168 PR285 PR281 PR346	
23			08/01/04	COMPAL	Increase Bead on charge boot for EMI request	ADD PL17 PL28	
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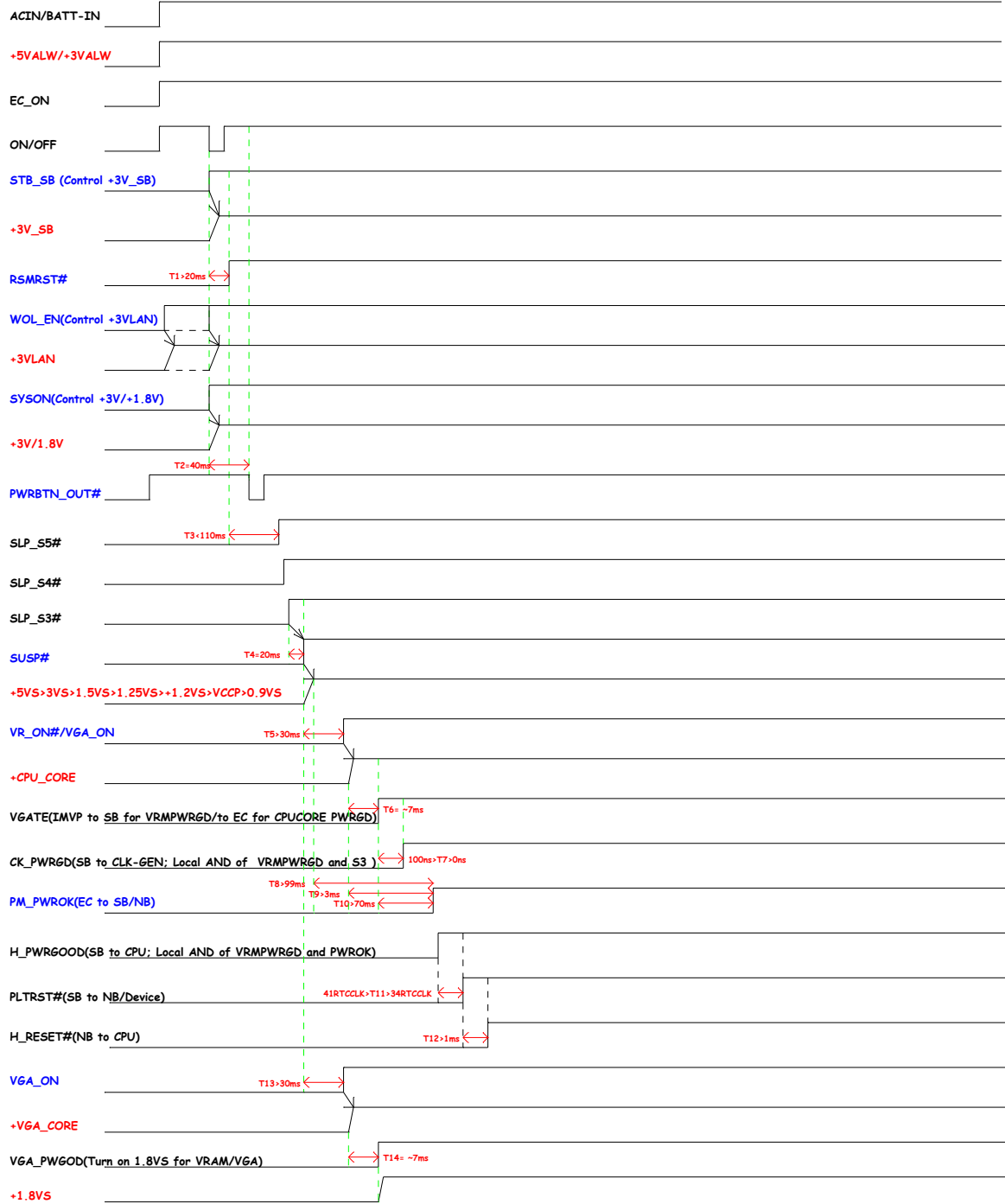
Item	Page#	Title	Date	Request Owner	Issue Description	Solution Description	Rev.
1	25	O2I29_Card Reader/I394	07/10/30	compal	CardBus vendor change	CardBus R5C833 change to O2I29	0.3
2	28	EC KB926/REED SW/TPM1.2	07/10/30	compal	Change pull up resistance	Change EC pin17,18 pull up to 4.7Kohm	0.3
3	28	EC KB926/REED SW/TPM1.2	07/10/30	compal	Need pull up	NET MIC_DIAG pull up R to 10Kohm 3VS	0.3
4	13,14	DDR2 SODIMM-I,II Socket	07/10/30	compal	Change Capacitance	Change C84,C189 to SGA00002680 330U	0.3
5	28	EC KB926/REED SW/TPM1.2	07/10/30	compal	EC update rev	EC change to 926C	0.3
6	31	DC/DC Interface	07/10/30	compal	Need pull down	SYSON pull down 10K ohm	0.3
7	31	DC/DC Interface	07/11/12	compal	Delete	Remove SIM card connector	0.3
8	15	CRT Conn.& LCD Conn.	07/11/16	compal	Add LCD control pin	Add LCD control pin LCD_DET# & LCD_TST & LCD_VCC_TEST_EN	0.3
9	30	USB/ BT/ FP/ Felica/Camera	07/11/22	compal	support wake up by USB key	change U32, U33 from 3VS to 3VALW	0.3
10	28	EC KB926/REED SW/TPM1.2	08/01/07	compal	Change for quick-set function	ADD W_DISABLE#, WL_DIS#, BT_DIS#	0.4
11	29	PWR_OK/ BTN/ KB / TouchPad	08/01/08	compal	Add Bead for EMI from function board	ADD L93, L94 FOR ESB_DAT, ESB_CLK	1.0
12	25	O2I29_Card Reader/I394	08/02/25	compal	For MS can't access after reboot	ADD Q82, R932, DELETE C335 FOR CARD READER	1.0
13	27	Mini Card/WLAN/WWAN/Robson	08/02/27	customer	remove Robson & felica function	Delete JMINI3 & JFE1	1.0
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JAL30 Power Bock



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