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Compal Confidential

Schematics Document

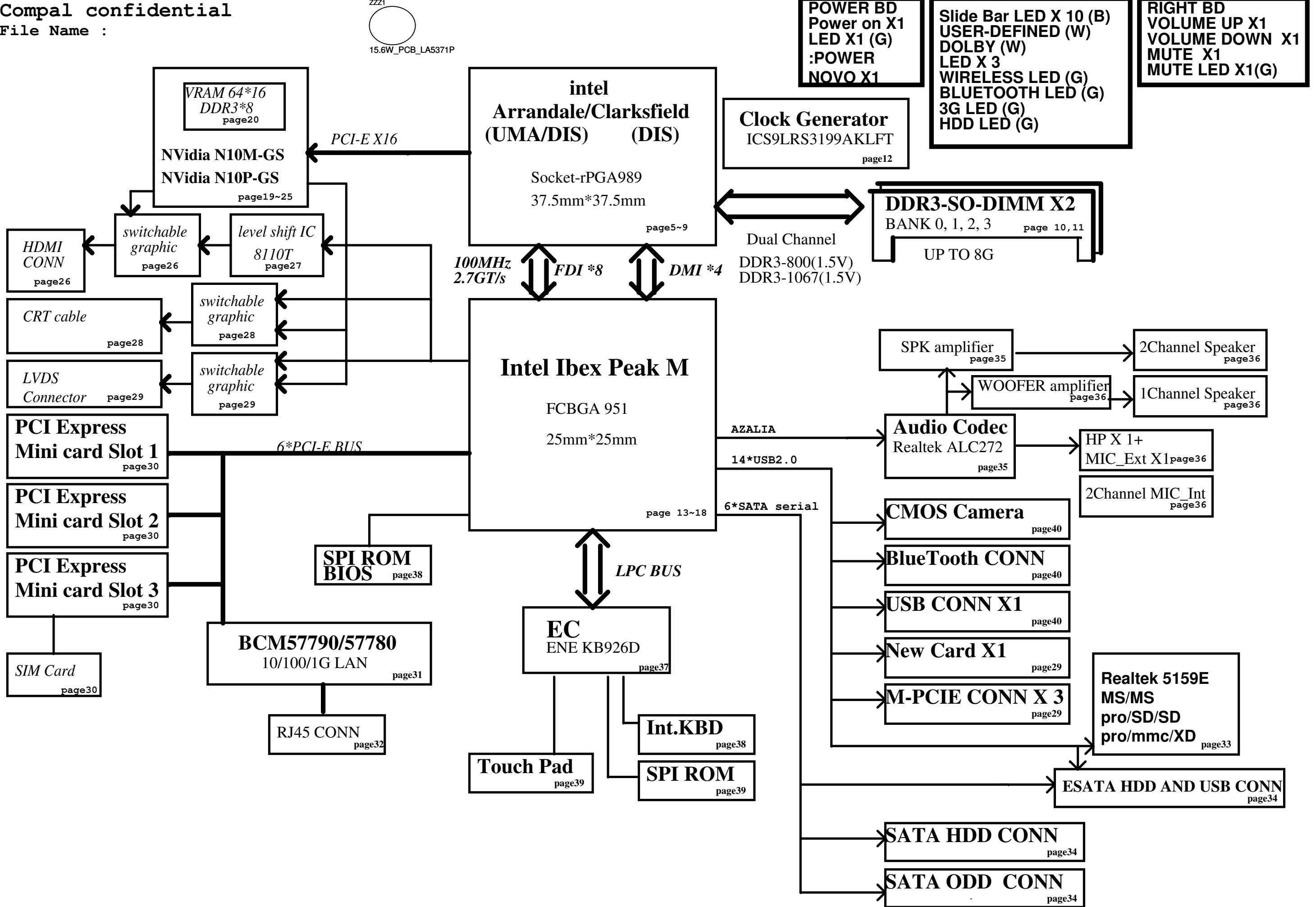
Arrandale/Clarksville

with Intel IBEX PEAK-M core logic

NIWBA

REV: 0.1

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DDR3 Voltage Rails

power plane State	+B	+5VALW +3VALW	+1.5V	+5VS +3VS +1.5VS +VCCP +CPU_CORE +VGA_CORE +1.8VS +0.75VS +1.05VS
S0	O	O	O	O
S3	O	O	O	X
S5 S4/AC	O	O	X	X
S5 S4/ Battery only	O	X	X	X
S5 S4/AC & Battery don't exist	X	X	X	X

@ FUNCTION

EVT		NON-USE	
45@	(45 BOM)		
GIGA@	(GIGA LAN)	100@	(100 LAN)
NO TVSW@	(NON TV POWER SW)	TVSW@	(TV POWER SW)
ARRAY@	(ARRAY MIC)	MONO@	(MONO MIC)
S512@	FOR X76 BOM		
H512@	FOR X76 BOM		
S1024@	FOR X76 BOM		
H1024@	FOR X76 BOM		
X76@	(X76 BOM)		
M1@	(DDR M1 MODE)		
3G@	(3G MODE)		
10M@	FOR 10M CHIP		
10P@	FOR 10P CHIP		
UMA@	FOR Auberndale		
DIS@	FOR Auberndale/Clarksfield		
VGA@	FOR NVIDIA PART		

SMBUS Control Table

	SOURCE	RAM M2	BATT	KE926	SODIMM	CLK CHIP	WLAN WWAN	N10x Thermal Sensor	N10x	Cap sensor board	NEW CARD	PCH
SMB_EC_CK1 SMB_EC_DA1	KB926 +3VALW	X	V +3VALW	X	X	X	X	X	X	X	X	X
SMB_EC_CK2 SMB_EC_DA2	KB926 +3VALW	X	X	X	X	X	X	X	X	X	X	V +3VALW
SMBCLK SMBDATA	PCH +3VALW	V +3VALW	X	X	V +3VS	V +3VS	X	X	X	X	V +3VS	X
SML0CLK SML0DATA	PCH +3VALW	X	X	X	X	X	X	X	X	X	X	X
SML1CLK SML1DATA	PCH +3VALW	X	X	V +3VALW	X	X	X	V +3VS	X	V +3VS	X	X

I2C / SMBUS ADDRESSING

DEVICE	HEX	ADDRESS
DDR SO-DIMM 0	A0	1 0 1 0 0 0 0 0
DDR SO-DIMM 1	A4	1 0 1 0 0 1 0 0
CLOCK GENERATOR (EXT.)	D2	1 1 0 1 0 0 1 0

PCIE PORT LIST

PORT	DEVICE
1	NEW CARD
2	WLAN
3	LAN
4	3G
5	
6	TV TUNNER
7	
8	

USB PORT LIST

PORT	DEVICE
0	LEFT SIDE
1	RIGHT SIDE
2	CMOS
3	
4	RIGHT SIDE
5	CARD READER
6	
7	
8	WIRELESS
9	TV TUNNER
10	NEW CARD
11	BT
12	
13	3G

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VGA and DDR3 Voltage Rails (N10x GPIO)

GPIO	I/O	ACTIVE	Function Description
GPIO0	N/A	N/A	
GPIO1	IN	-	Hot plug detect for IFP link C
GPIO2	OUT	H	Panel Back-Light brightness(PWM capable)
GPIO3	OUT	H	Panel Power Enable
GPIO4	OUT	H	Panel Back-Light On/Off (PWM)
GPIO5	OUT	-	GPU VID0
GPIO6	OUT	-	GPU VID1
GPIO7	OUT	-	GPU VID2
GPIO8	I/O	L	Thermal Catastrophic Overtemp
GPIO9	OUT	L	Thermal Alert
GPIO10	OUT		Memory VREF switch
GPIO11	I/O	L	SLI raster sync
GPIO12	IN	-	AC power detect pin
GPIO13	OUT	-	MEM_VID orPower supply control
GPIO14	OUT	-	Power supply control
GPIO15	IN	-	Hot plug detect for IFP Link E
GPIO16	OUT	-	Programmable Fan Control
GPIO17	IN	-	
GPIO18	IN	-	
GPIO19	IN	-	Hot plug detect for IFP Link D
GPIO20	IN	-	
GPIO21	IN	-	Hot plug detect for IFP link F
GPIO22	IN	-	SLI swap ready signal
GPIO23	I/O		

GPIO6	GPIO5	N10M-GS	N10P-GS
GPU_VID1	GPU_VID0	VGA_CORE	P-State
0	0	0.8V	12
0	1	0.85V	12
1	1	0.9V	0, 10

Performance Mode P0 TDP at Tj = 102 C* (DDR3)

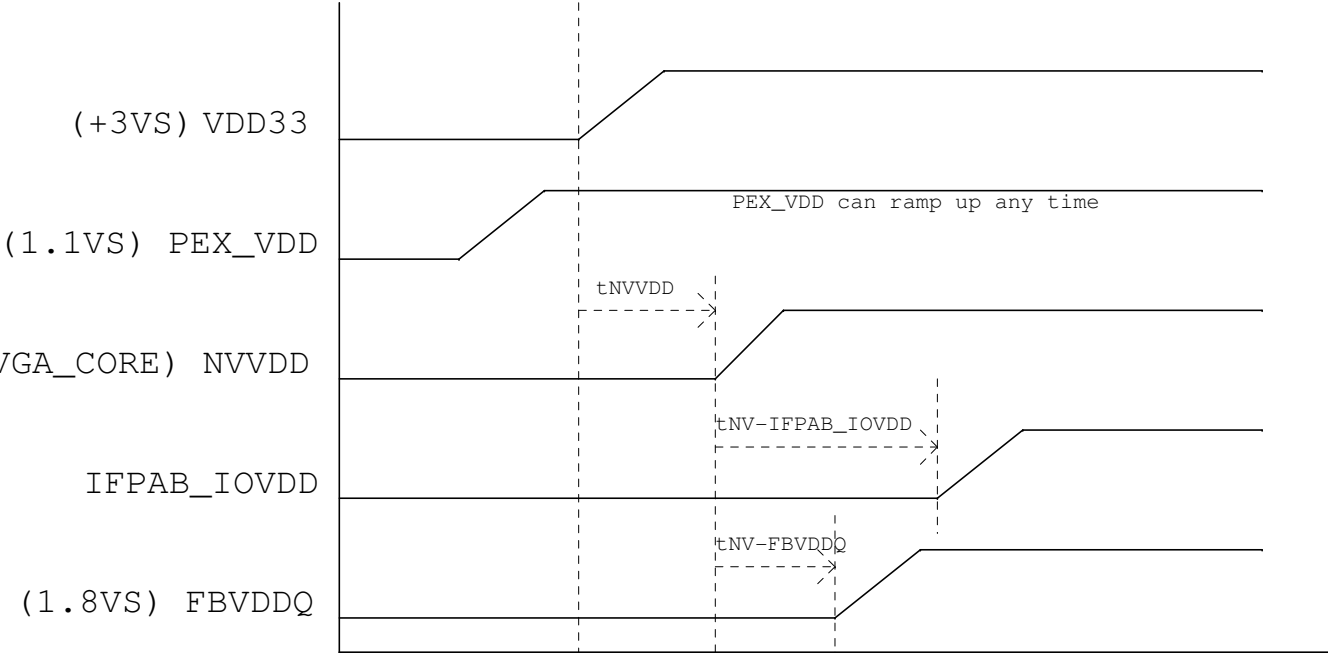
Products	GPU (4)	Mem (1,5)	NVCLK /MCLK (MHz)	NVVDD			FBVDD (1.5V)		FBVDDQ (GPU+Mem) (1.5V)		PCI Express (1.05V) (6)		I/O and PLLVDD (1.8V)		I/O and PLLVDD (1.05V)		Other (3.3V)	
	(W)	(W)		(V)	(A)	(W)	(A)	(W)	(A)	(W)	(mA)	(W)	(mA)	(W)	(mA)	(W)	(mA)	(W)
N10P-GS 128bit 1024MB DDR3	21.07	6.67	TBD	TBD	18.25	17.34	2.06	3.09	4.09	6.14	850	0.89	75	0.14	63	0.07	55	0.18
N10P-GE 128bit 1024MB DDR3	20.97	6.73	TBD	TBD	19.17	17.25	2.03	3.05	4.09	6.14	840	0.88	75	0.14	63	0.07	55	0.18
N10P-LP 128bit 1024MB DDR3	15.48	6.44	TBD	TBD	13.95	11.86	1.90	2.85	3.99	5.99	810	0.85	75	0.14	63	0.07	55	0.18

Performance Mode P0 TDP at Tj = 102 C* (DDR3)

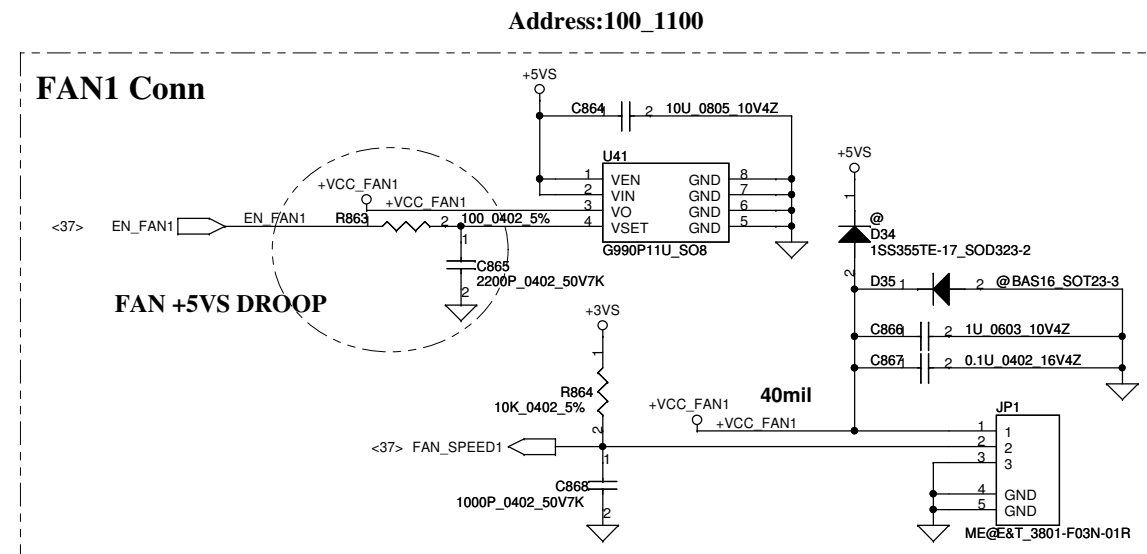
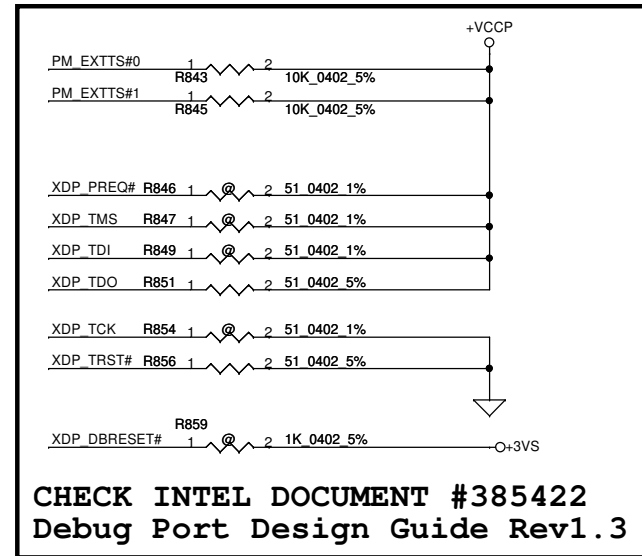
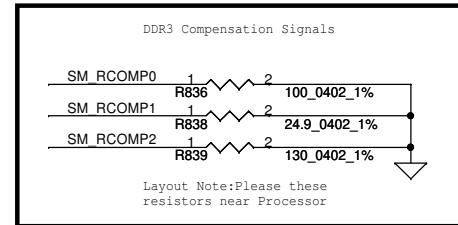
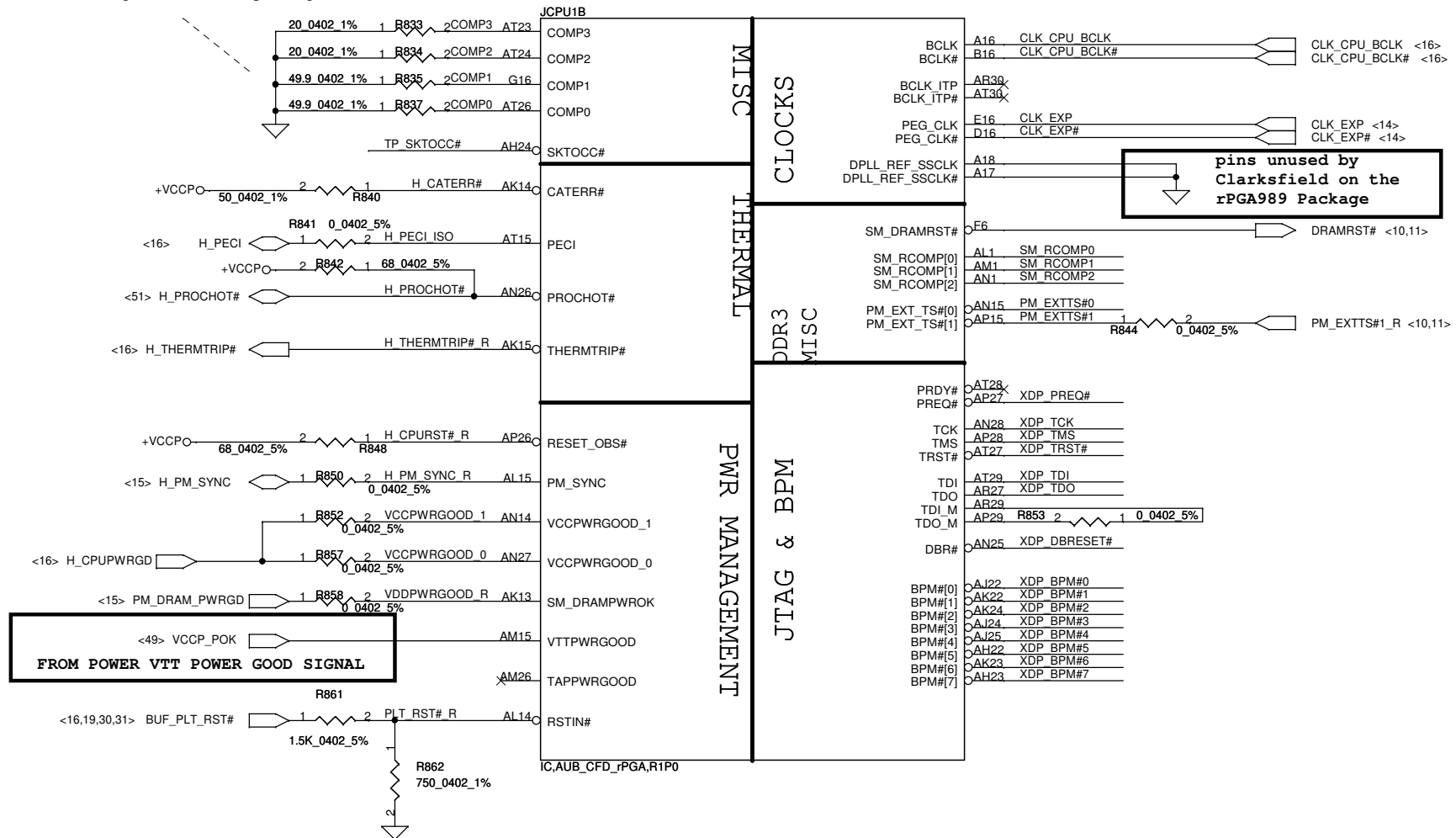
Products	GPU (4)	Mem (1,5)	NVCLK /MCLK (MHz)	NVVDD			FBVDD (1.5V)		FBVDDQ (GPU+Mem) (1.5V)		PCI Express (1.05V) (6)		I/O and PLLVDD (1.8V)		I/O and PLLVDD (1.05V)		Other (3.3V)	
	(W)	(W)		(V)	(A)	(W)	(A)	(W)	(A)	(W)	(mA)	(W)	(mA)	(W)	(mA)	(W)	(mA)	(W)
N10M-GE 64bit 512MB DDR3	13.36	2.93	TBD	TBD	11.89	10.70	0.66	0.99	2.16	3.24	792	0.83	75	0.14	63	0.07	100	0.33
N10M-GS 64bit 512MB DDR3	14.29	3.10	TBD	TBD	11.53	11.53	0.70	1.05	2.28	3.42	817	0.86	75	0.14	63	0.07	100	0.33
N10M-LP 64bit 512MB DDR3	8.28	2.91	TBD	TBD	6.60	5.61	0.62	0.93	2.20	3.3	782	0.82	75	0.14	63	0.07	100	0.33

Power Sequence

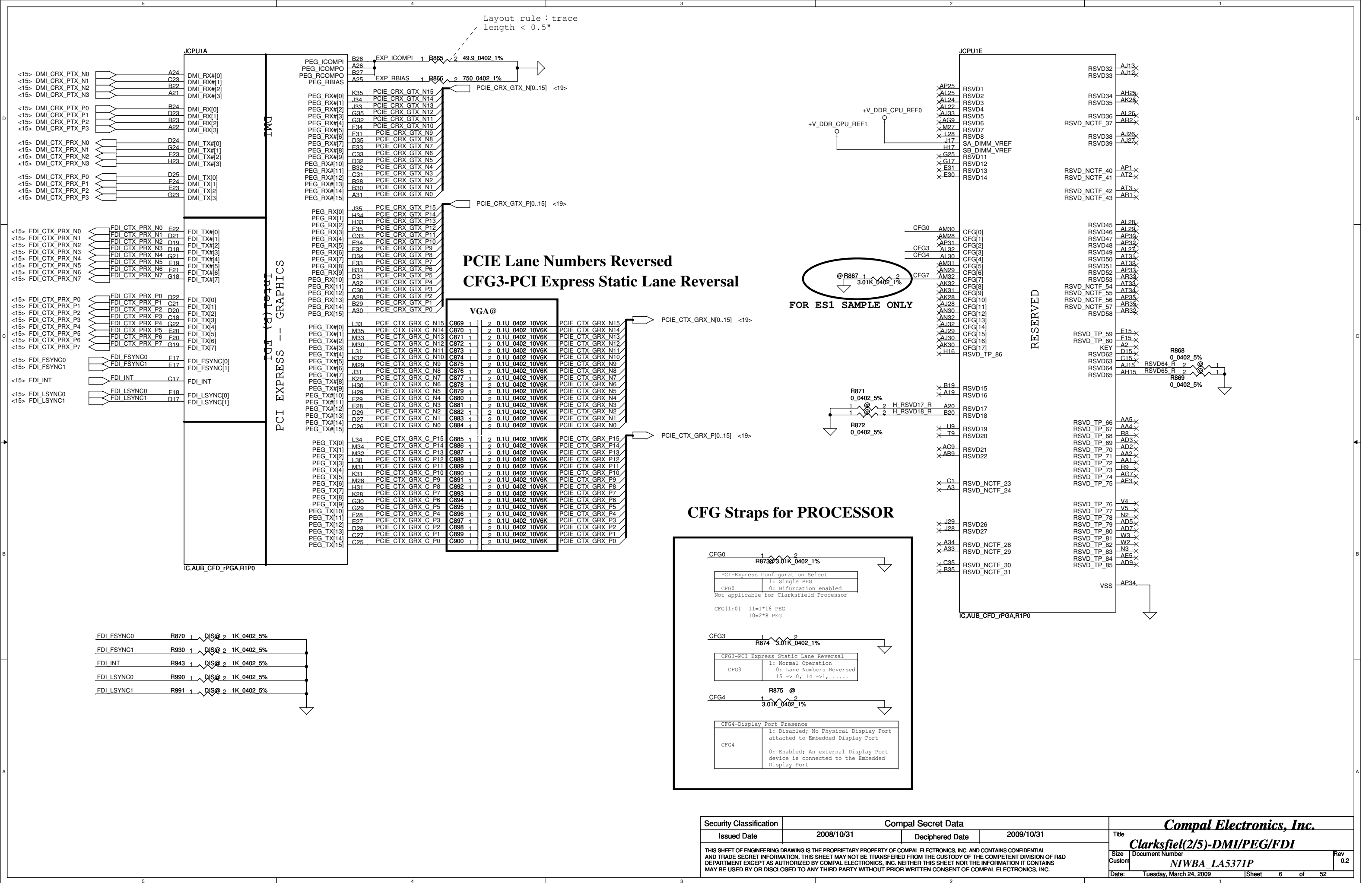
The ramp time for any rail must be more than 40us

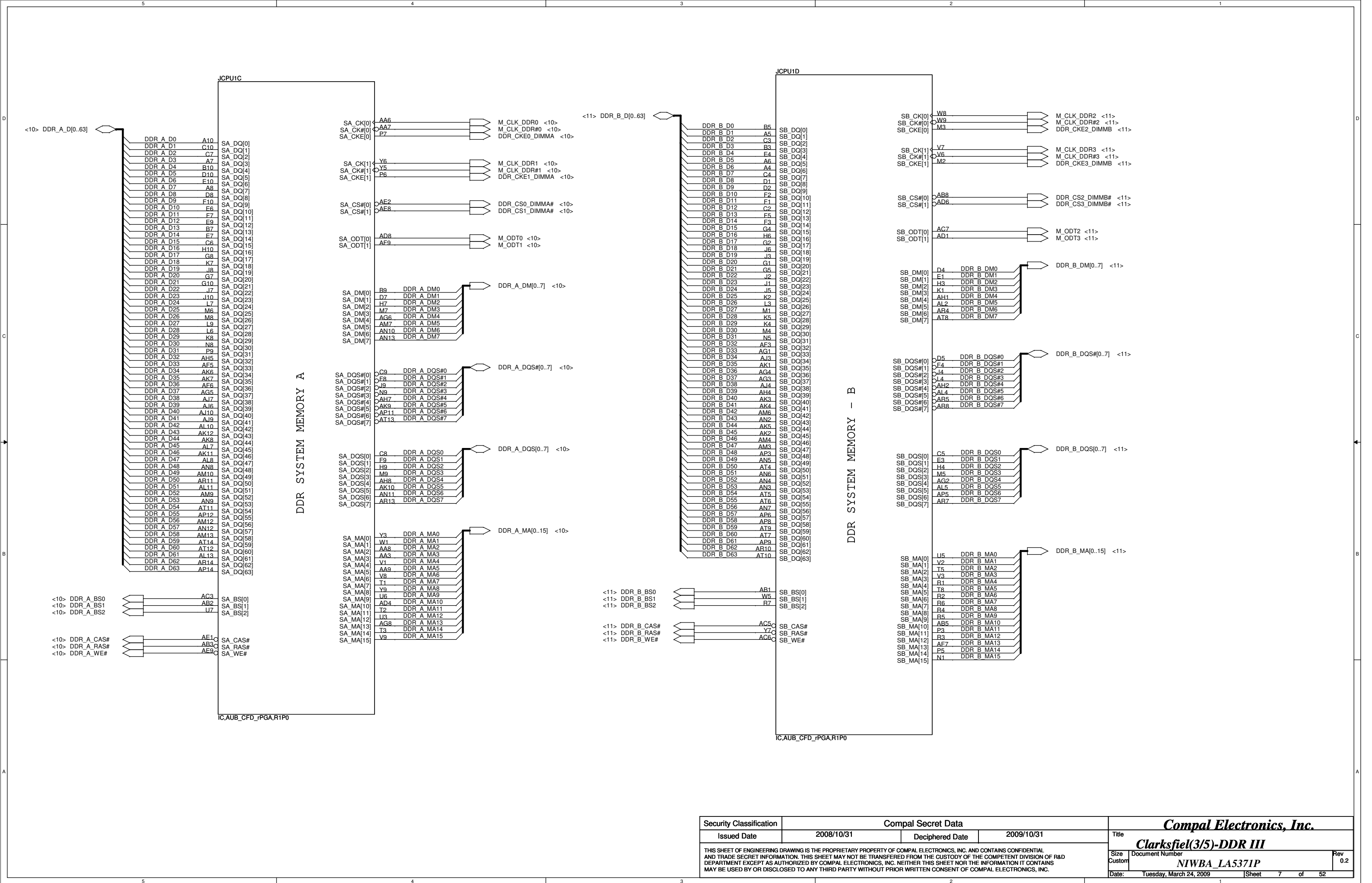


Layout rule : 10mil width trace
length < 0.5", spacing 20mil

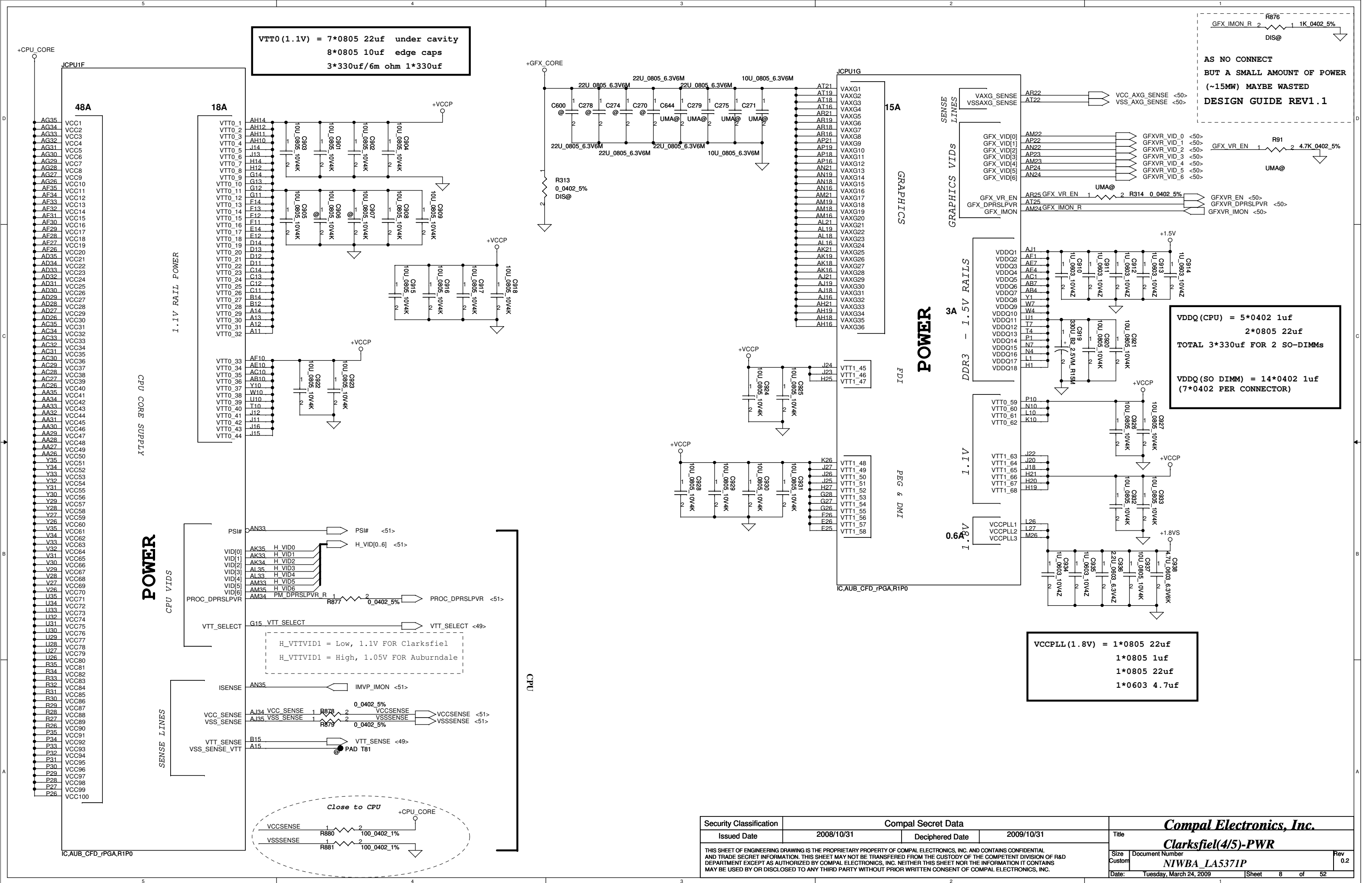


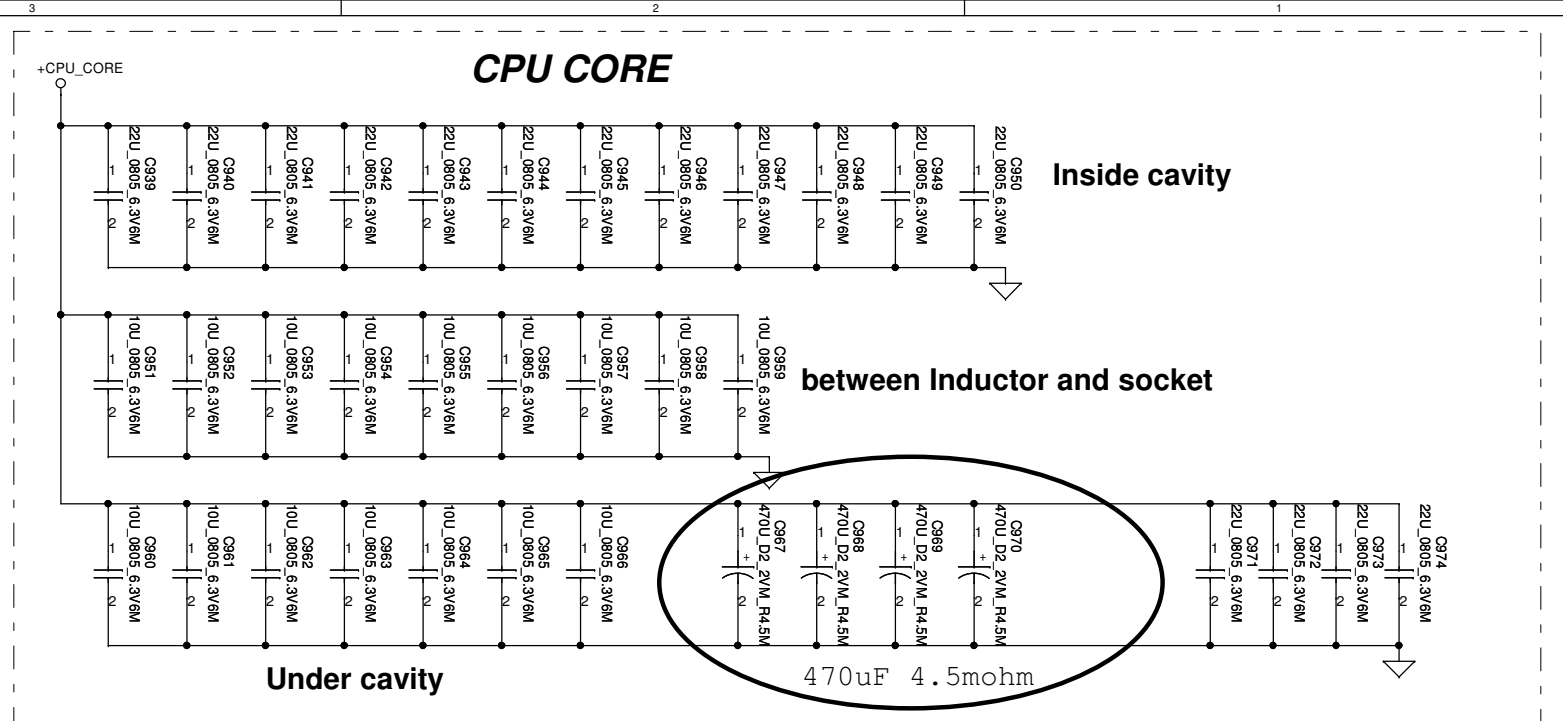
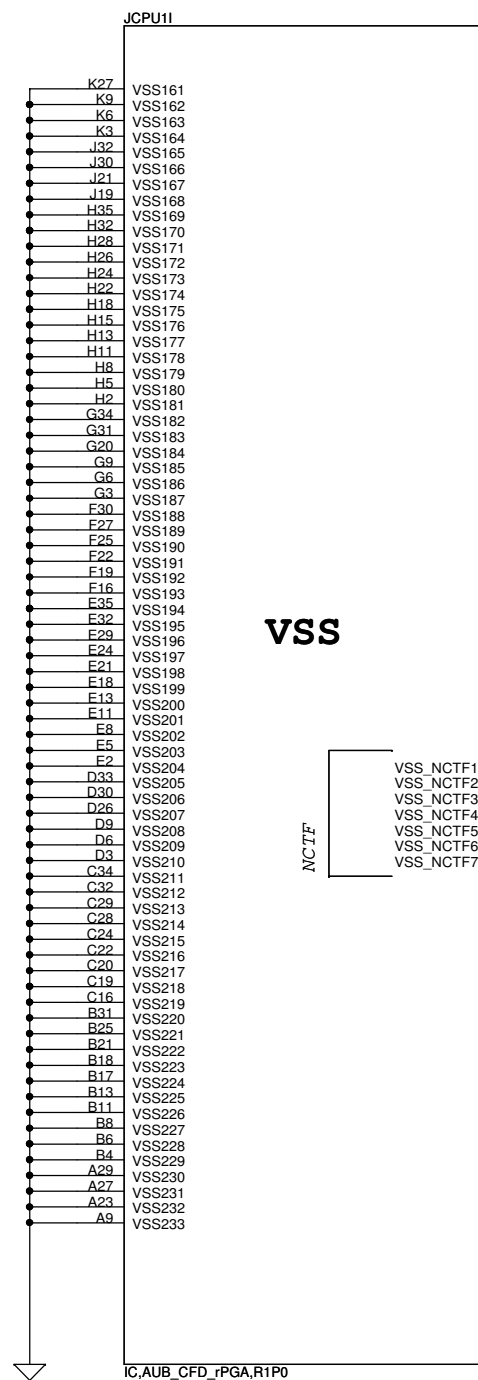
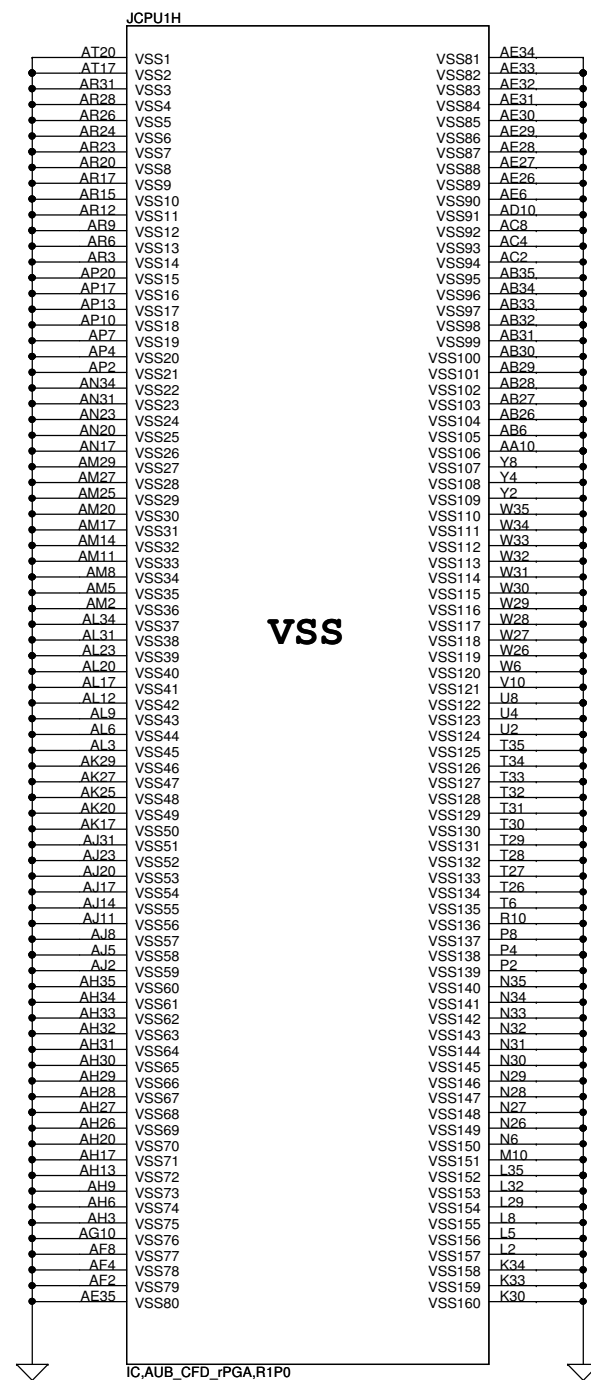
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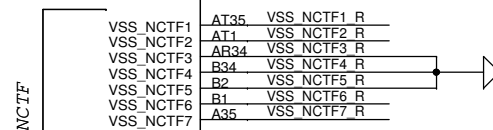


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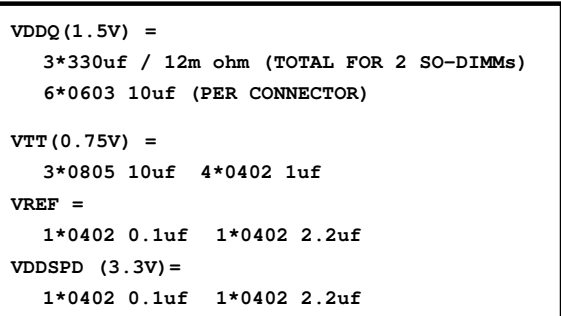




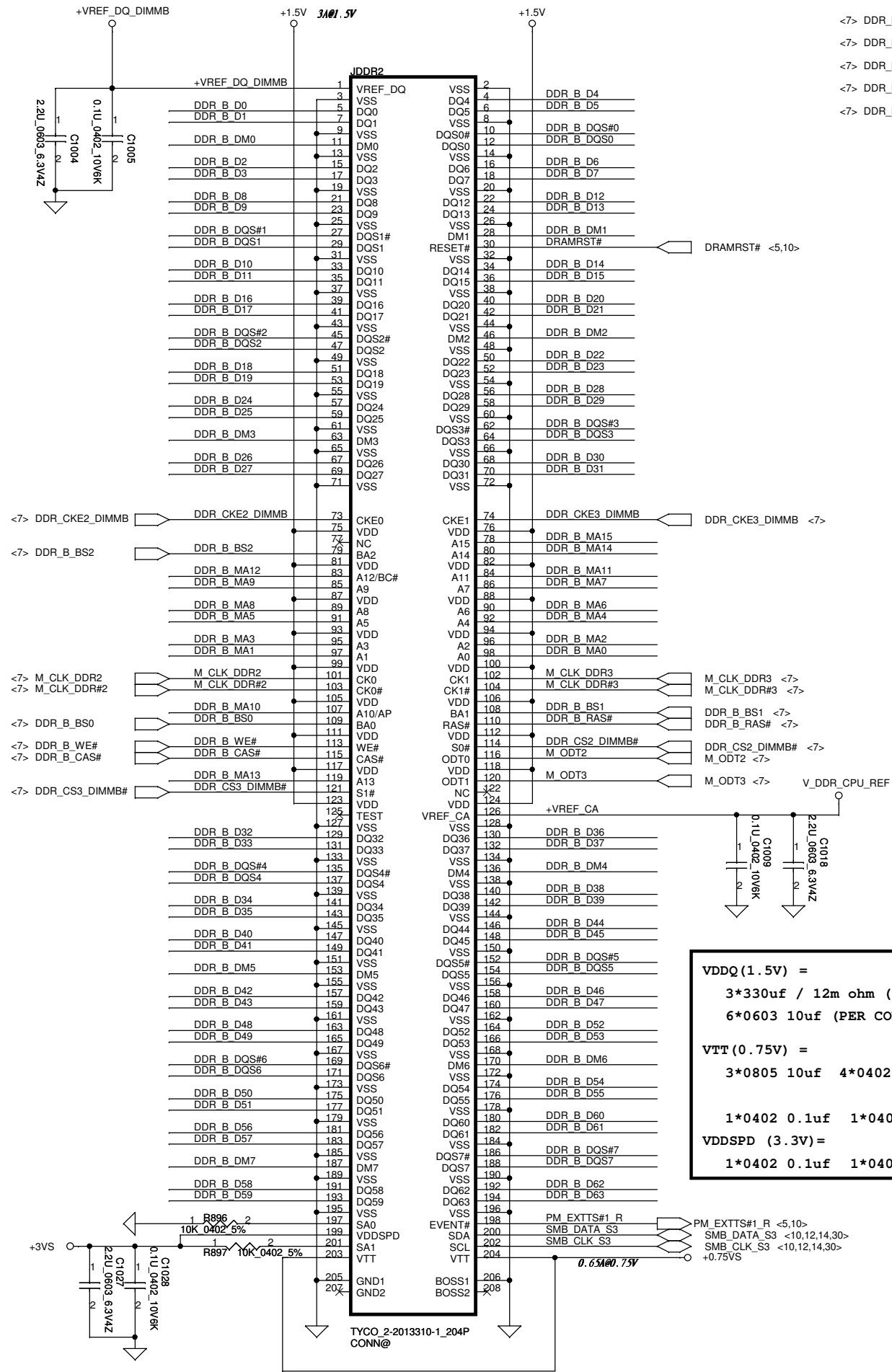
```
+CPU_CORE = 12*0805 22uf  INSIDE CAVITY
          7*0805 10uf  UNDER CAVITY AND 9*0805 10uf BETWEEN INDUCTOR AND SOCKET ON TOP LAYER
          4*470uf/4m ohm 2*470uf
```



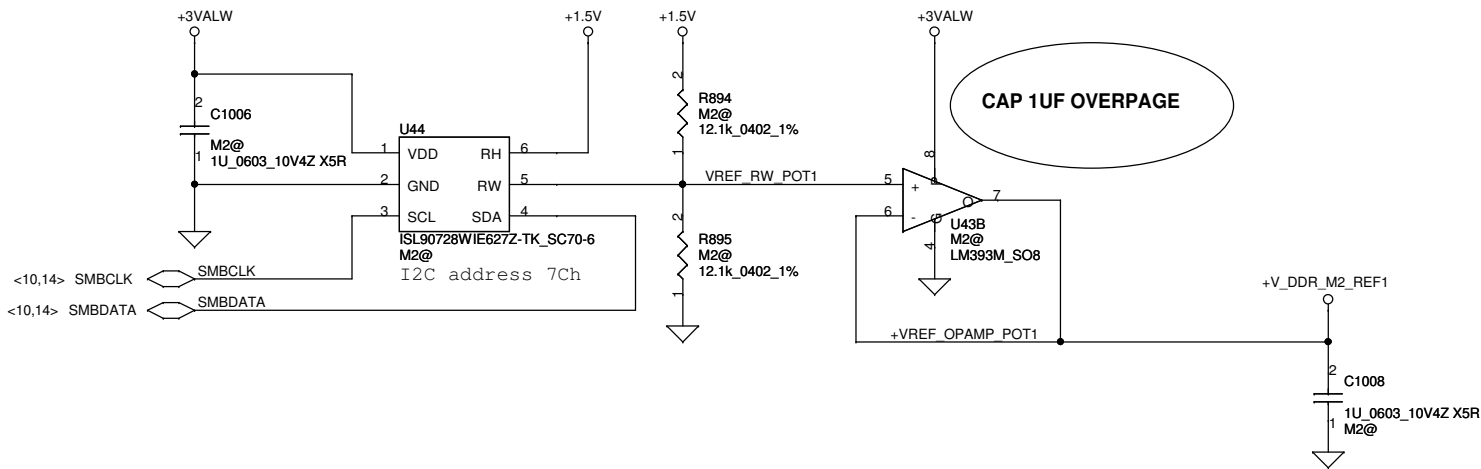
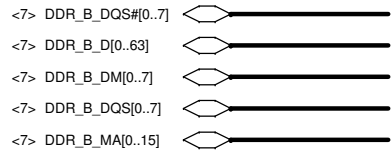
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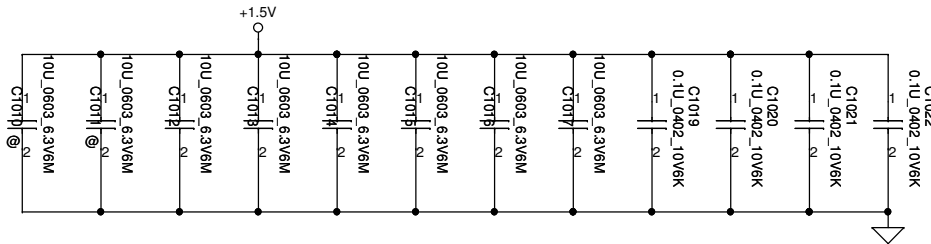
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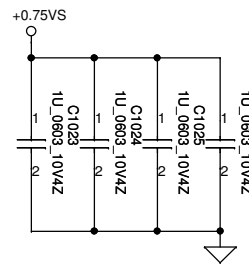
BOT SLOT



Layout Note:
Place near DIMM



Layout Note:
Place near DIMM



VDDQ (1.5V) =
3*330uf / 12m ohm (TOTAL FOR 2 SO-DIMMs)
6*0603 10uf (PER CONNECTOR)

VTT (0.75V) =
3*0805 10uf 4*0402 1uf

VDDSPD (3.3V) =
1*0402 0.1uf 1*0402 2.2uf

VDDSPD (3.3V) =
1*0402 0.1uf 1*0402 2.2uf

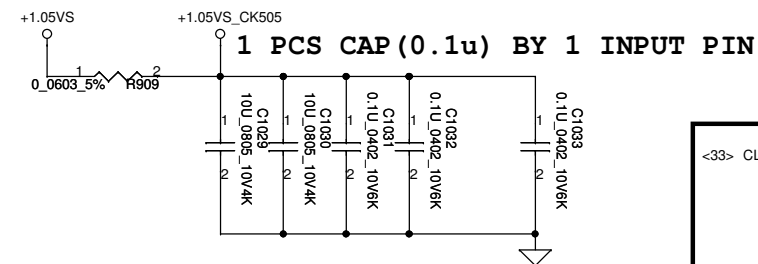
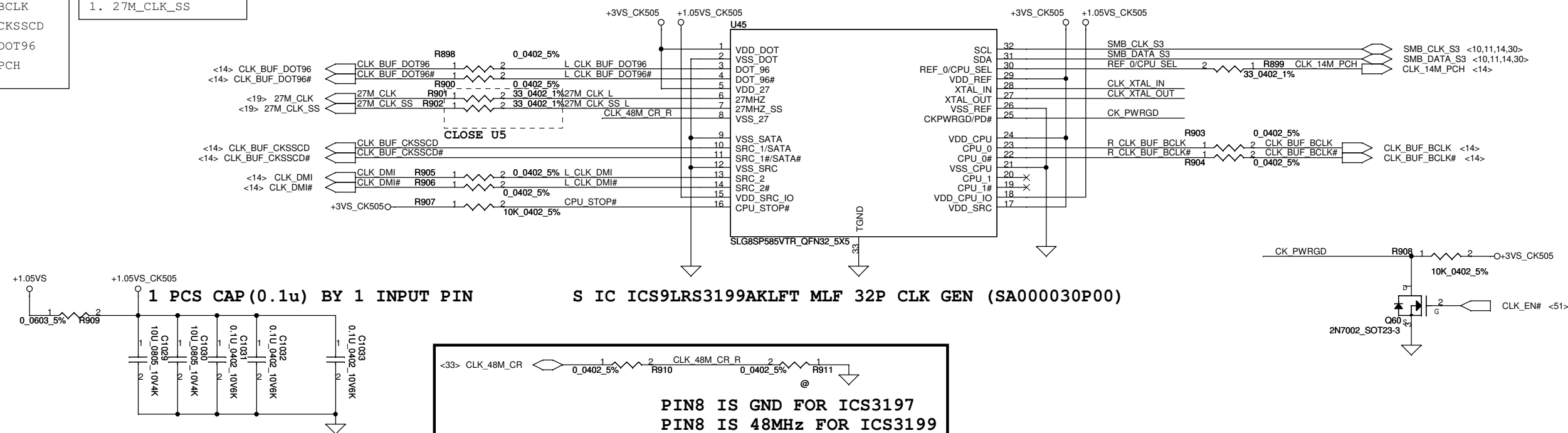
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CLK GEN TO PCH

1. CLK_DMI
2. CLK_BUF_BCLK
3. CLK_BUF_CKSSCD
4. CLK_BUF_DOT96
5. CLK_14M_PCH

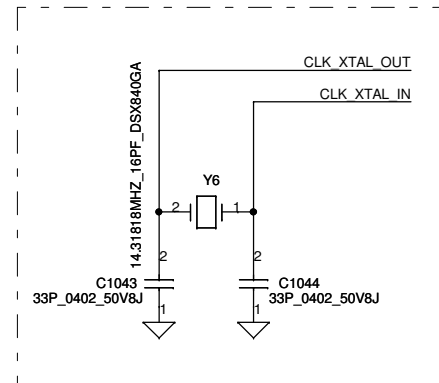
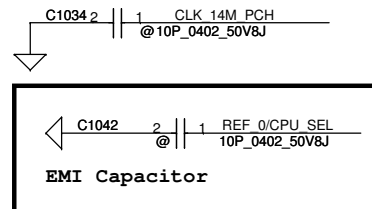
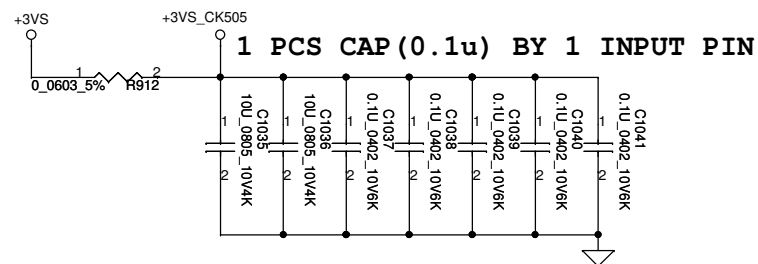
CLK GEN TO VGA

1. 27M_CLK
1. 27M_CLK_SS

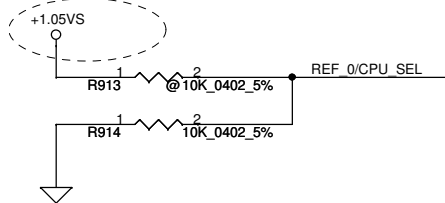


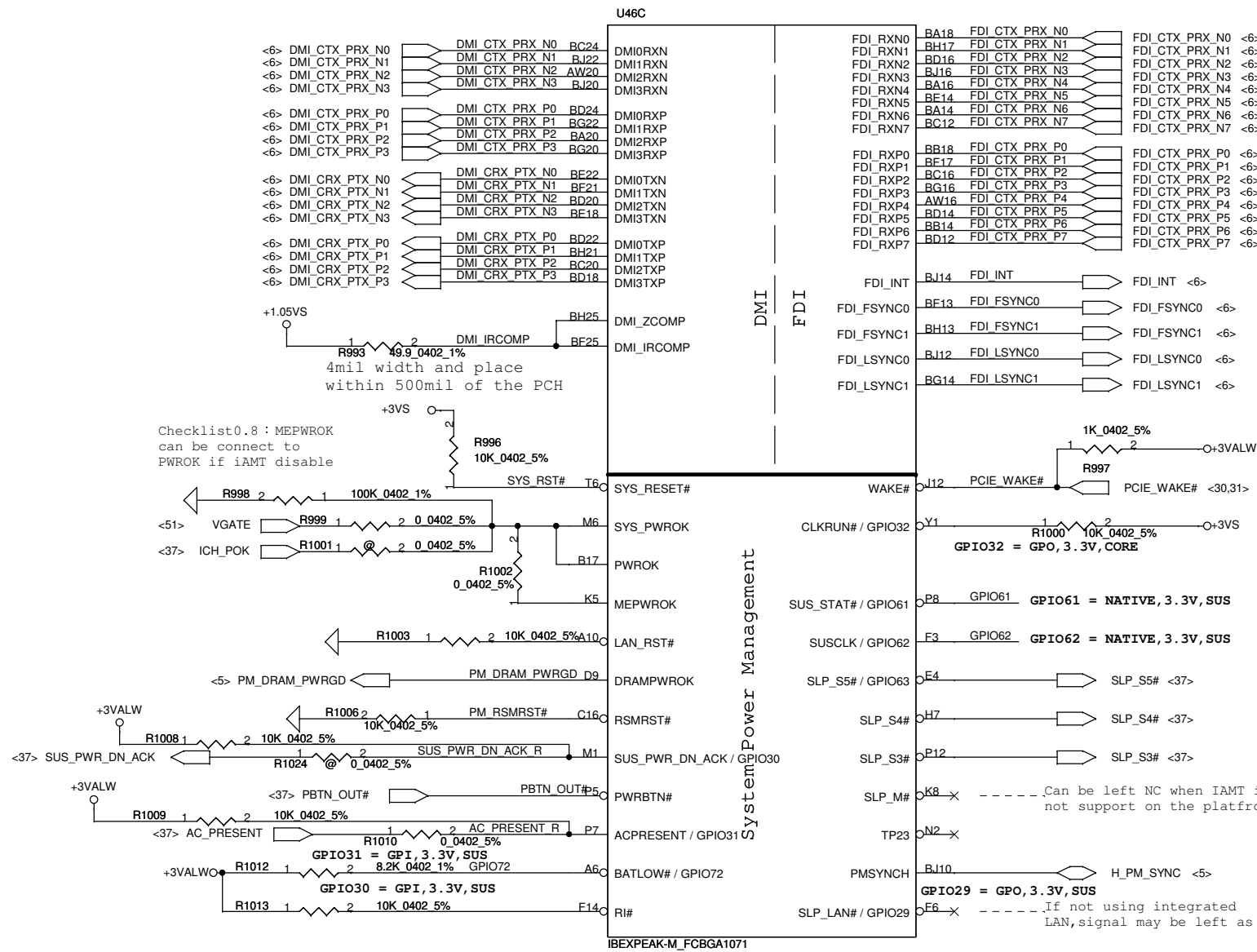
S IC ICS9LRS3199AKLFT MLF 32P CLK GEN (SA000030P00)

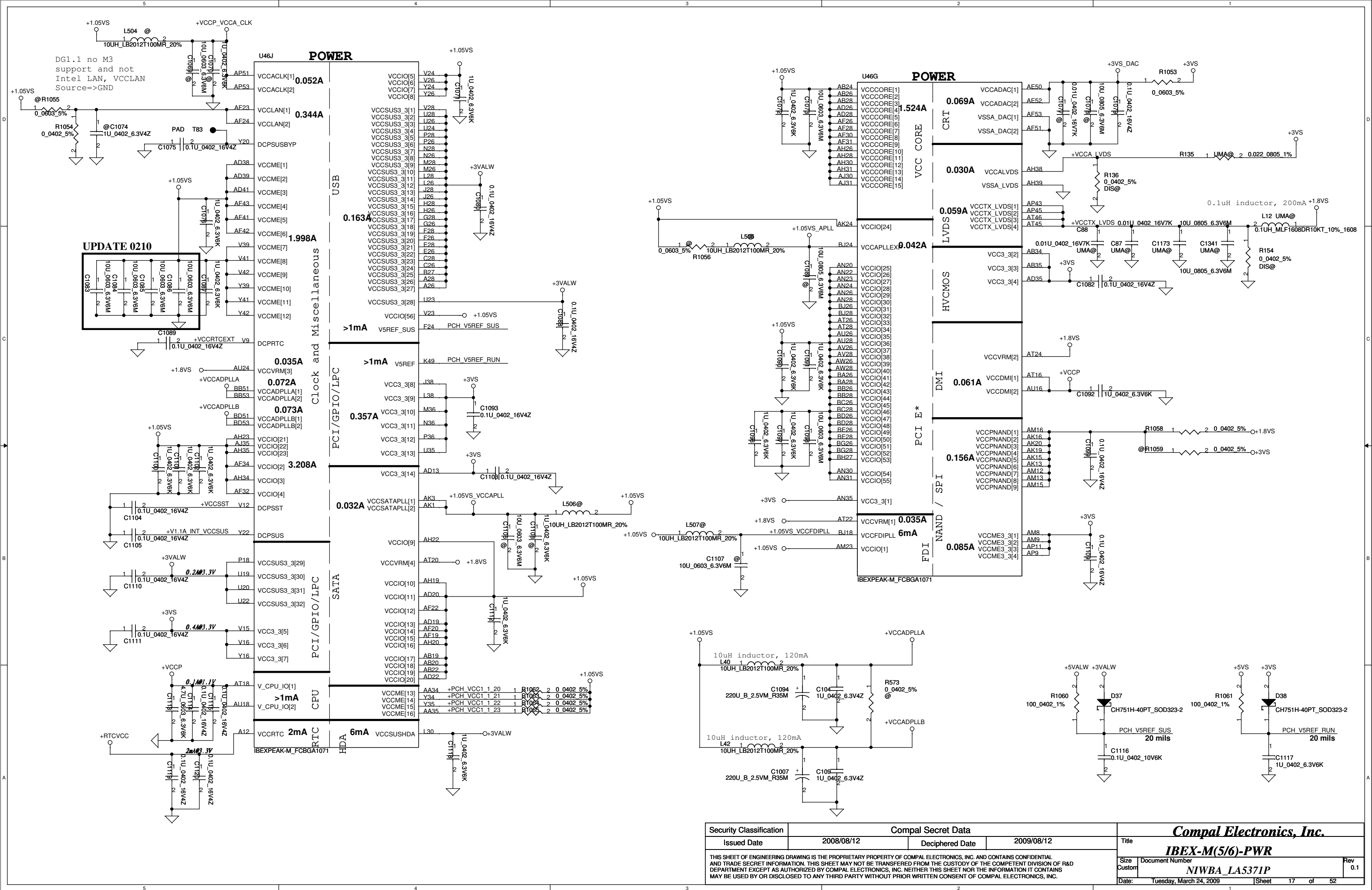
PIN8 IS GND FOR ICS3197
PIN8 IS 48MHz FOR ICS3199

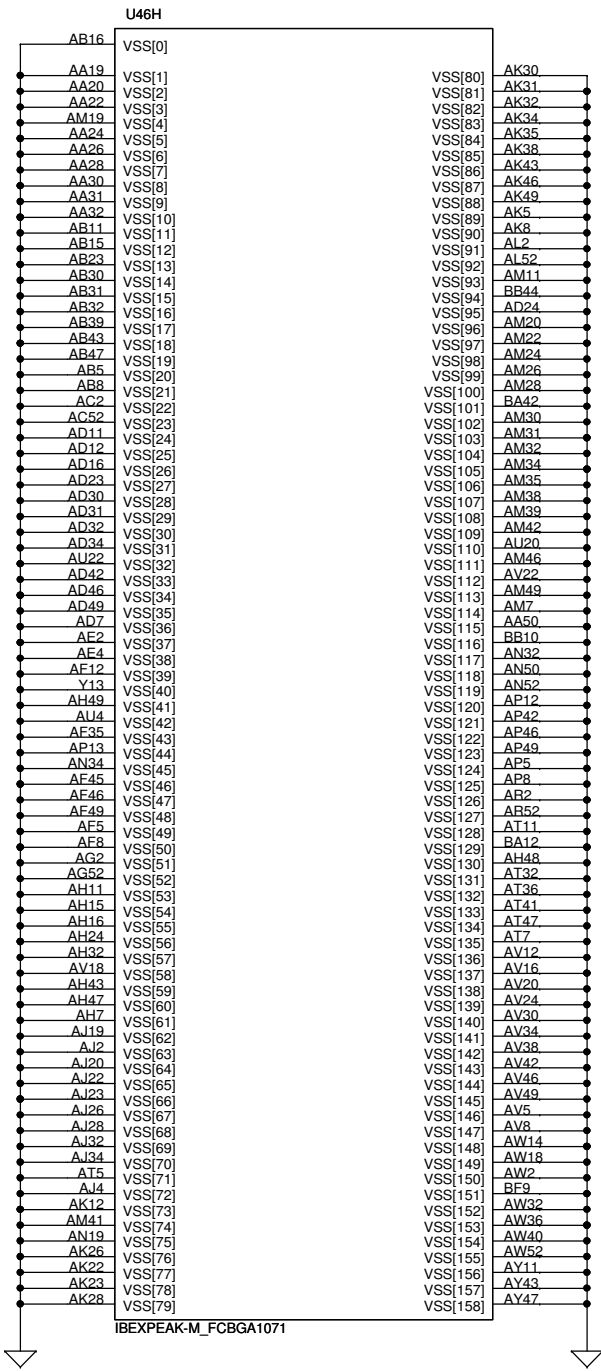
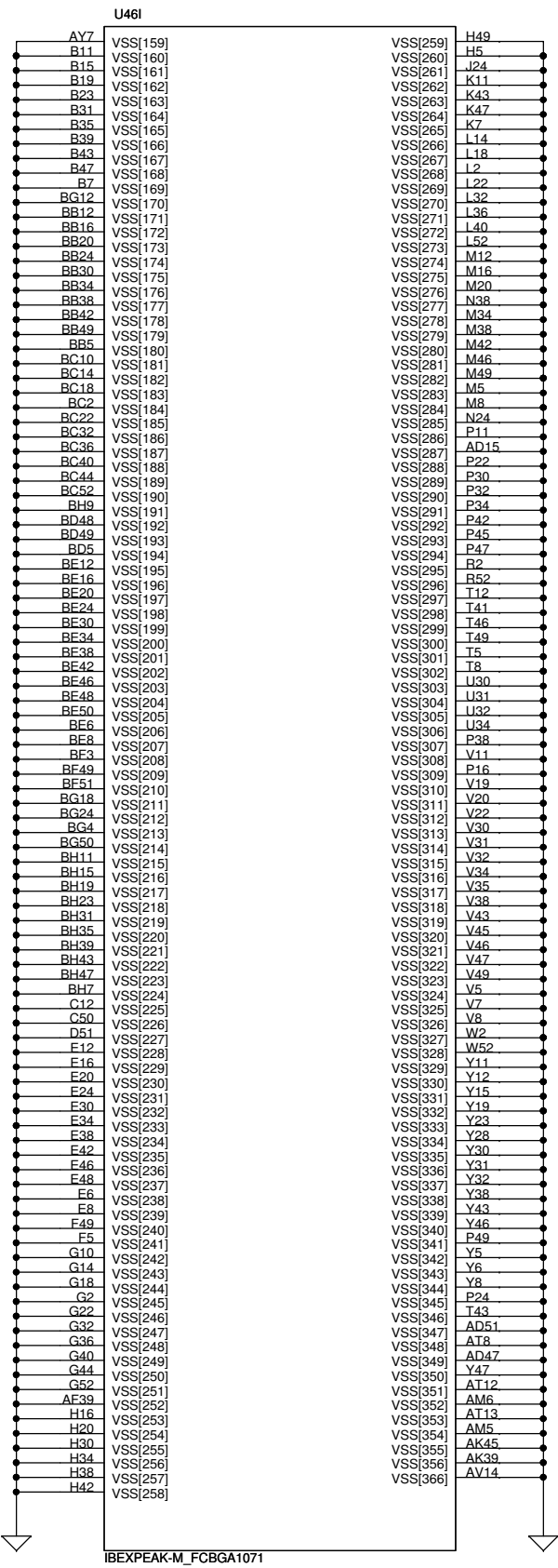


PIN 30	CPU_0	CPU_1
0 (Default)	133MHz	133MHz
1	100MHz	100MHz

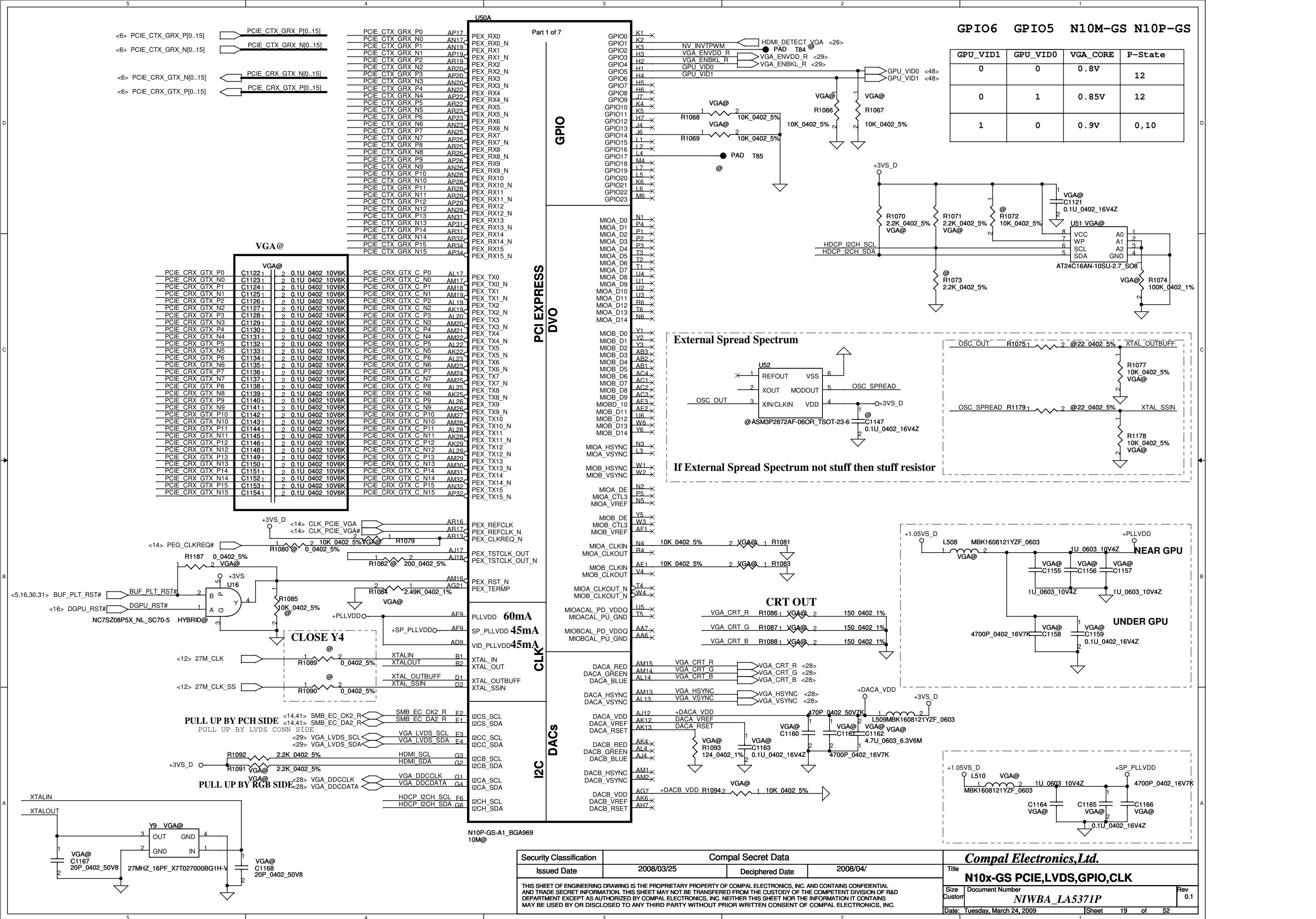


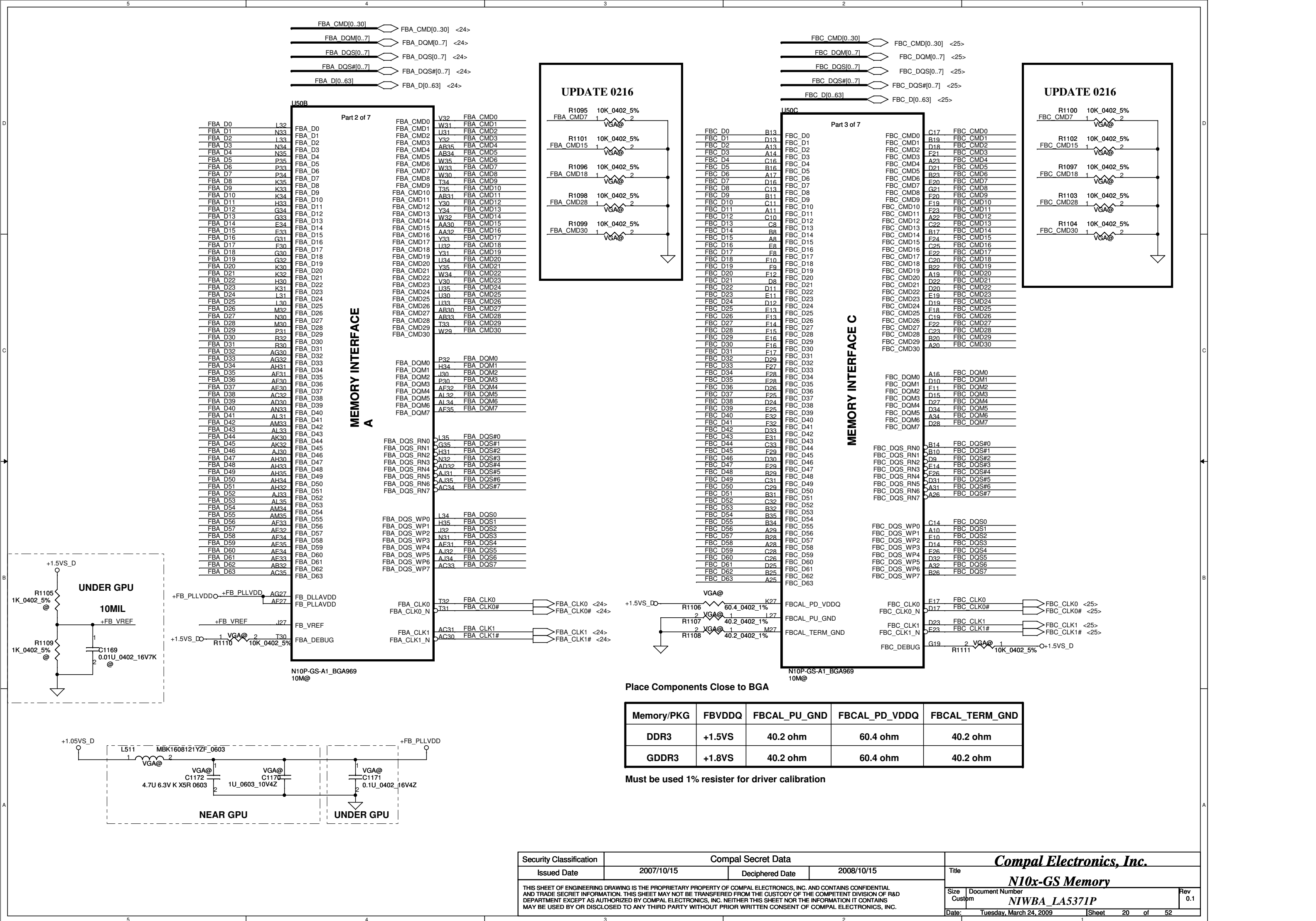


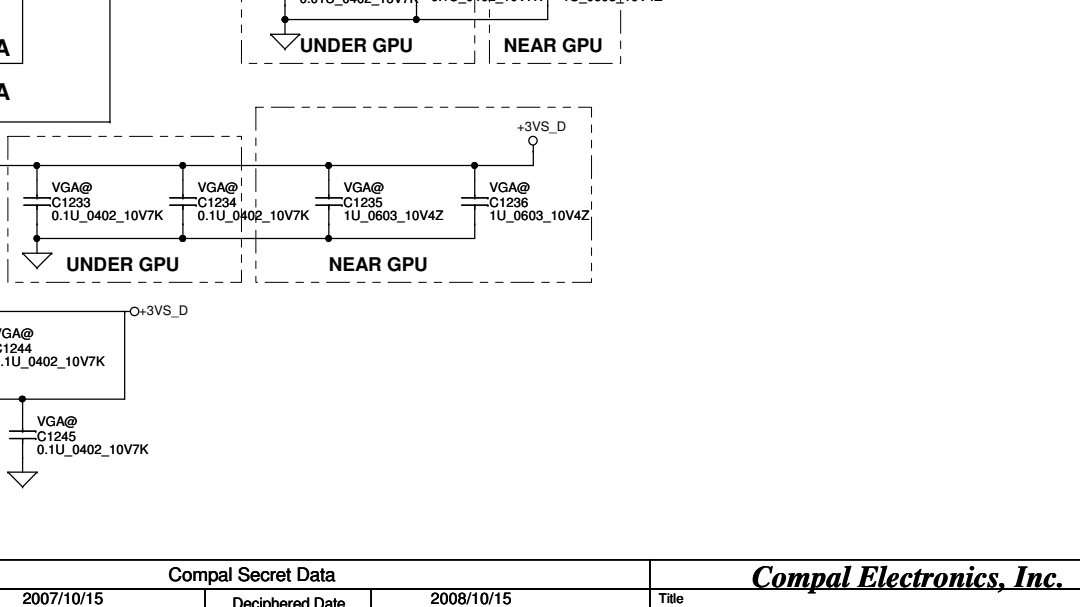
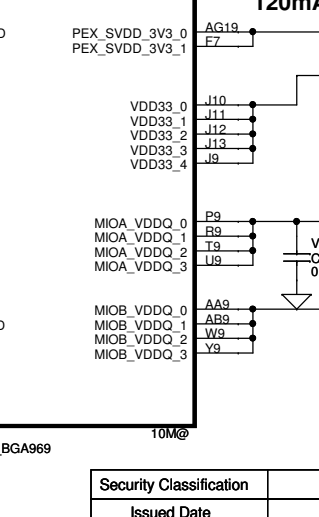
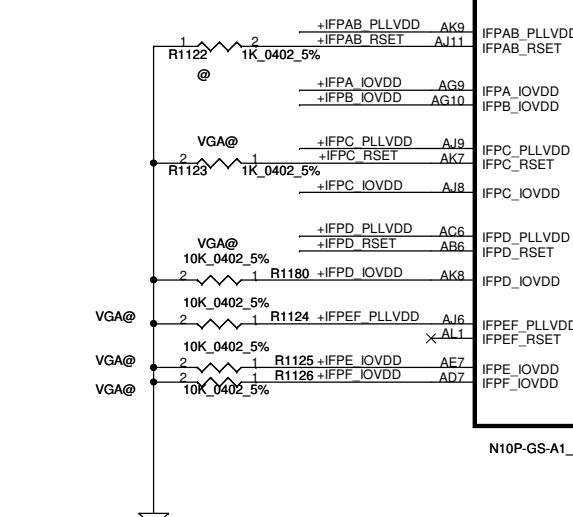
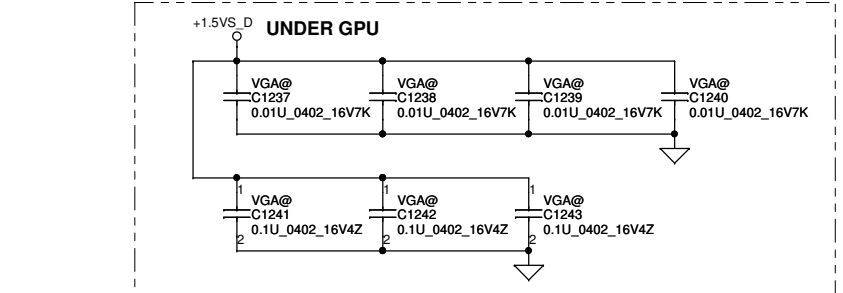
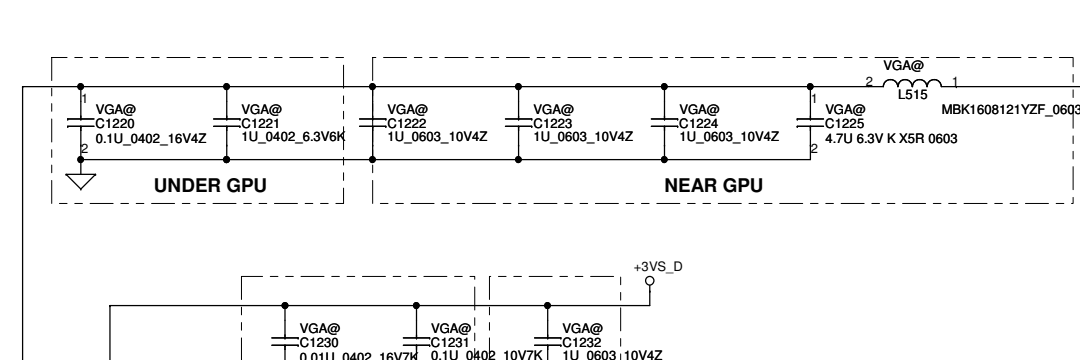
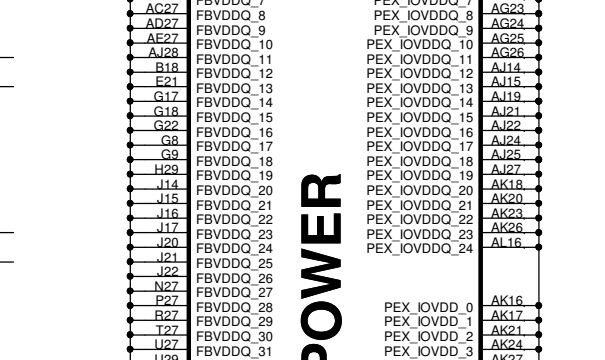
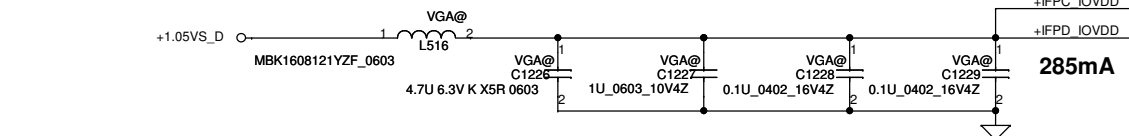
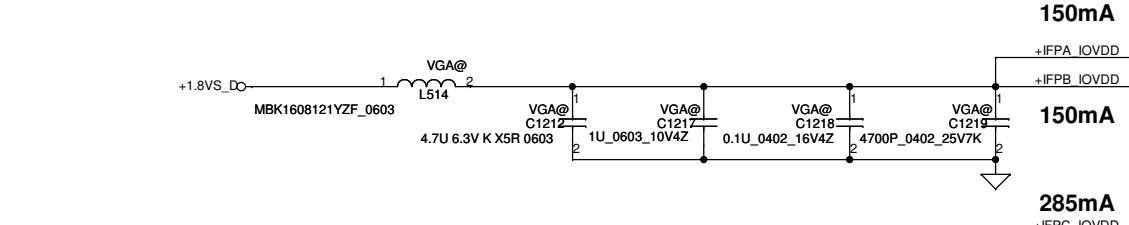
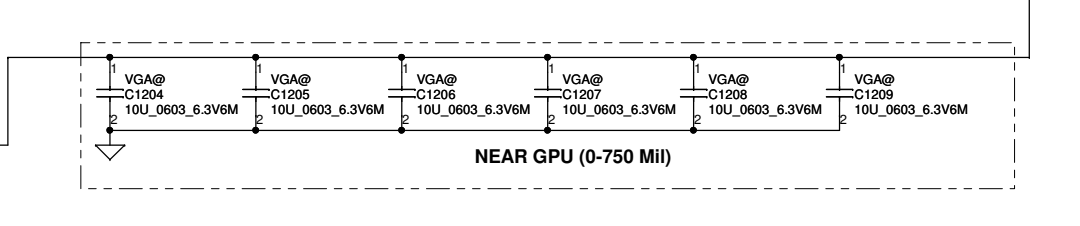
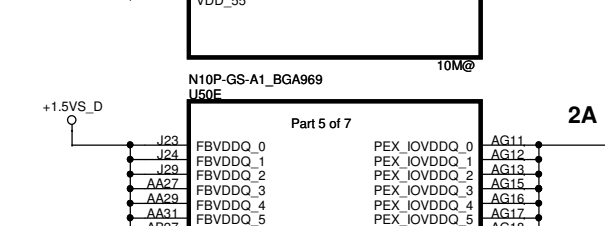
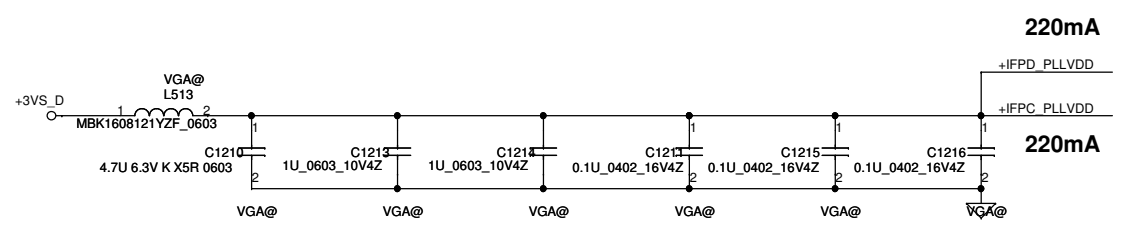
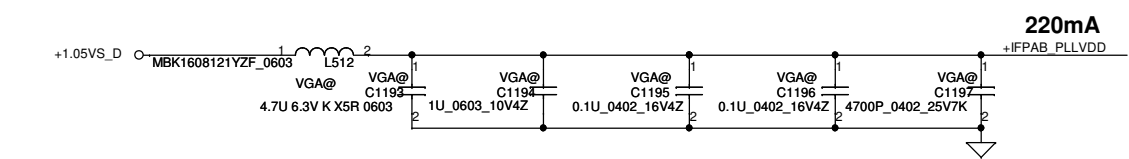
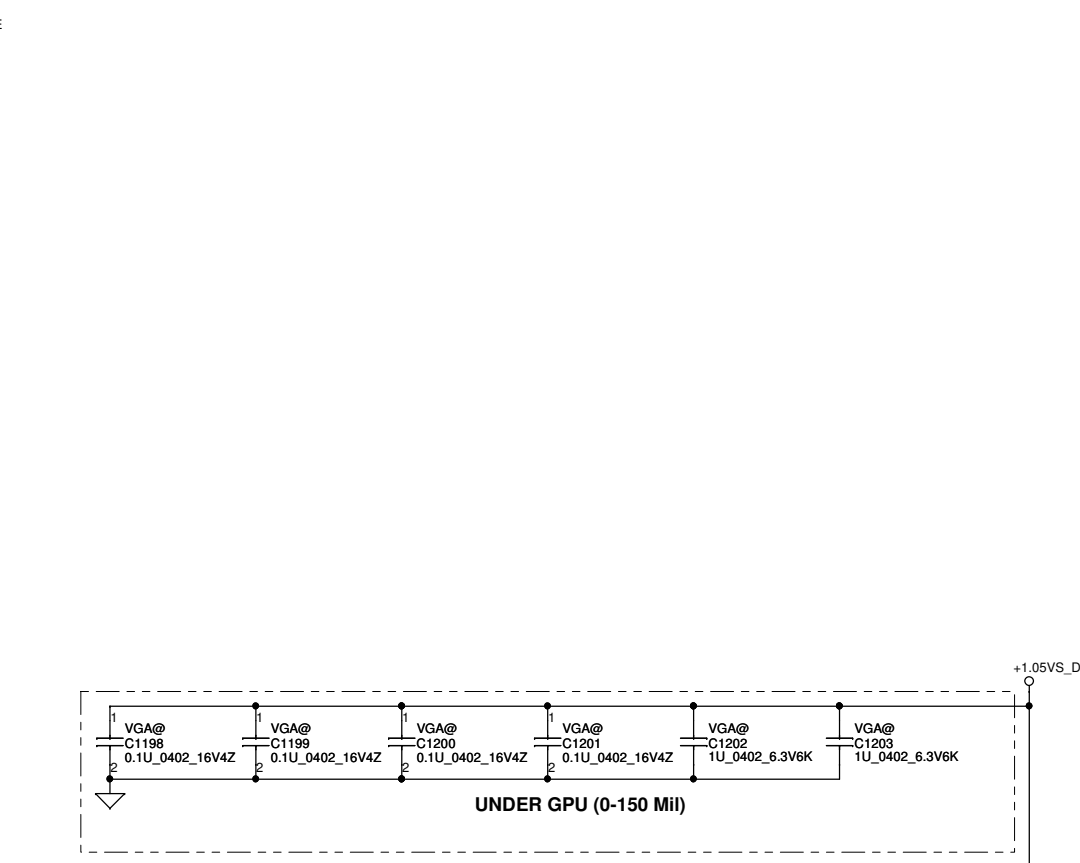
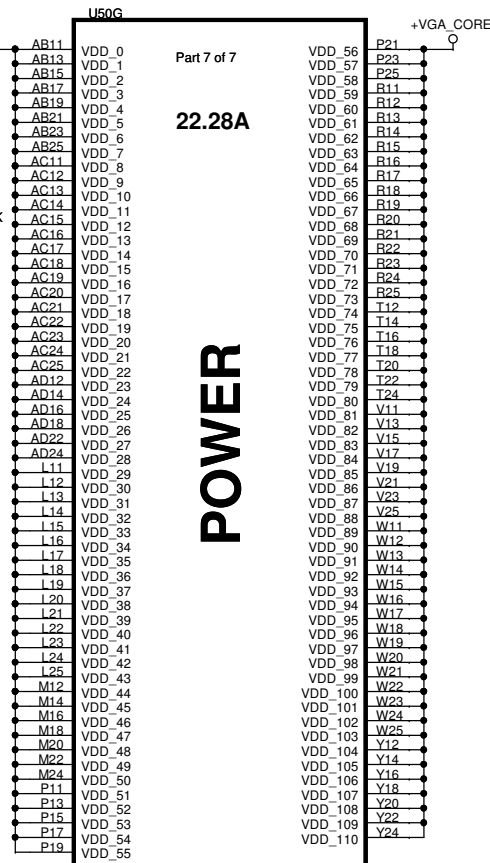
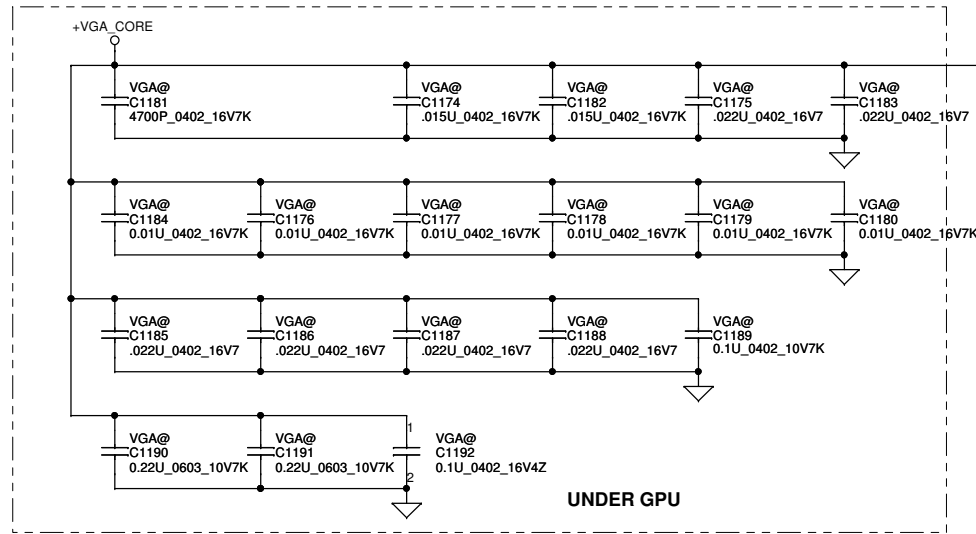




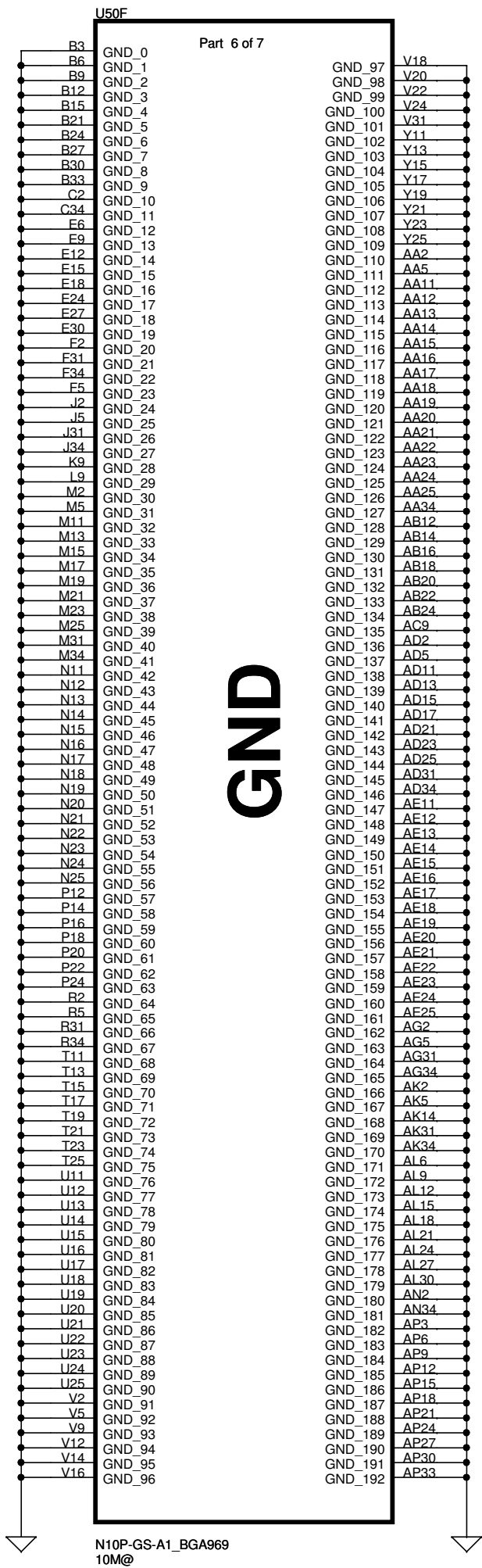
Security Classification	Compal Secret Data			Compal Electronics, Inc.		
Issued Date	2008/10/31	Deciphered Date	2009/10/31	Title IBEX-M(6/6)-GND		
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				Date:	Tuesday, March 24, 2009	Sheet 18 of 52



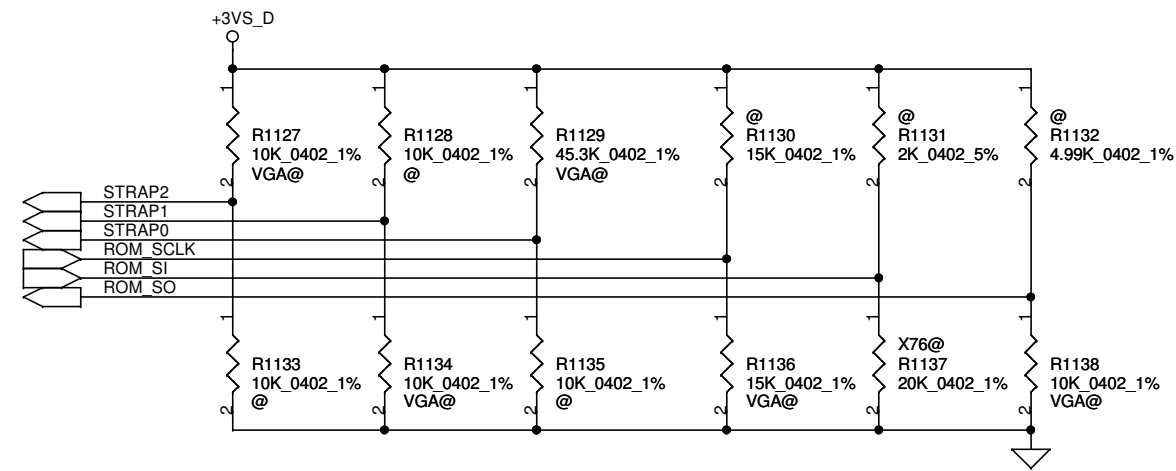
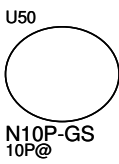
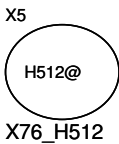
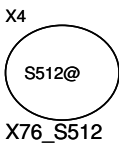
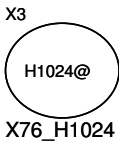
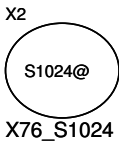




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Issued Date		2007/10/15		Deciphered Date	
2007/10/15		2008/10/15		Title	
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Size	C	Document Number	NIWBA_LA5371P		Rev
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		52			



<21> STRAP2
<21> STRAP1
<21> STRAP0
<21> ROM_SCLK
<21> ROM_SI
<21> ROM_SO



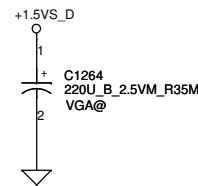
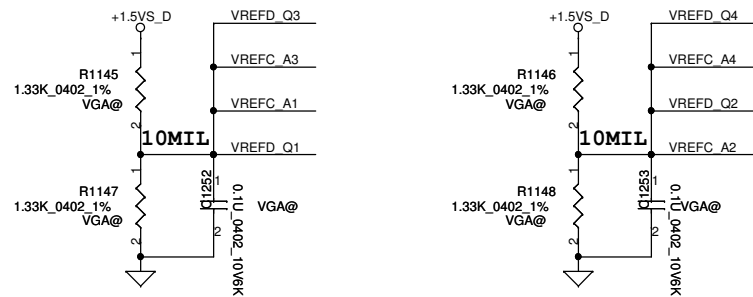
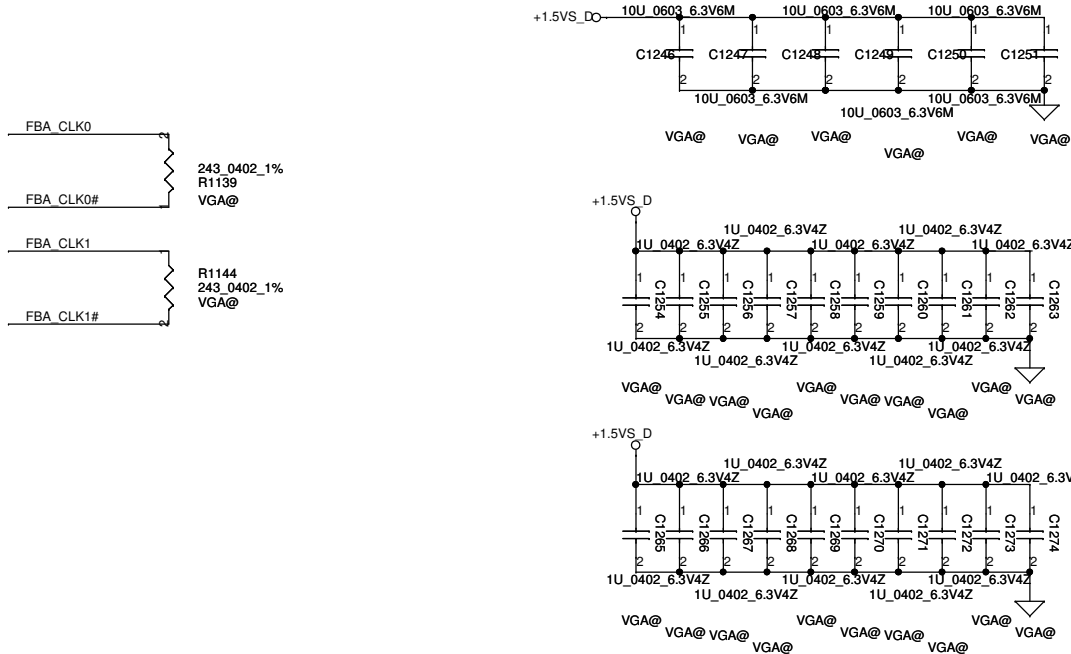
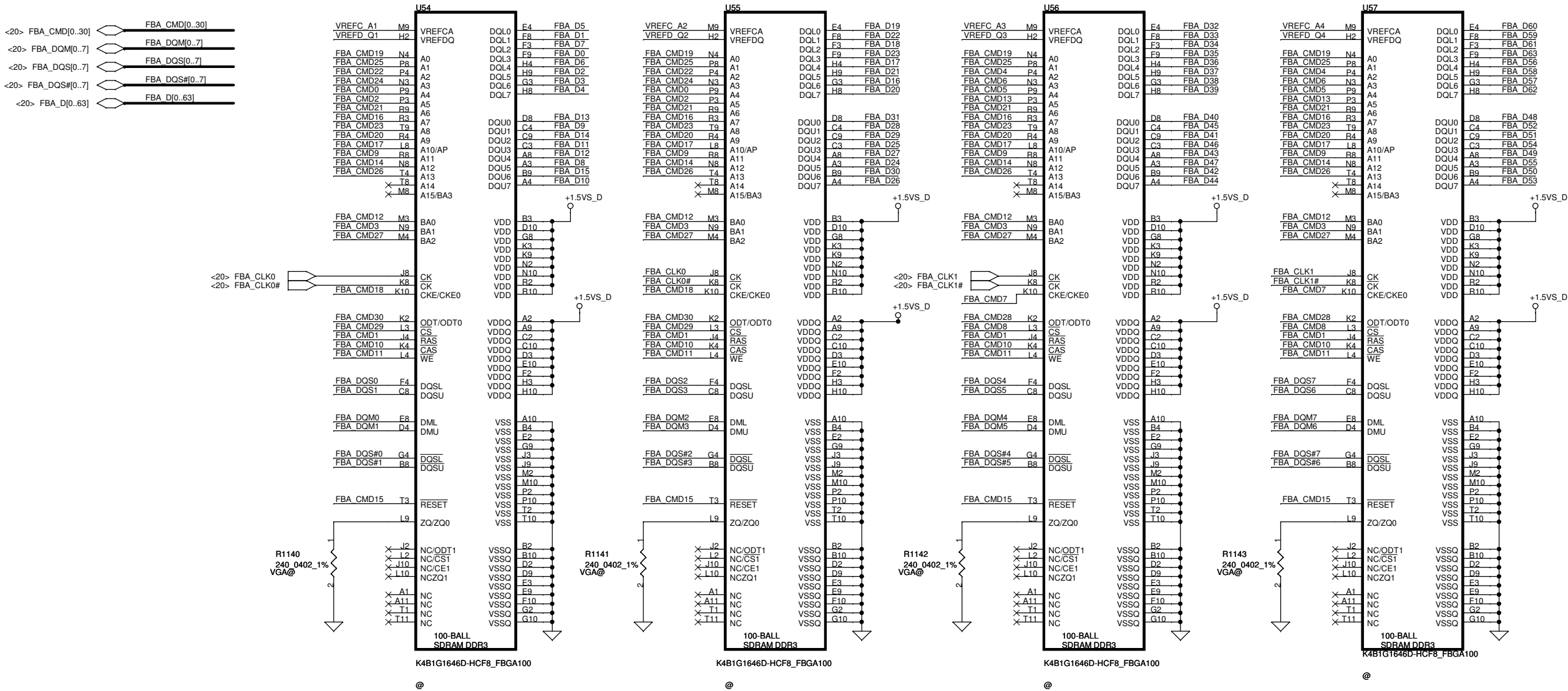
GB1 Family GPU Strap Options

		GPU DEVID	RAM_CFG	GPU DEVID				
GPU	FB Memory	ROM_SO	ROM_SCLK	ROM_SI	STRAP2	STRAP1	STRAP0	
N10P-GS (0xA34)	Samsung	64Mx16	PD 10K	PD 15K	PD 20K	PU 10K	PD 10K	PU 45K
	Hynix	64Mx16	PD 10K	PD 15K	PD 15K	PU 10K	PD 10K	PU 45K

GPU	FB Memory	ROM_SO	ROM_SCLK	ROM_SI	STRAP2	STRAP1	STRAP0	
N10M-GS (0xA74)	Samsung	64Mx16	PD 10K	PD 15K	PD 20K	PU 10K	PD 10K	PU 45K
	Hynix	64Mx16	PD 10K	PD 15K	PD 15K	PU 10K	PD 10K	PU 45K

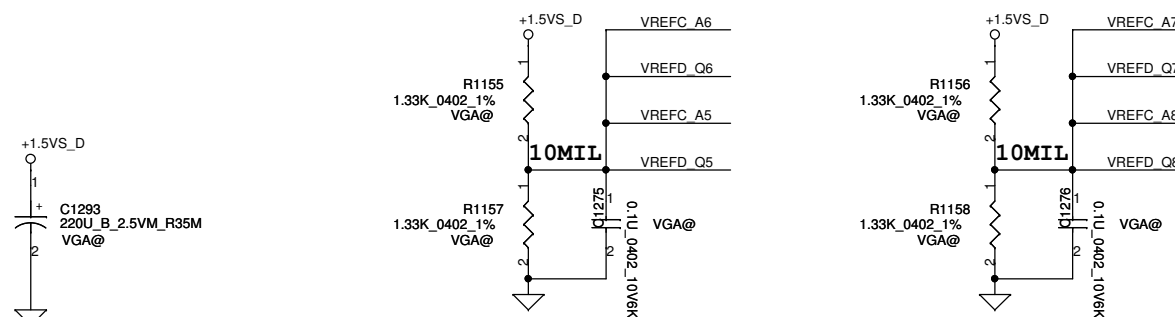
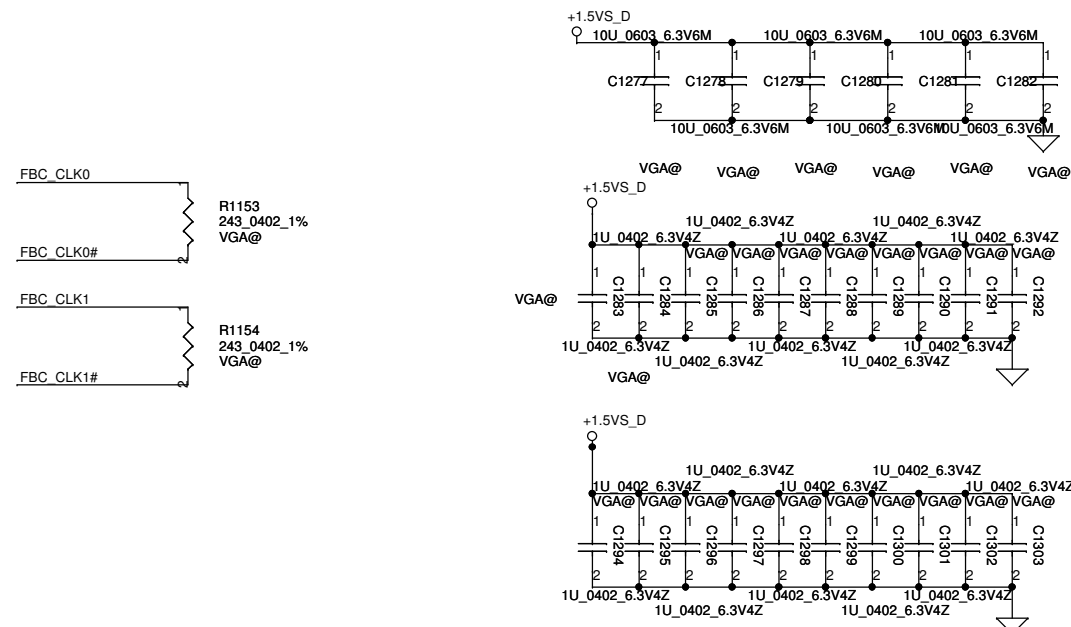
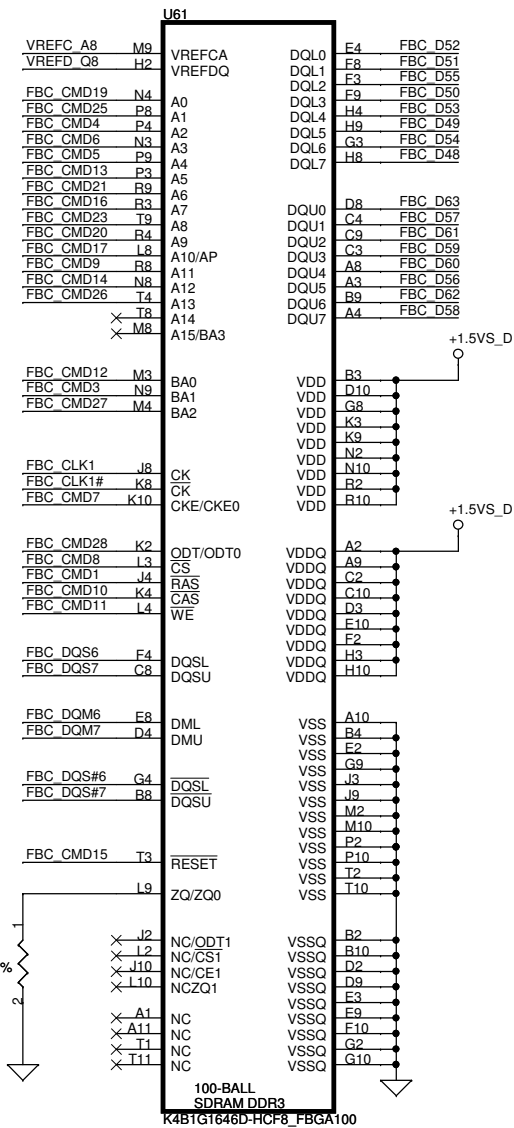
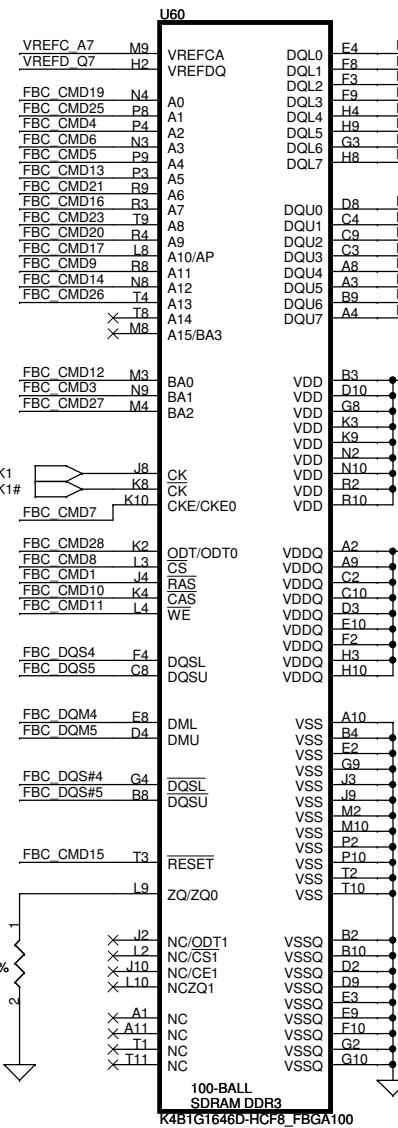
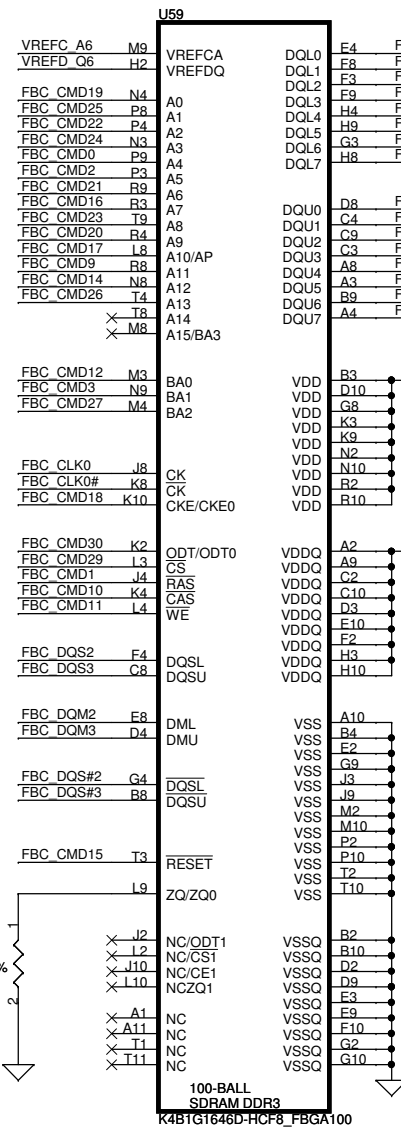
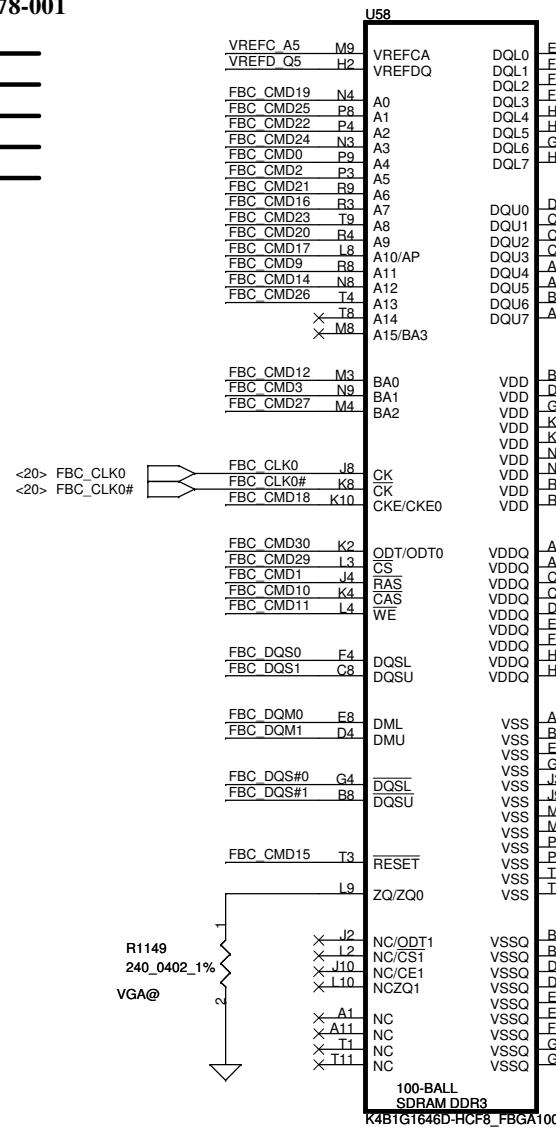
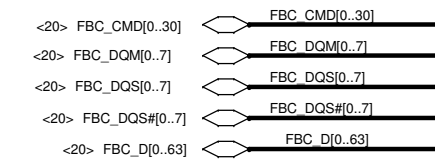
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Issued Date	2008/03/25	Deciphered Date	2008/04/	Title N10x-GS GND & STRAP	
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				Date: Tuesday, March 24, 2009	Rev 0.1
		Sheet	23	of	52

N10x 40nm DDR3 MAPPING
NVIDIA DOCUMENT FOR DA-3978-001



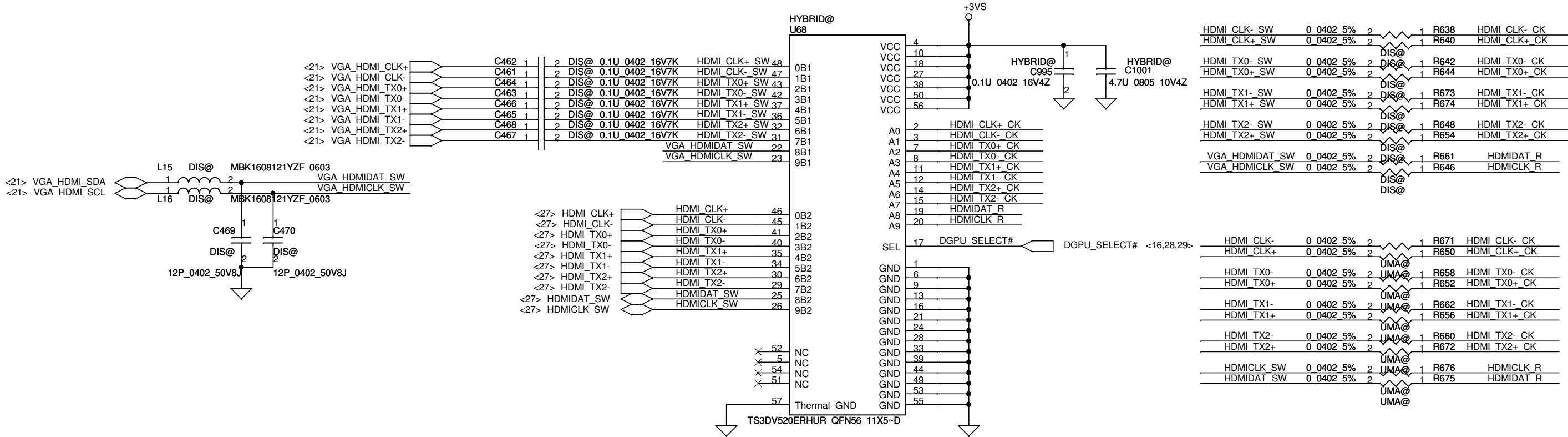
Security Classification	Compal Secret Data			Title	
Issued Date	2007/10/15	Deciphered Date	2008/10/15	VRAM DDRA	
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				Date:	Rev
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N10x 40nm DDR3 MAPPING
NVIDIA COCUMENT FOR DA-3978-001

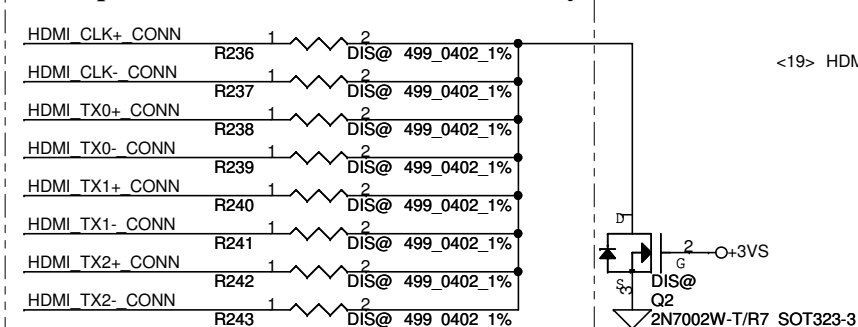


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				Custom	NIWBA_LA5371P	0.1
				Date:	Tuesday, March 24, 2009	Sheet 25 of 52

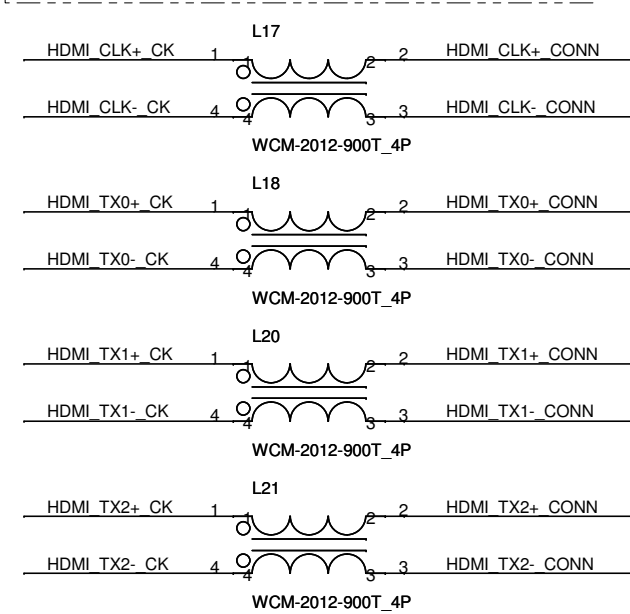
HDMI switch1



TMDS pull down (500ohm) resistors G9x only

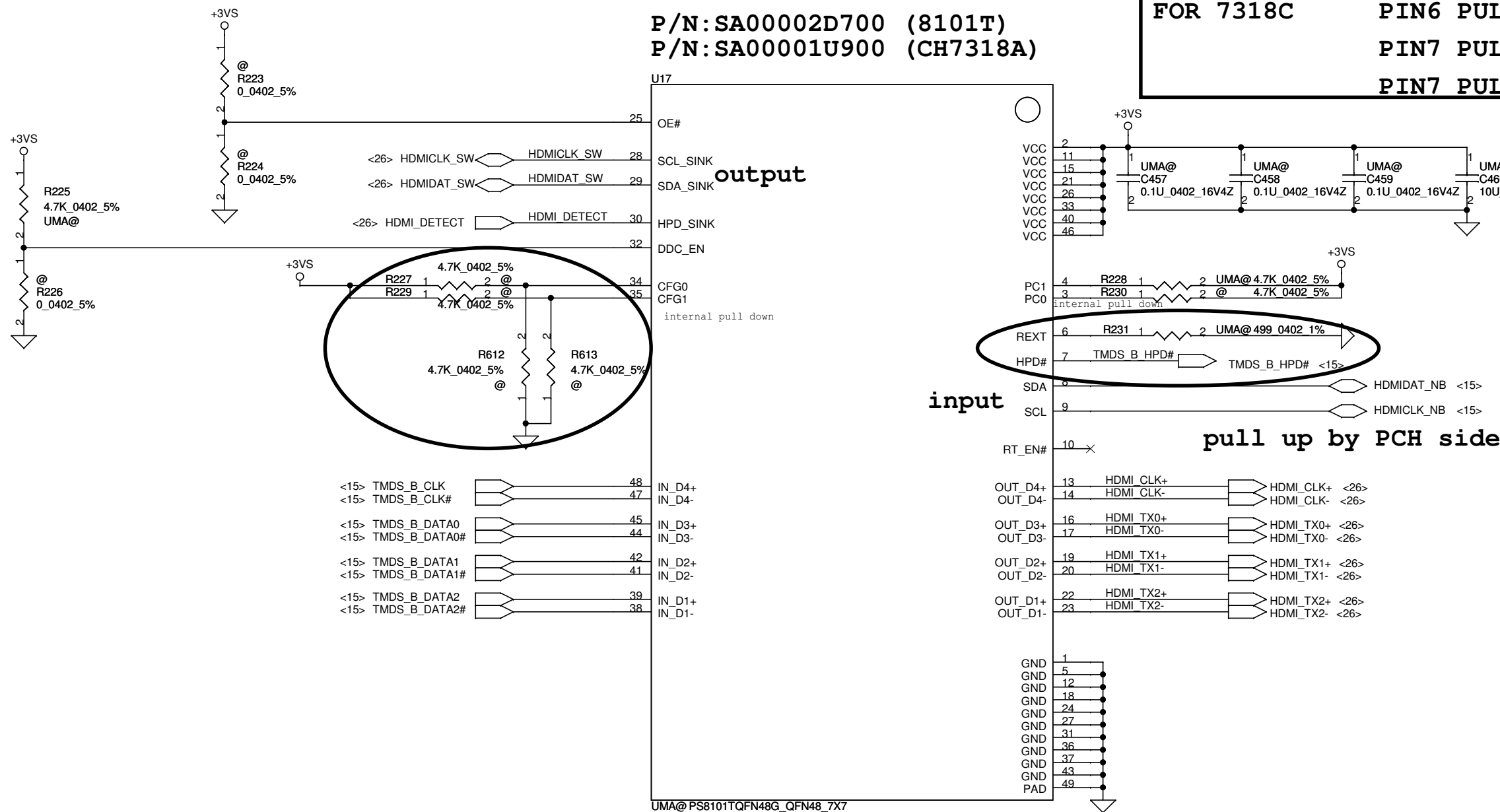


NEAR CONNECT

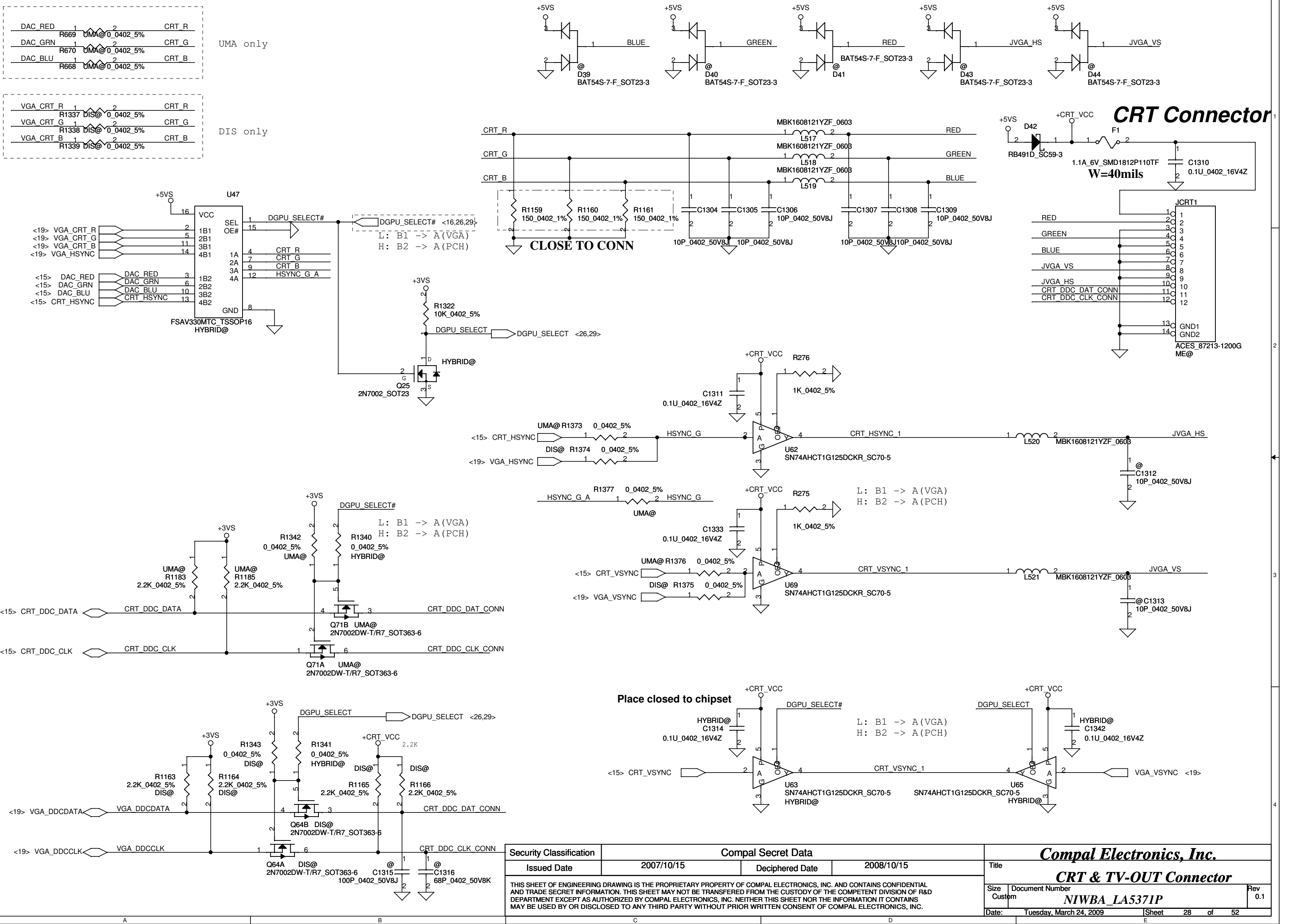


HDMI_CLK+ CK	R251	1	@	2	0	0402	5%	HDMI_CLK+ CONN
HDMI_CLK- CK	R252	1	@	2	0	0402	5%	HDMI_CLK- CONN
HDMI_TX0+ CK	R253	1	@	2	0	0402	5%	HDMI_TX0+ CONN
HDMI_TX0- CK	R254	1	@	2	0	0402	5%	HDMI_TX0- CONN
HDMI_TX1+ CK	R255	1	@	2	0	0402	5%	HDMI_TX1+ CONN
HDMI_TX1- CK	R256	1	@	2	0	0402	5%	HDMI_TX1- CONN
HDMI_TX2+ CK	R257	1	@	2	0	0402	5%	HDMI_TX2+ CONN
HDMI_TX2- CK	R258	1	@	2	0	0402	5%	HDMI_TX2- CONN

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Date: Tuesday, March 24, 2009		Sheet		26 of 52	

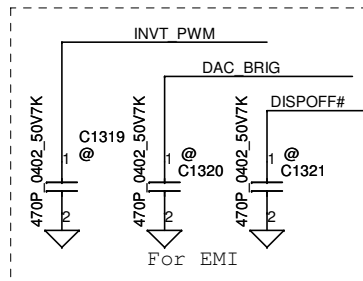
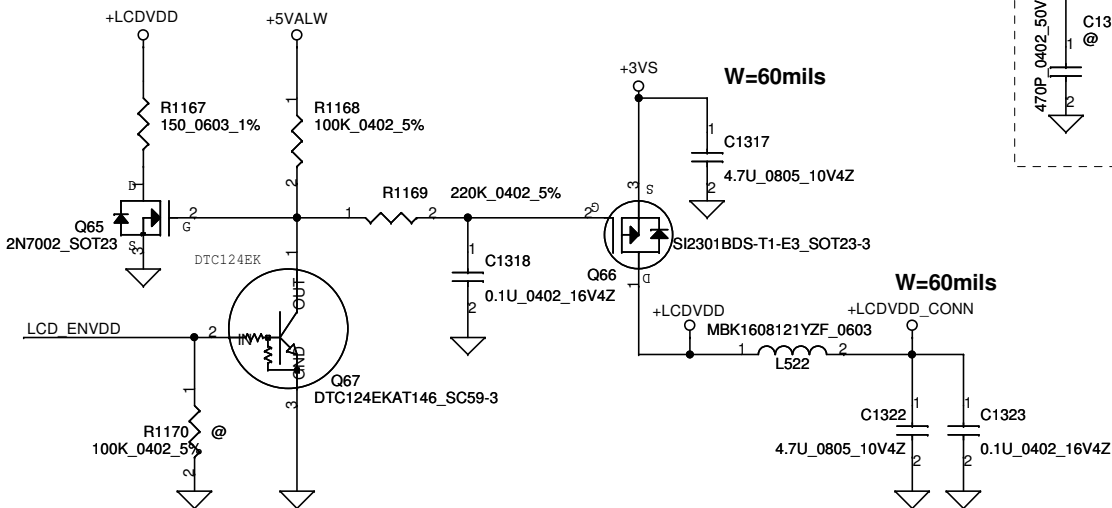


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				Size	Rev
				Custom	0.1
Date: Tuesday, March 24, 2009				Sheet	27 of 52

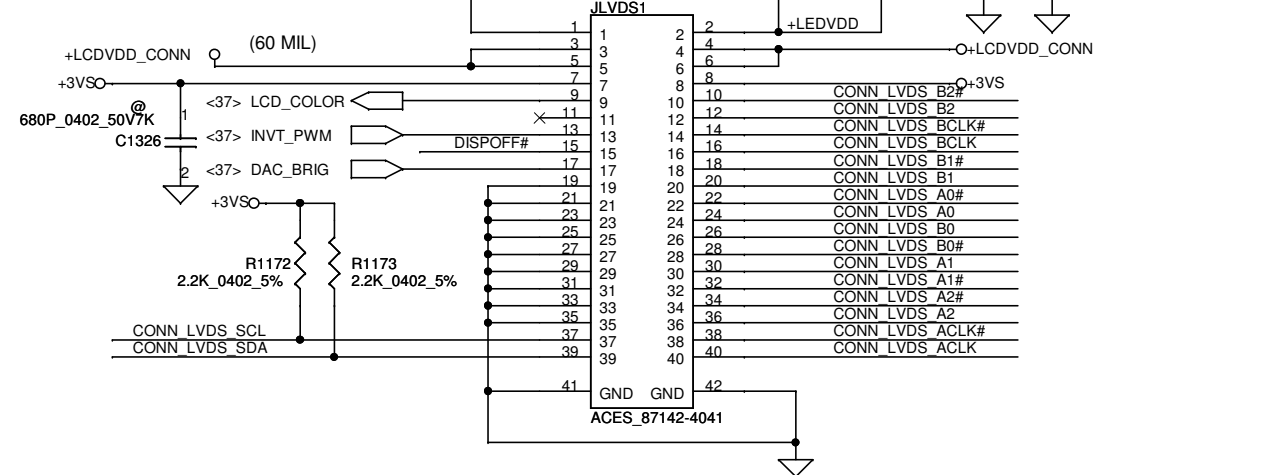


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Size	Custom	Document Number	NIWBA_LA5371P	Rev	
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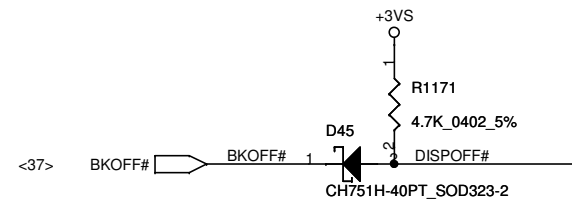
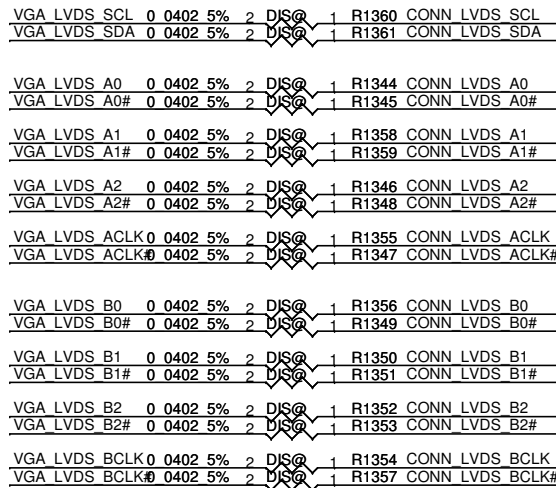
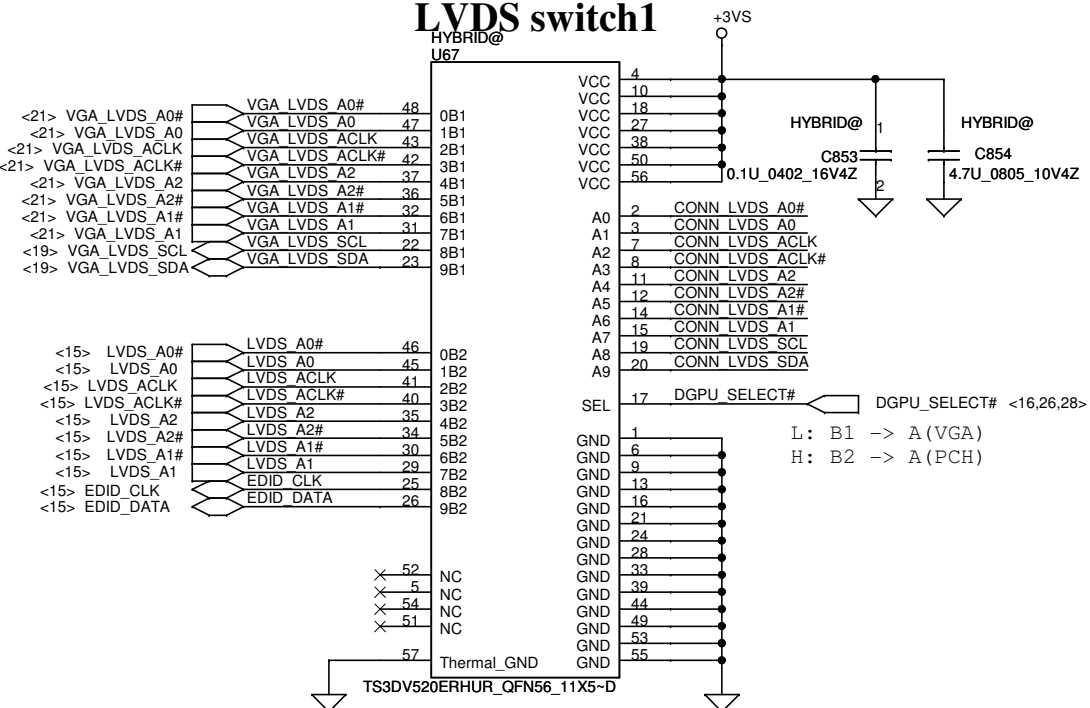
LCD POWER CIRCUIT



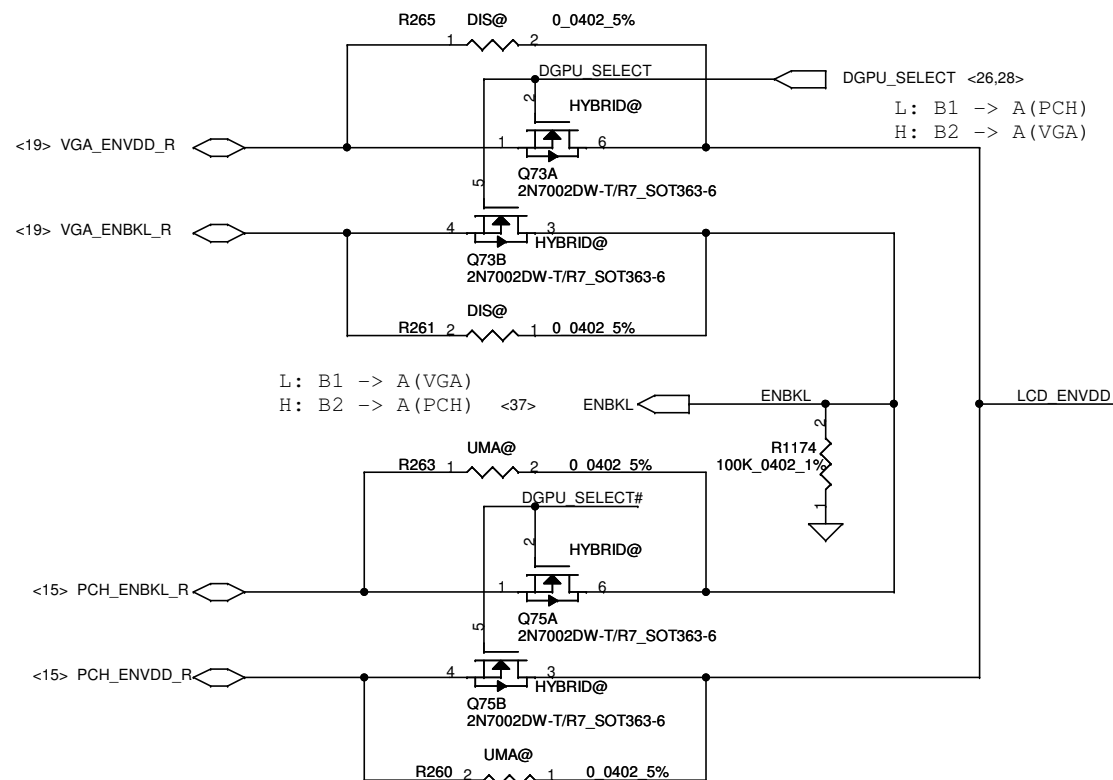
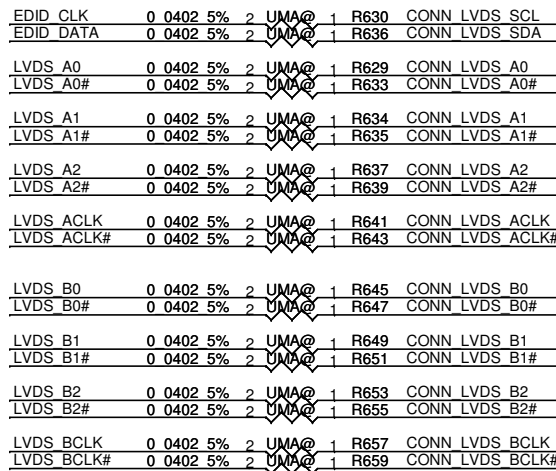
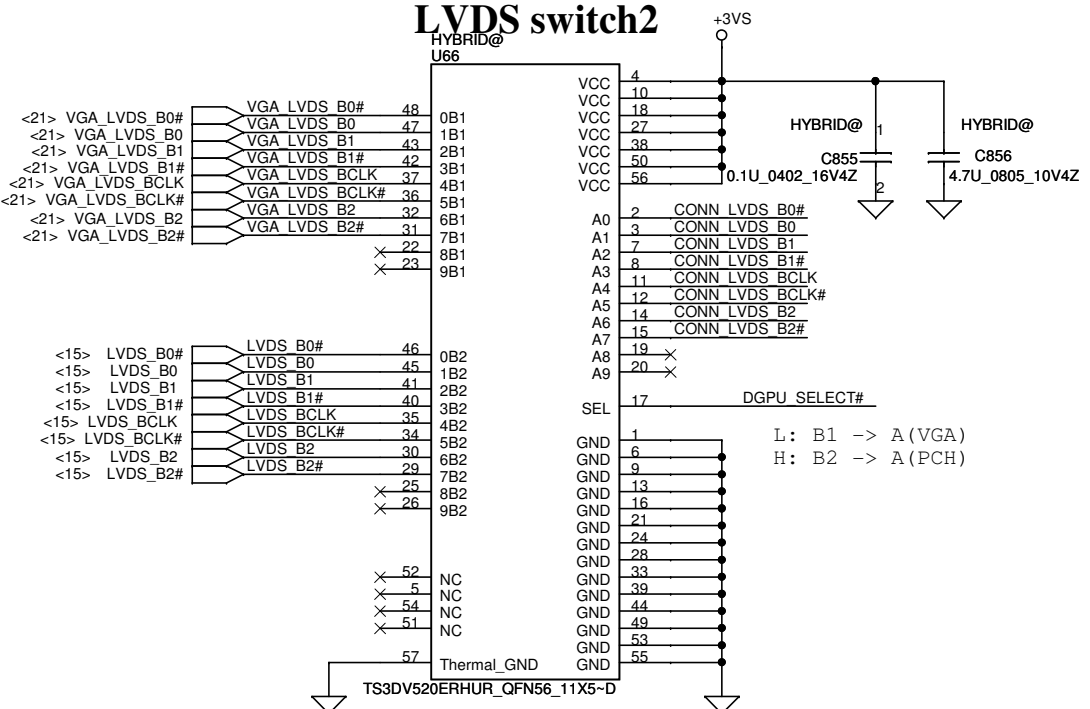
VGA LCD/PANEL BD. Conn.



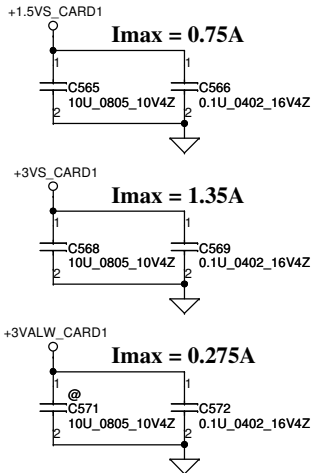
LVDS switch1



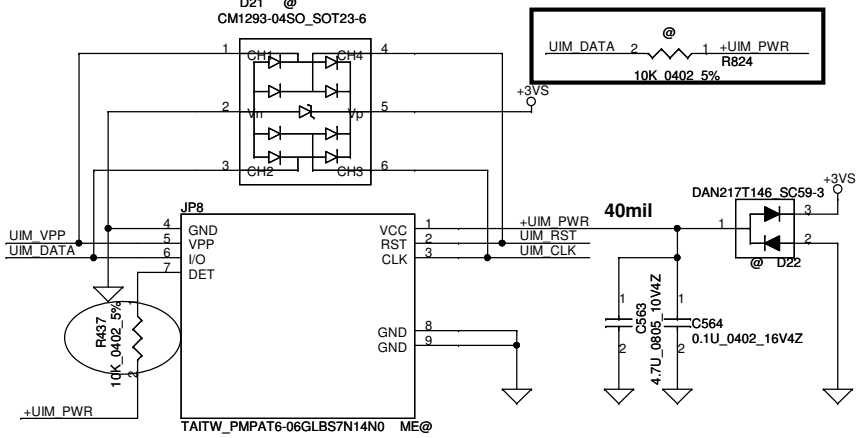
LVDS switch2



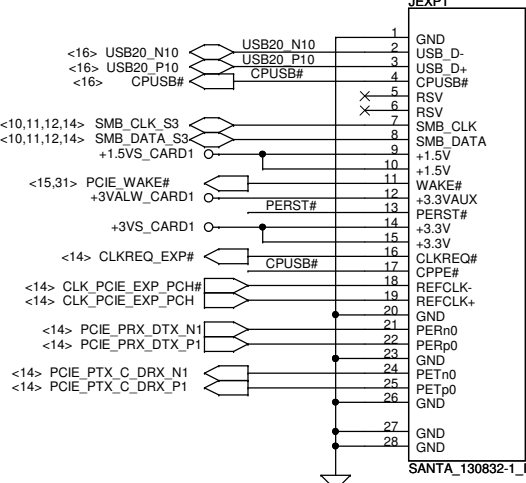
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Issued Date	2007/10/15	Deciphered Date	2008/10/15	Title	
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				Rev	0.1
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Mini-Express Card(Slot 1-TV TUNNER) 4.0mm high

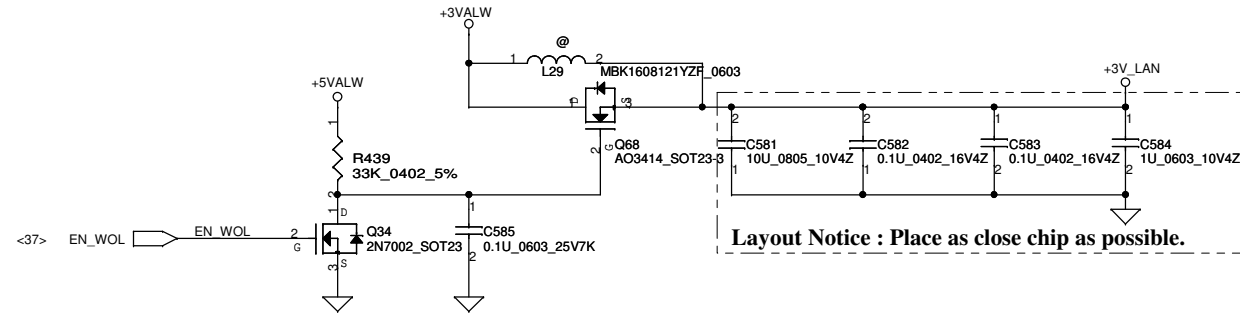
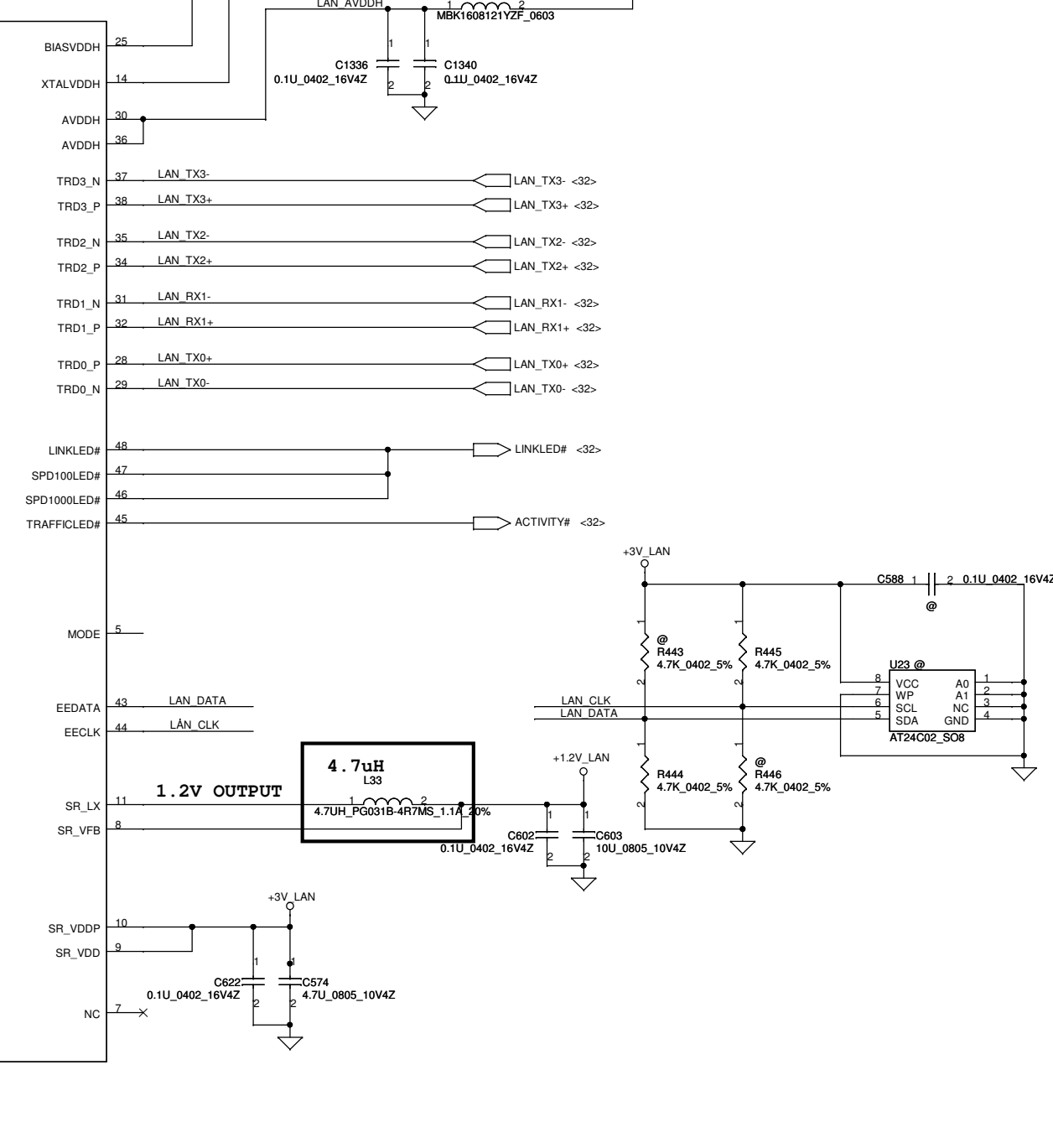
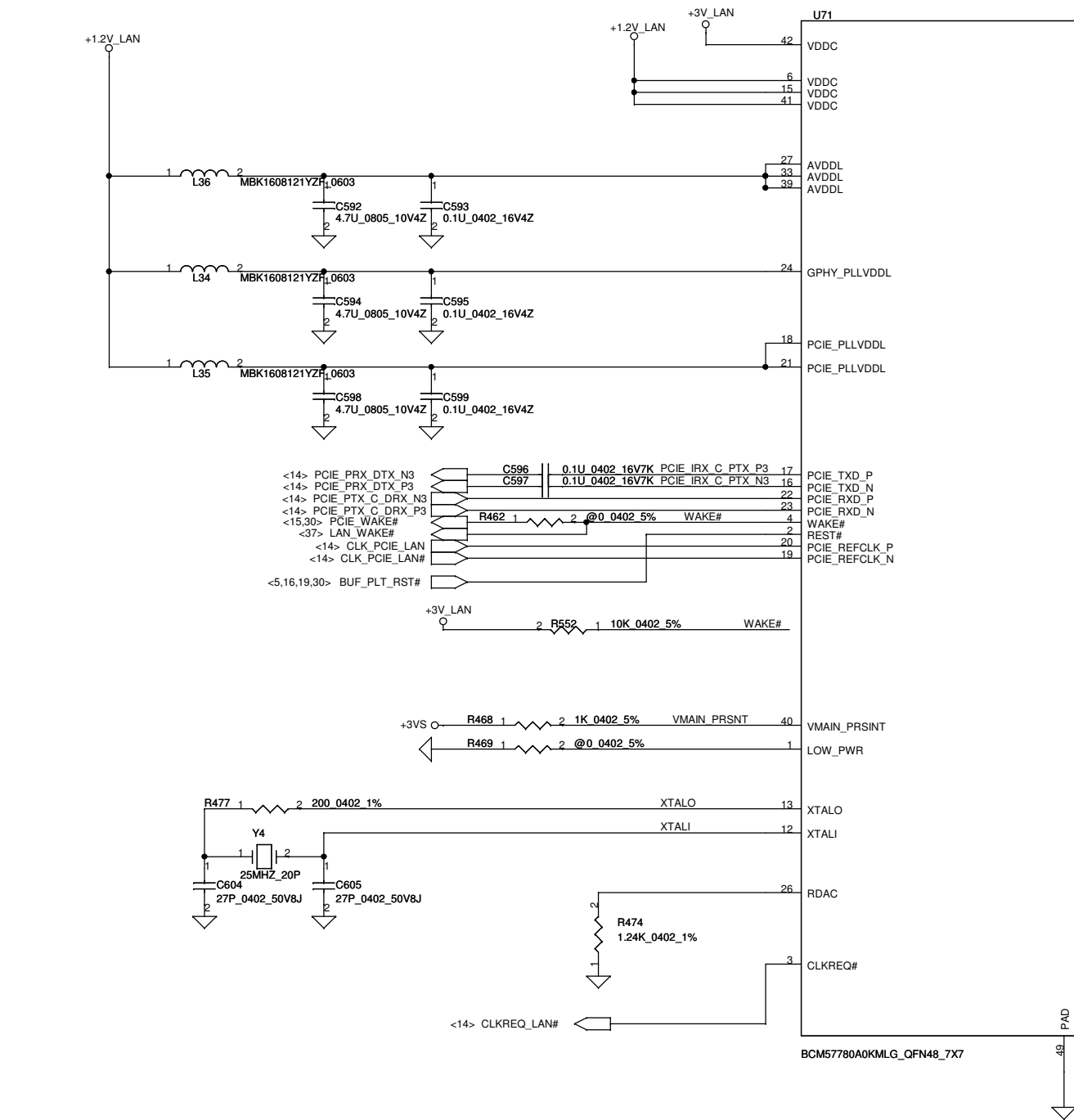
5.6mm high



New Card 34mm Socket (Left/TOP)

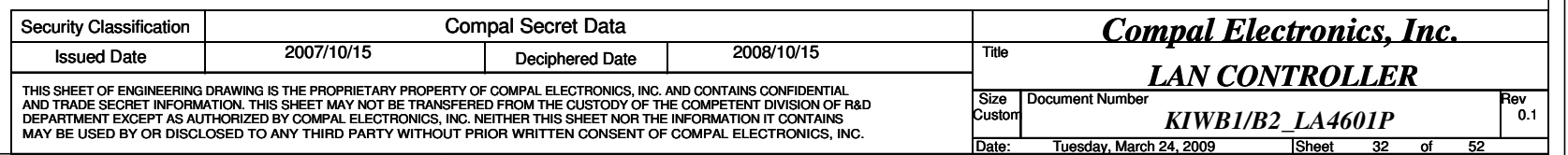


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Issued Date	2007/10/15	Deciphered Date	2008/10/15	Title	Mini-Card/3G/FeliCa/BT		
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				NIWBA_LAS371P			0.1
				Date:	Tuesday, March 24, 2009	Sheet	30 of 52

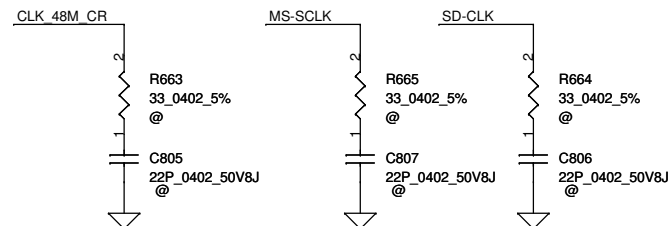
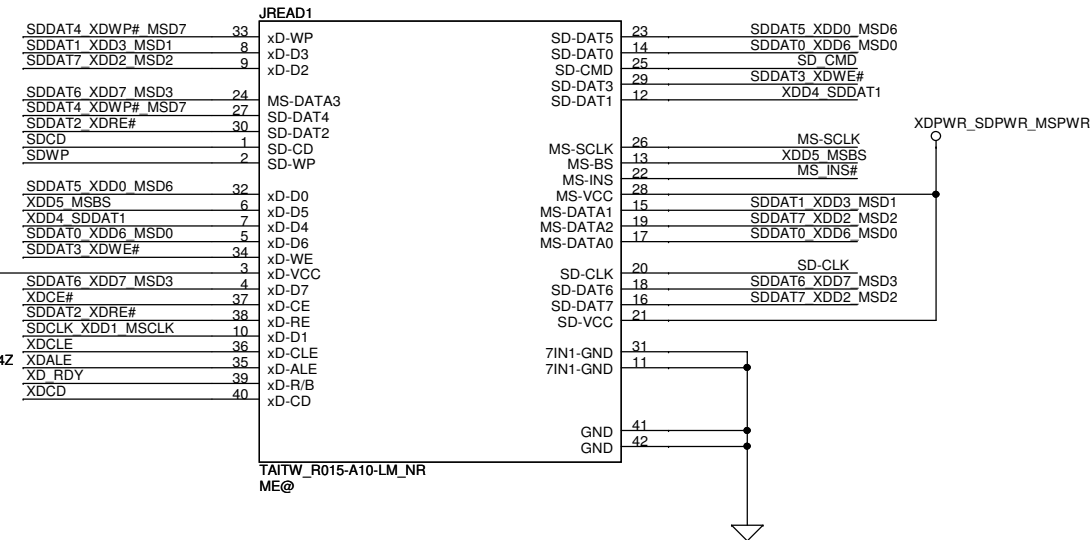
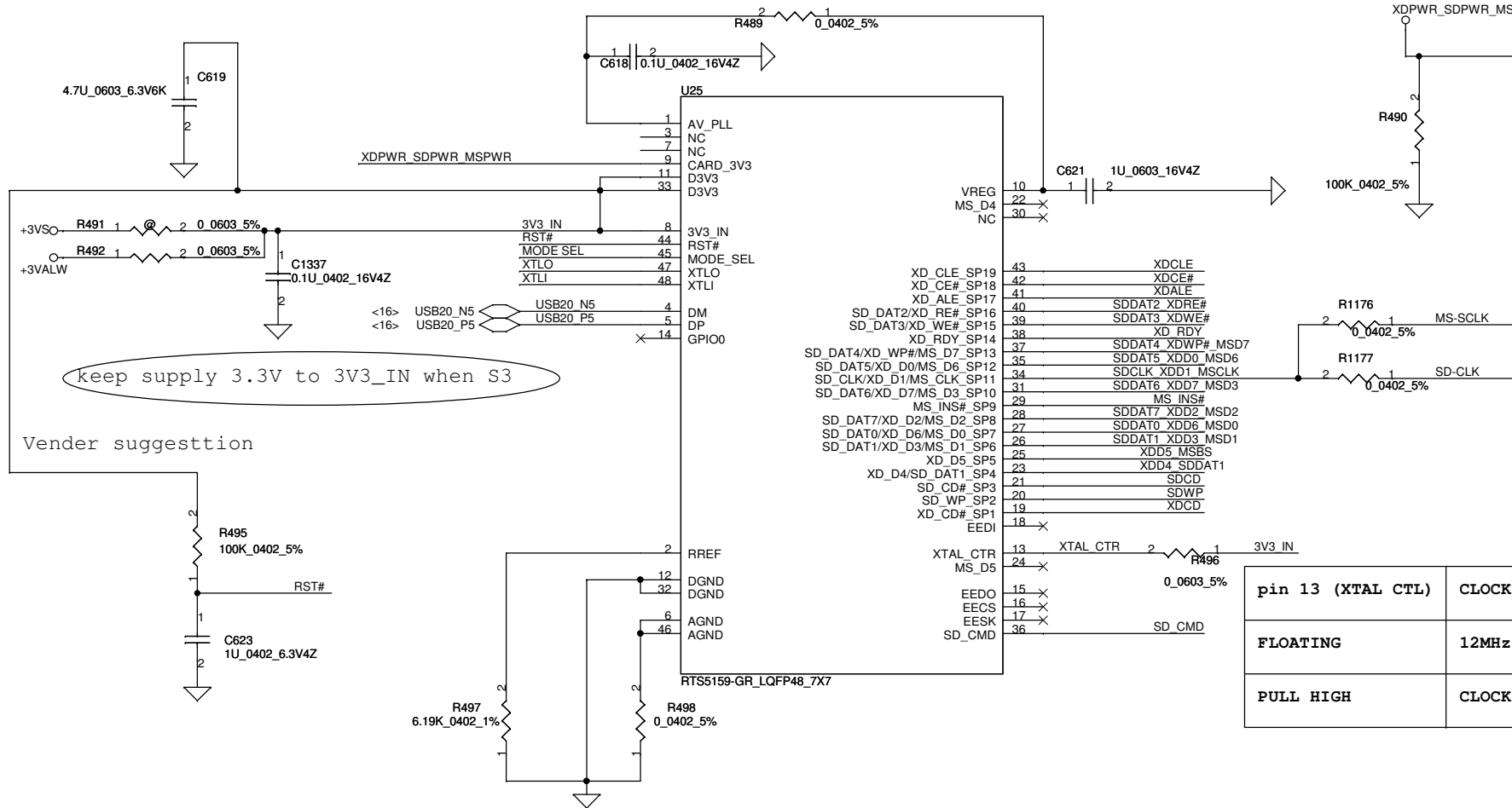


Layout Notice : Place as close chip as possible.

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2008/03/25		2008/04/		Title	
Broadcom LAN 57780/57790		Document Number		NIWBA_LA5371P	
Size		Rev		0.1	
Date: Tuesday, March 24, 2009		Sheet		31 of 52	

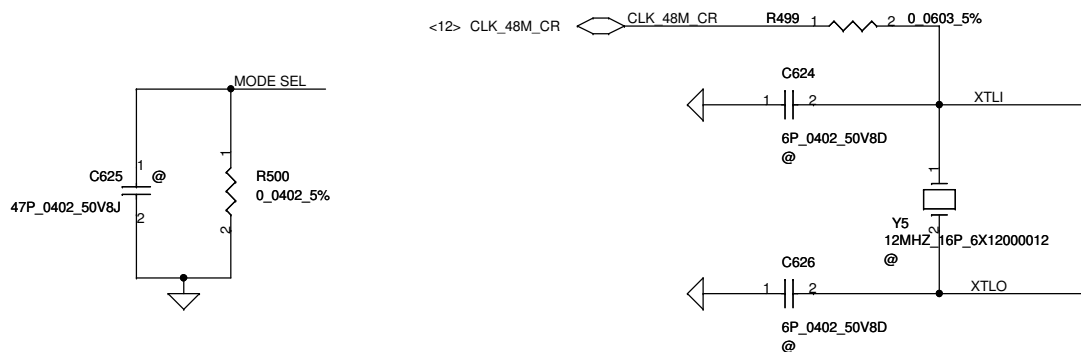


0513 : CARD_3V3 旁路電阻 100K change to 4.7u CAP==>預留
0521 : change C79 form 4.7u to 0.1u, add R47 100K ohm,
change C526 form 1u to 4.7u

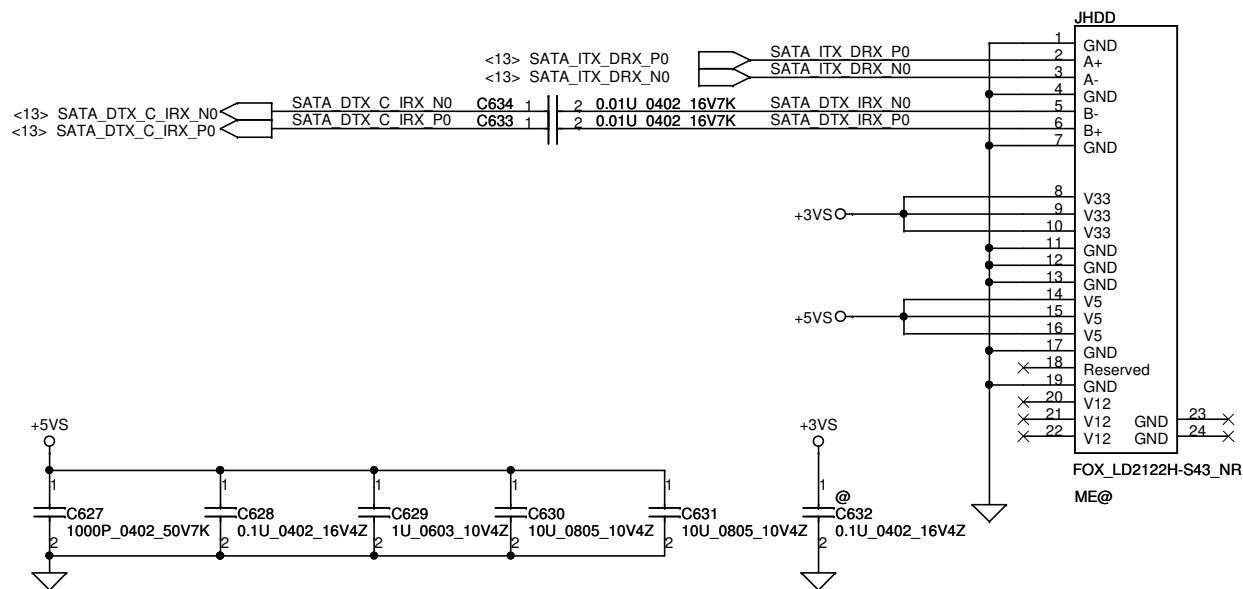


pin 13 (XTAL CTL)	CLOCK SOURCE	REMARK
FLOATING	12MHz CRYSTAL INPUT	
PULL HIGH	CLOCK GENERATOR'S 48MHZ INPUT	INPUT TO PIN48

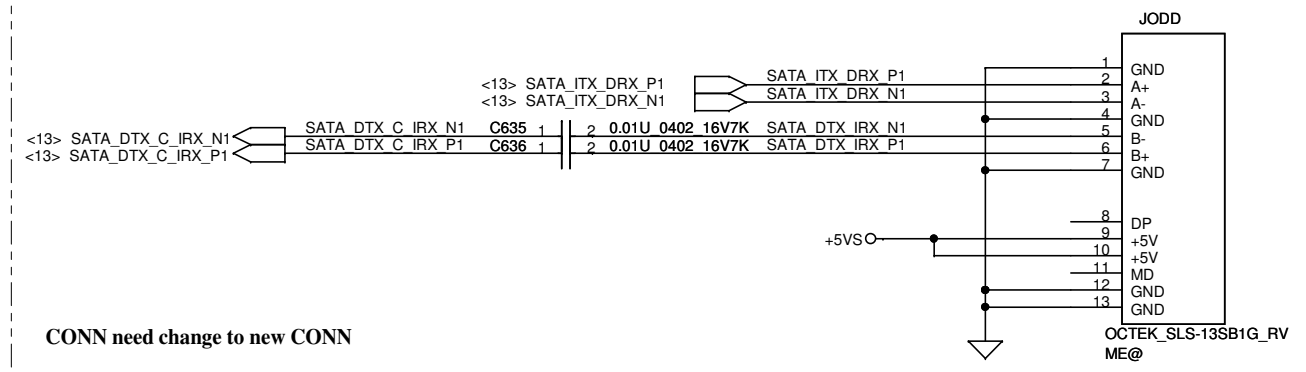
MCLK and SDCLK 該二電阻是預留給EMI solution使用, (但請靠近RTS5158E側).
將SD_DAT1 連接到RTS5158E的pin23



SATA HDD Conn.

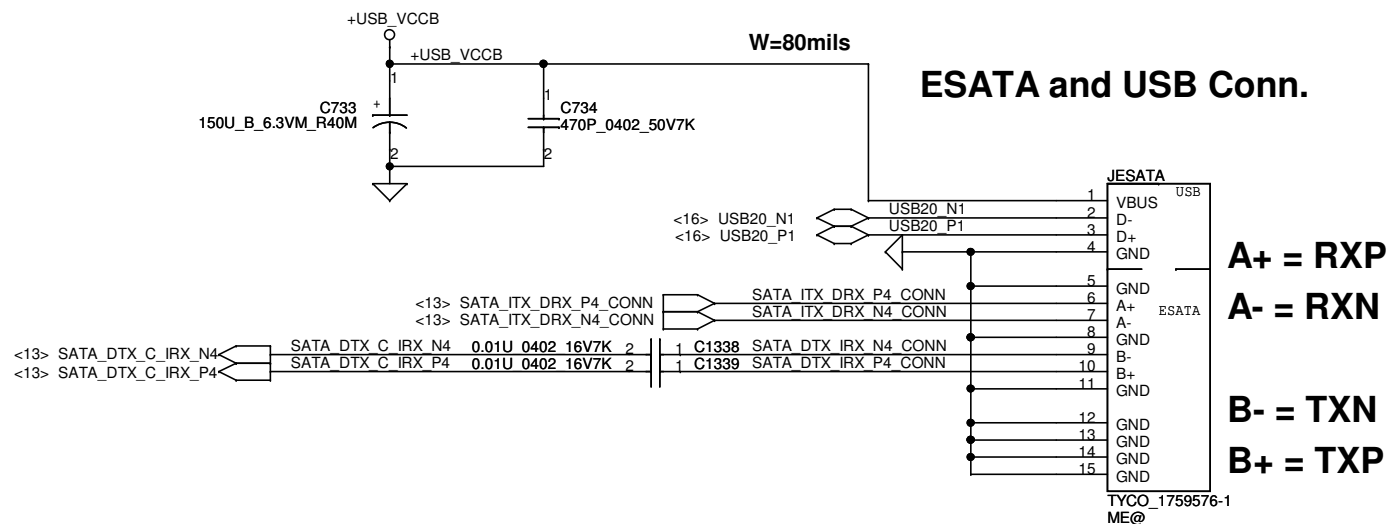


SATA ODD Conn.



CONN need change to new CONN

ESATA and USB Conn.

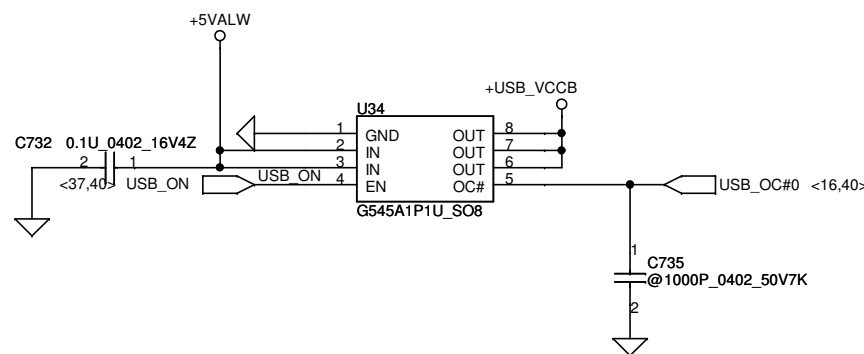


A+ = RXP

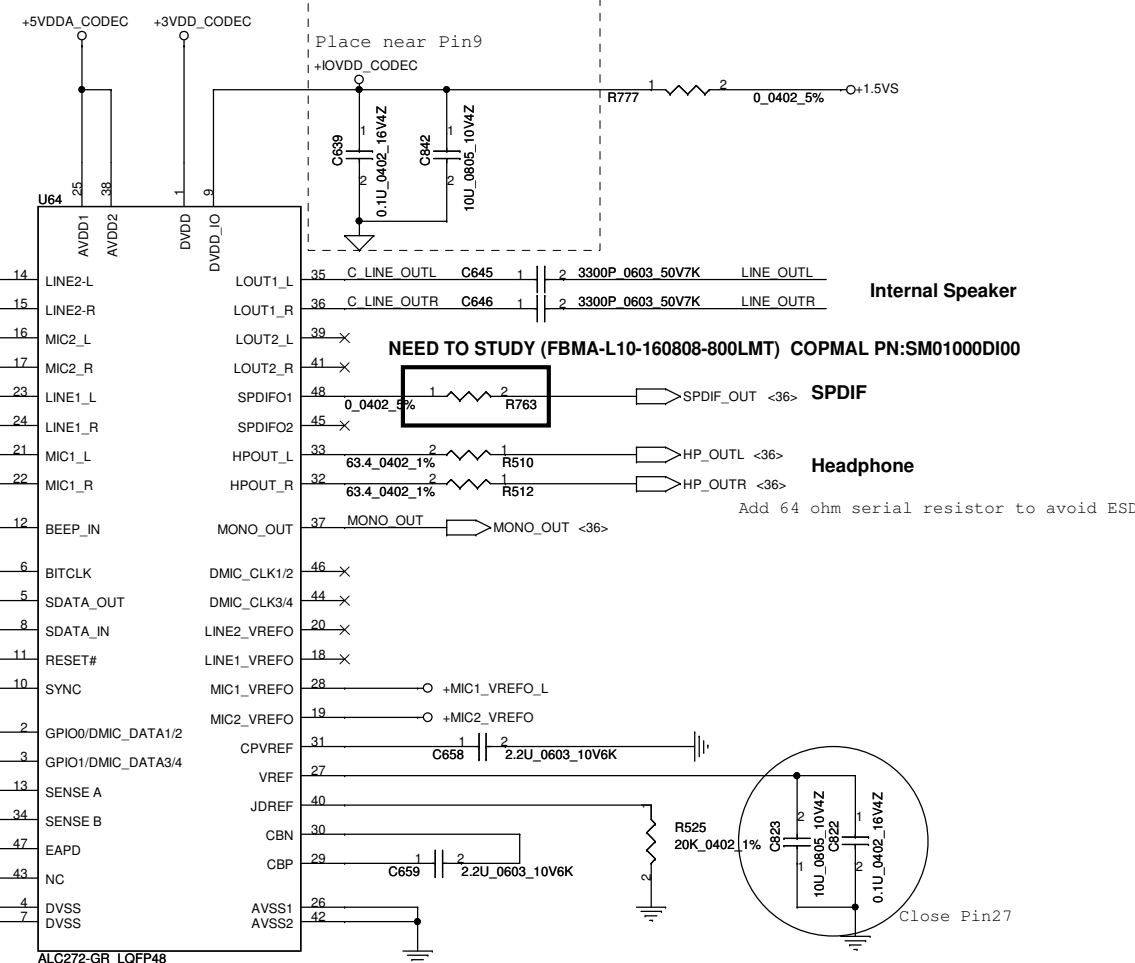
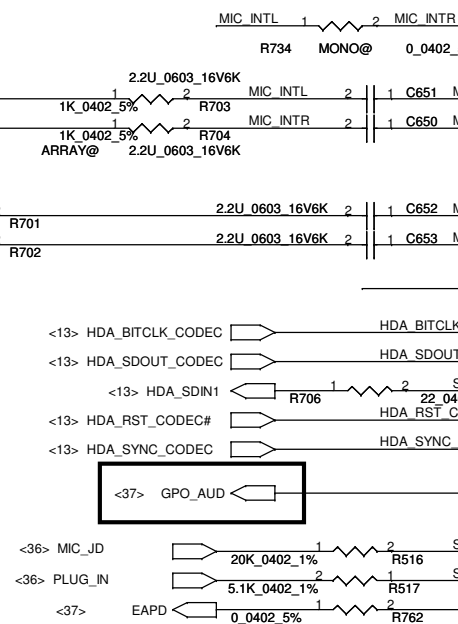
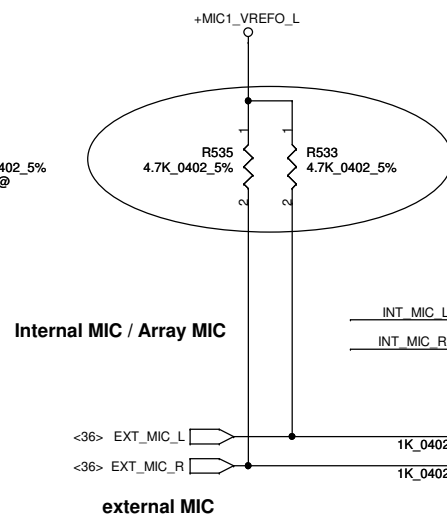
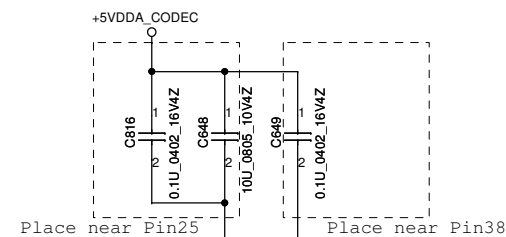
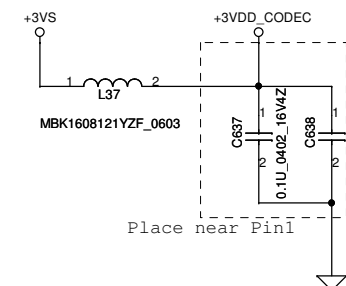
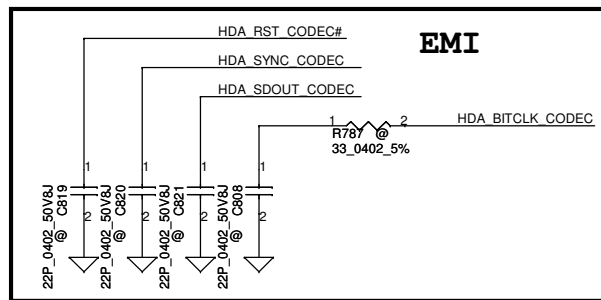
A- = RXN

B- = TXN

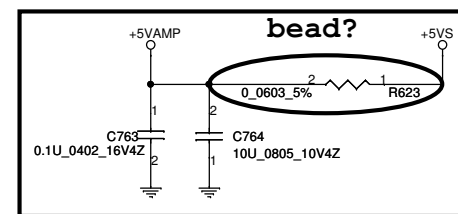
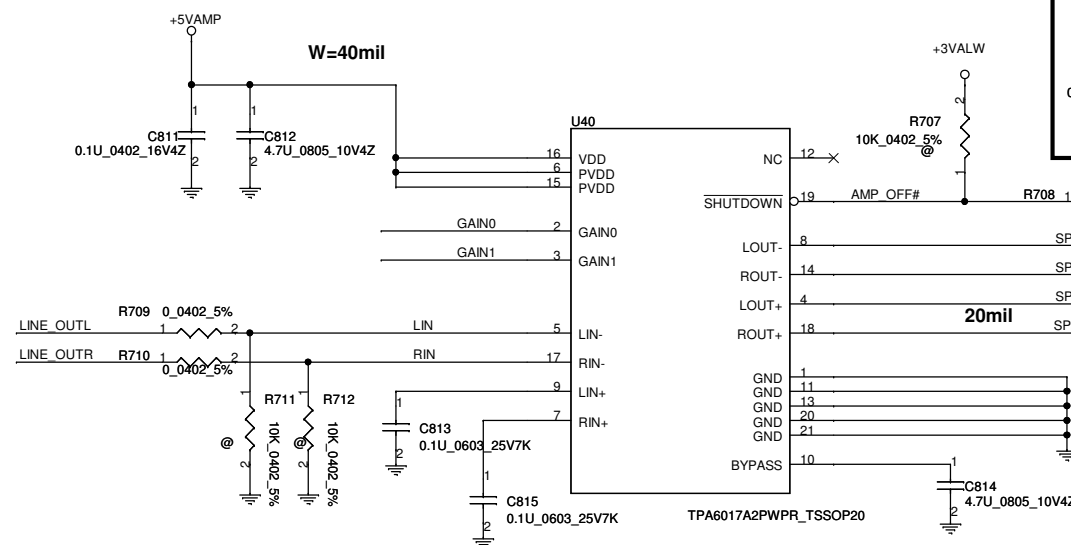
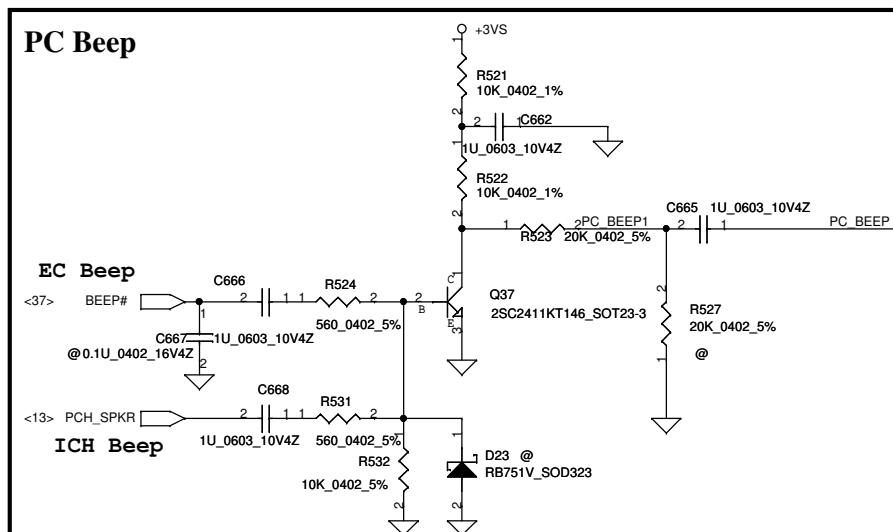
B+ = TXP



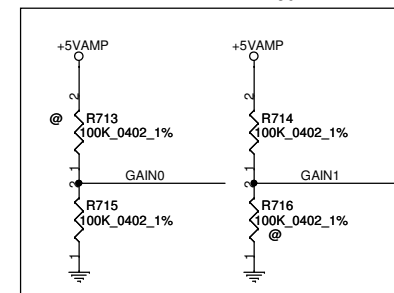
Security Classification	Compal Secret Data			Title	
Issued Date	2007/10/15	Deciphered Date	2008/10/15	HDD & ODD Connector	
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					NIWBA_LA5371P
Date: Tuesday, March 24, 2009				Sheet	34 of 52



```
MIC Sense
R516 place near pin13
Capless HP Sense
R517 place near pin34
```



GAIN0	GAIN1	
0	0	6dB
0	1	10dB
1	0	15.6dB
1	1	21.6dB



Security Classification	Compal Secret Data		
Issued Date	2008/03/25	Deciphered Date	2008/04/
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Compal Electronics, Ltd.			
Title HD Audio Codec_ALC272			
Size C	Document Number NIWBA_LA5371P	Rev 0.	
Date: Tuesday, March 24, 2009		Sheet 35	of 52

EMI 20080826

20mil

JSPK1

Signal	Pin	Label	Pin	Label
WOOFER-	L43	1	FBMA-L10-160808-121LMT	2P
WOOFER+	L44	1	FBMA-L10-160808-121LMT	2P
SPK_R1-	L45	1	FBMA-L10-160808-121LMT	2P
SPK_R2+	L46	1	FBMA-L10-160808-121LMT	2P
SPK_L1-	L47	1	FBMA-L10-160808-121LMT	2P
SPK_L2+	L48	1	FBMA-L10-160808-121LMT	2P

WO-

WO+

SPK_R1- CONN

SPK_R2+ CONN

SPK_L1- CONN

SPK_L2+ CONN

1

2

3

4

5

6

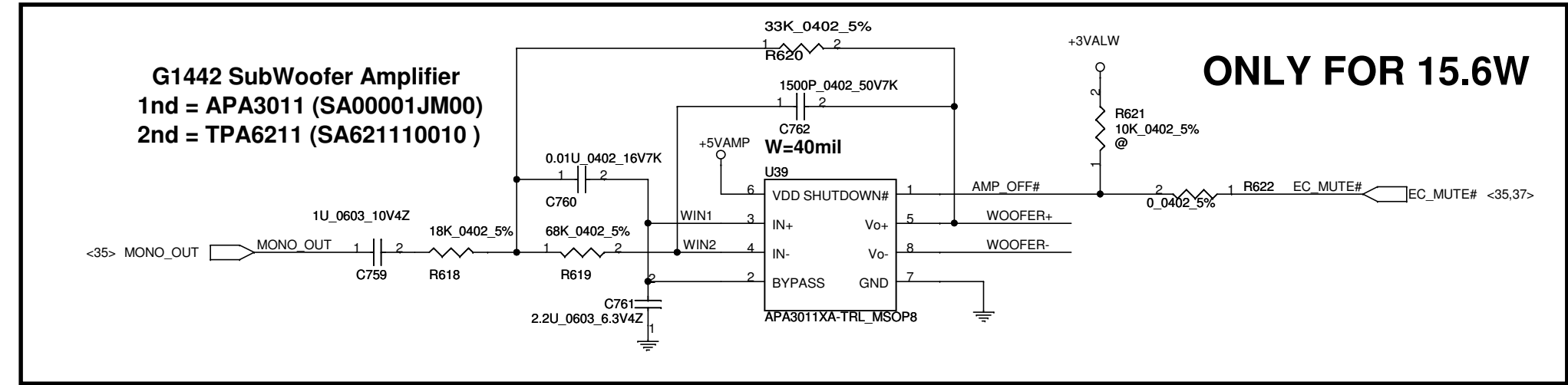
5 G1

6 G2

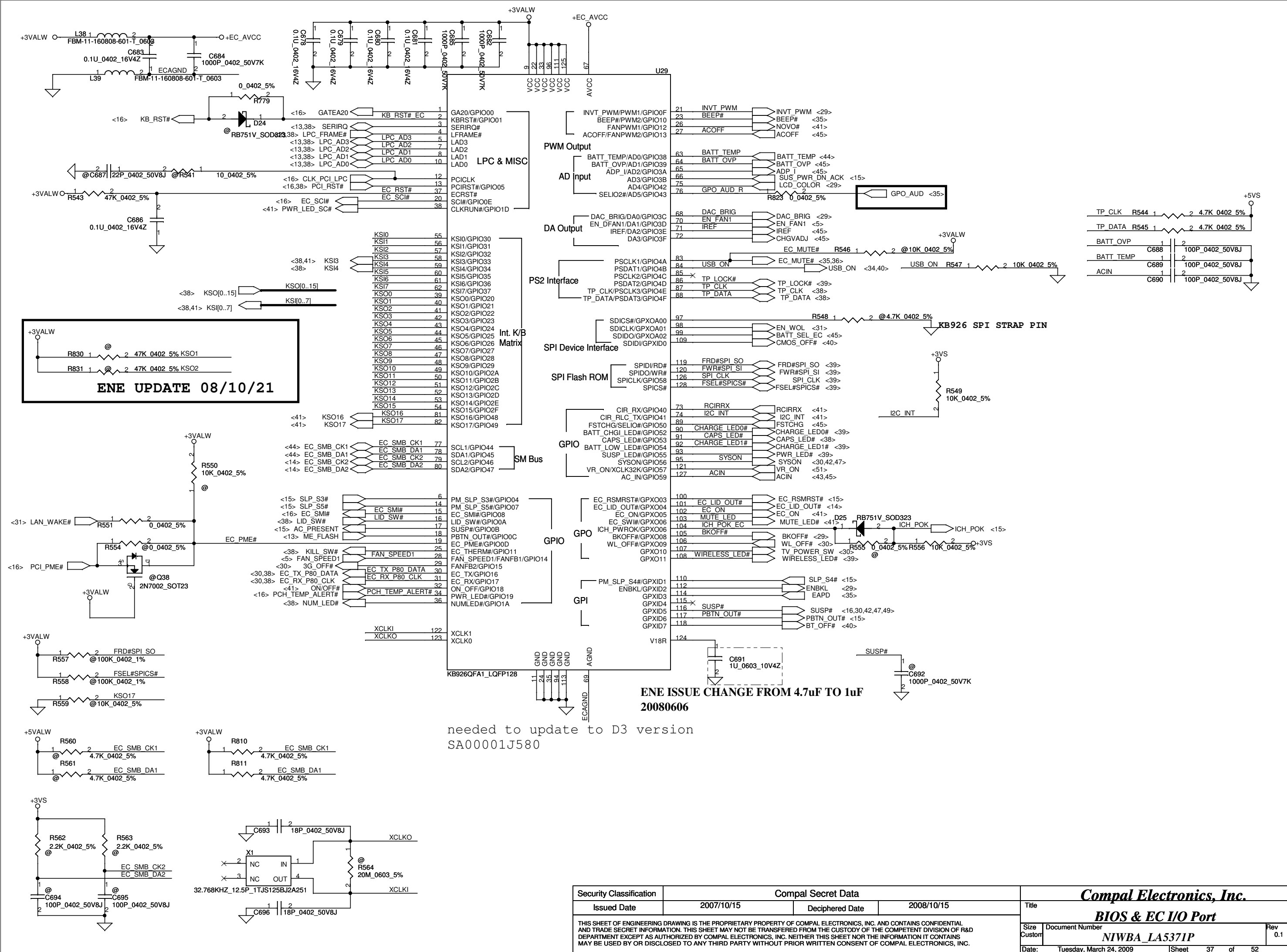
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8

ACES_87213-0600G

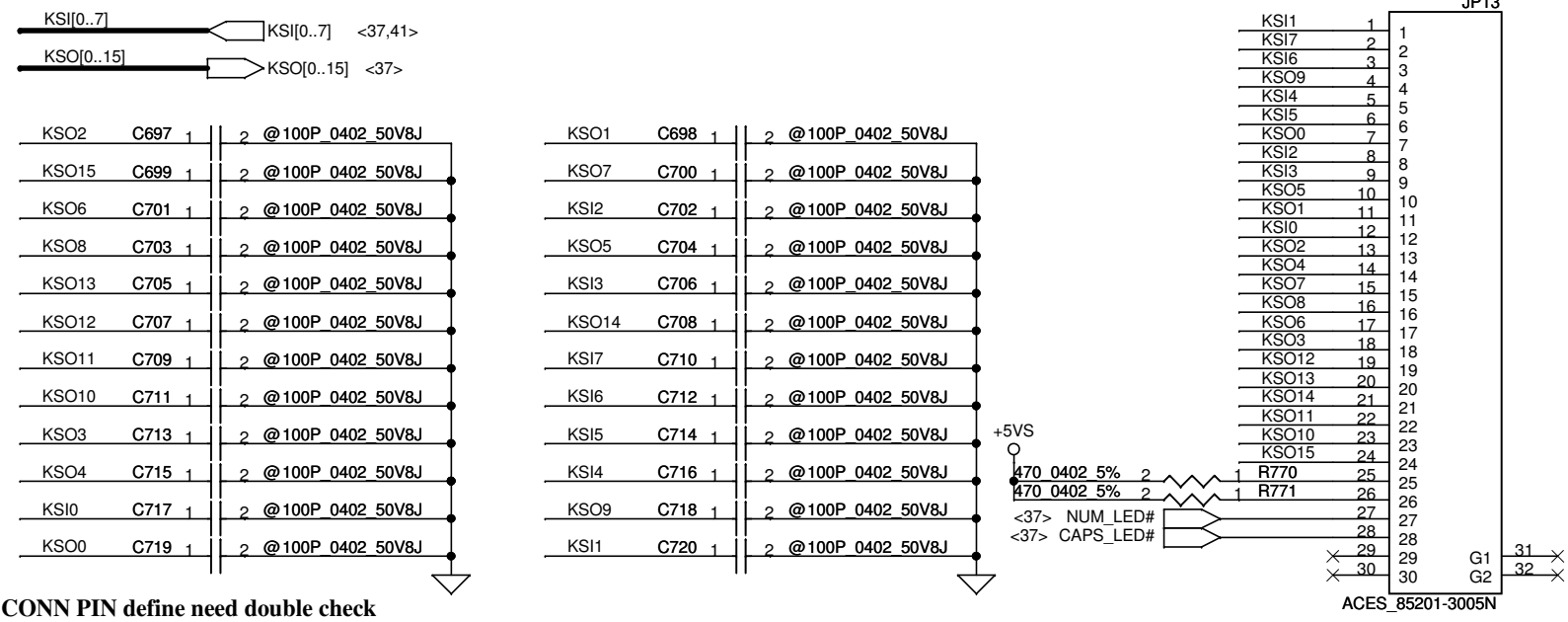


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				Custom	KIWB1/B2_LA4601P	0.1
				Date: Tuesday, March 24, 2009	Sheet 36 of 52	

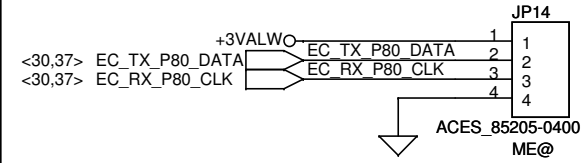


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Issued Date		Deciphered Date		2007/10/152008/10/15	
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Size Custom		Document Number		Rev	
Date:		Tuesday, March 24, 2009		Sheet 37 of 52	

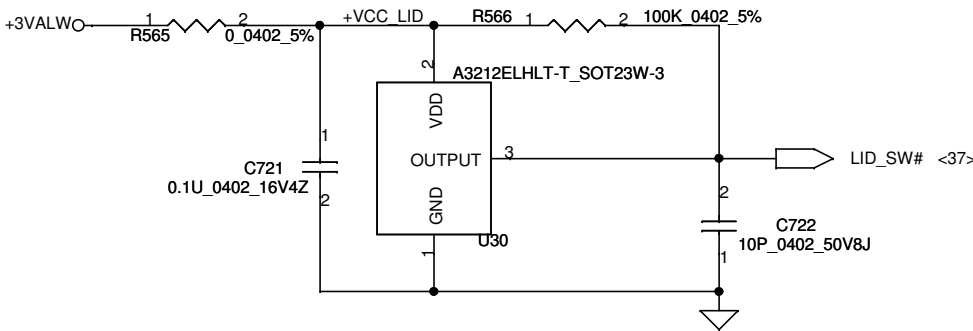
INT_KBD Conn.



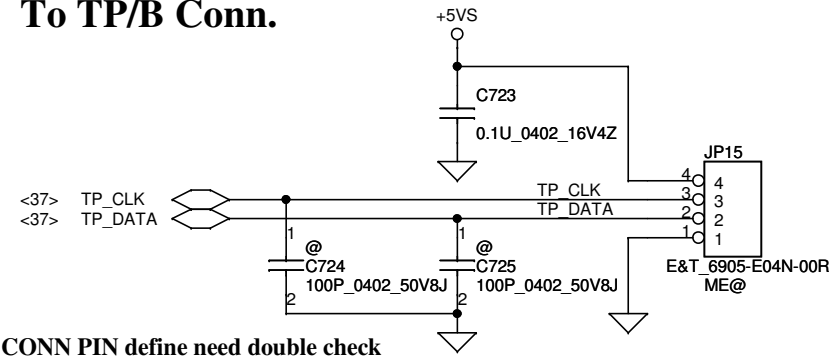
EC DEBUG PORT



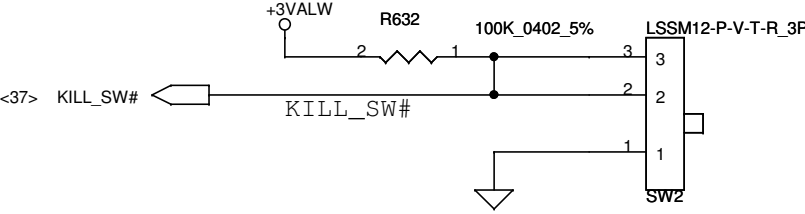
Lid Switch



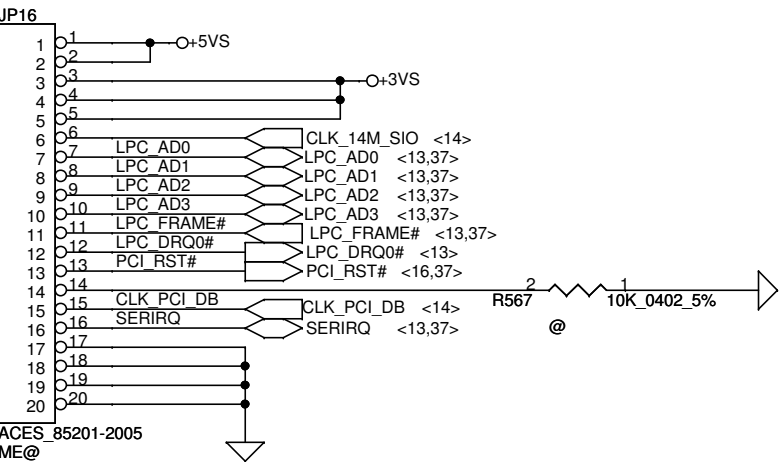
To TP/B Conn.



Kill Switch

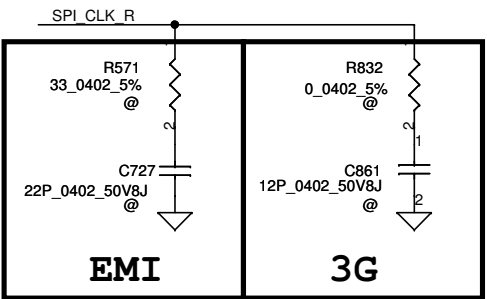
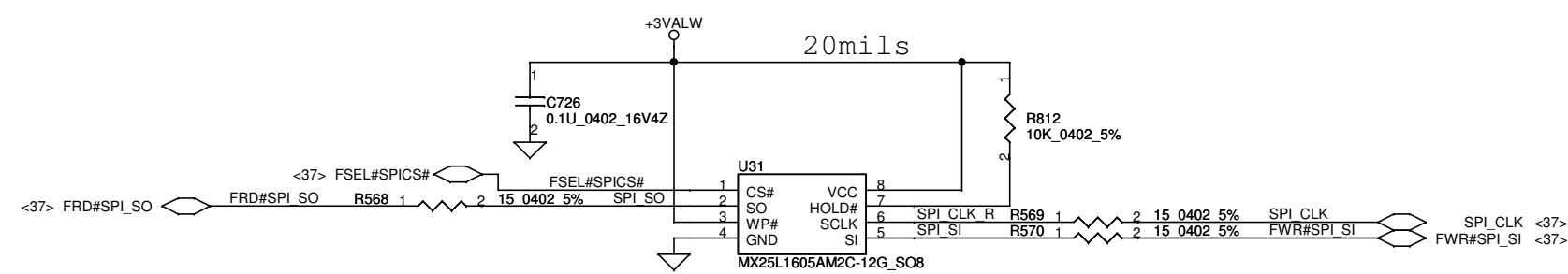


FOR LPC SIO DEBUG PORT



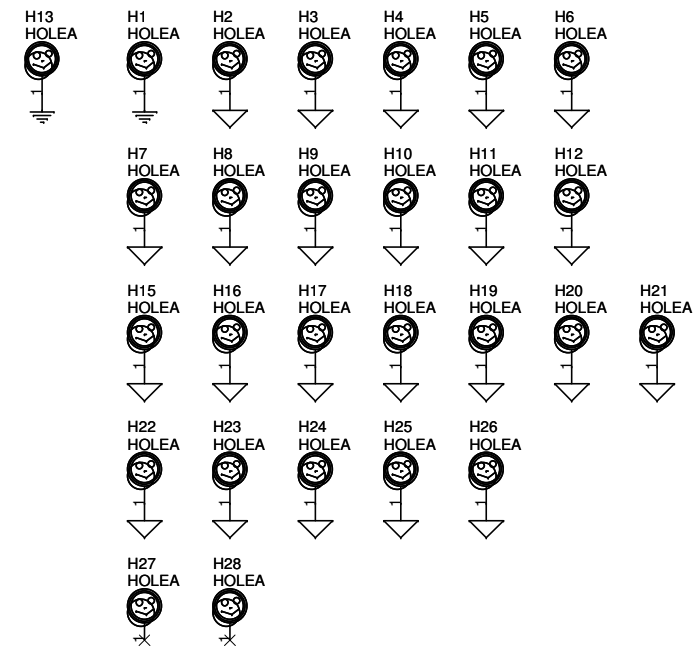
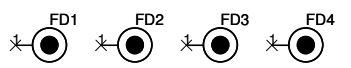
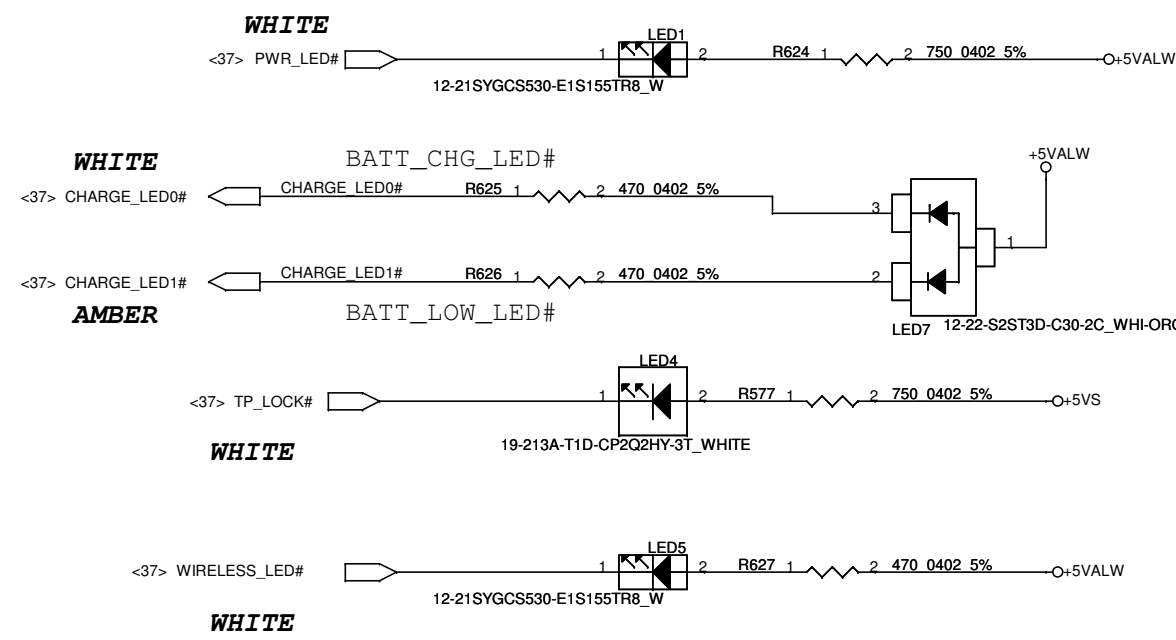
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Issued Date		2007/10/15	Deciphered Date		2008/10/15	
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				KB /SW /LPC Debug Conn.		
				Size	Document Number	Rev
				B	KIWB1/B2_LA4601P	0.1
Date:				Tuesday, March 24, 2009		Sheet 38 of 52

FOR EC 16M SPI ROM

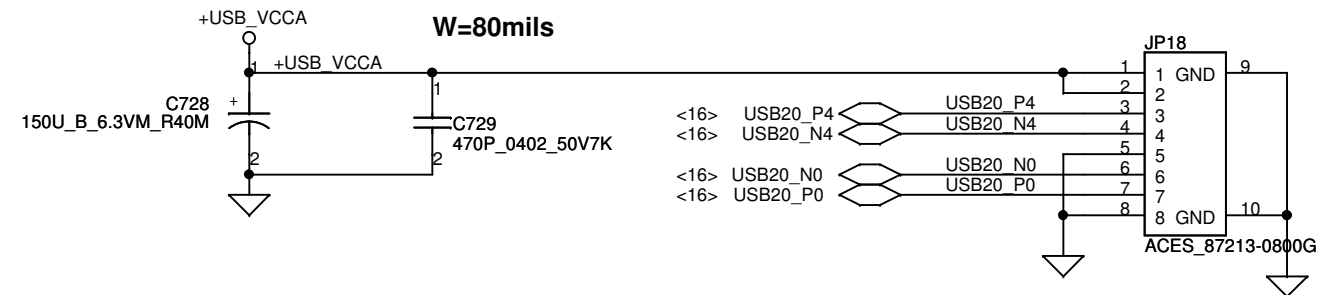
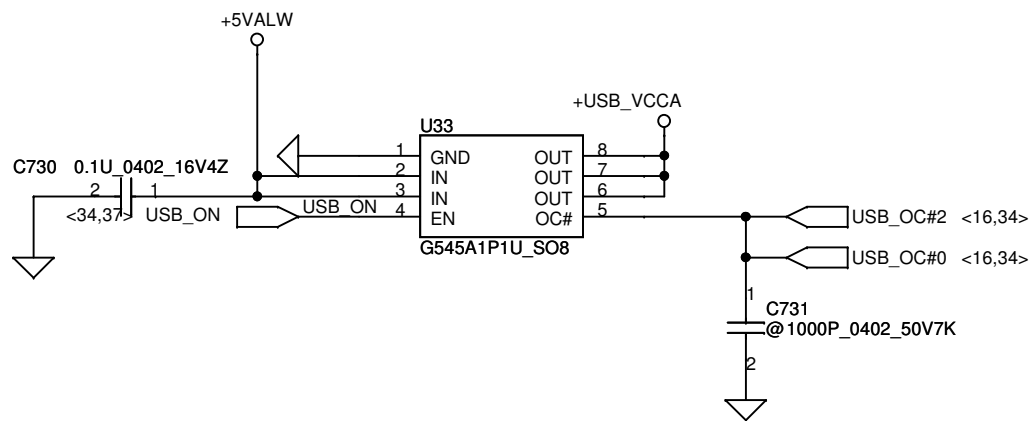


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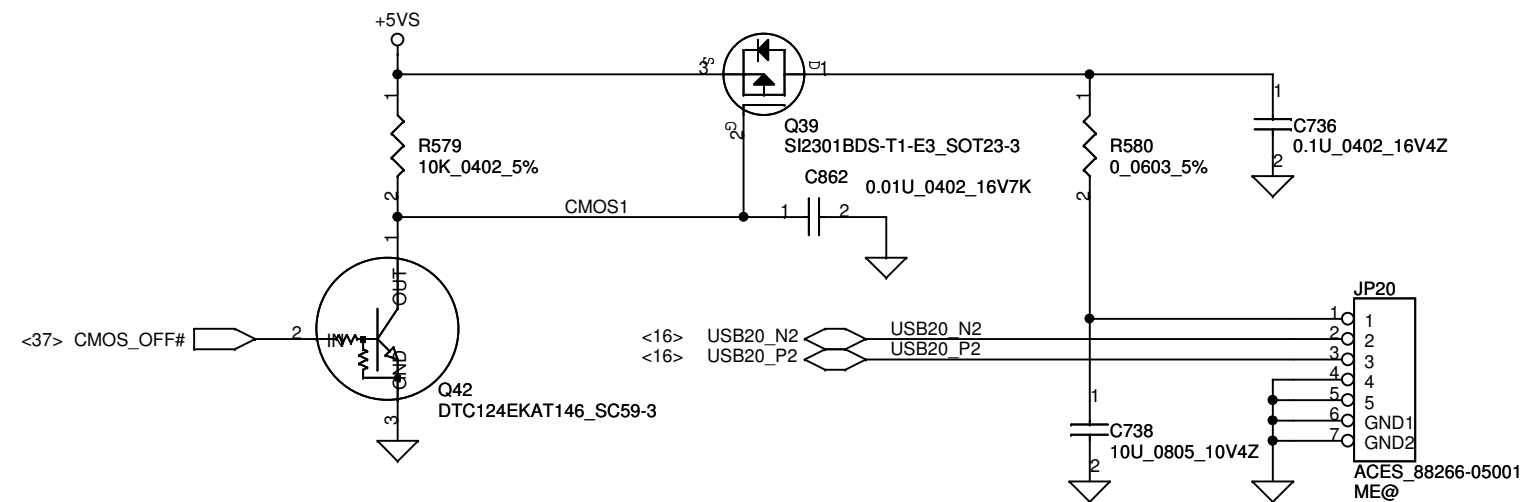
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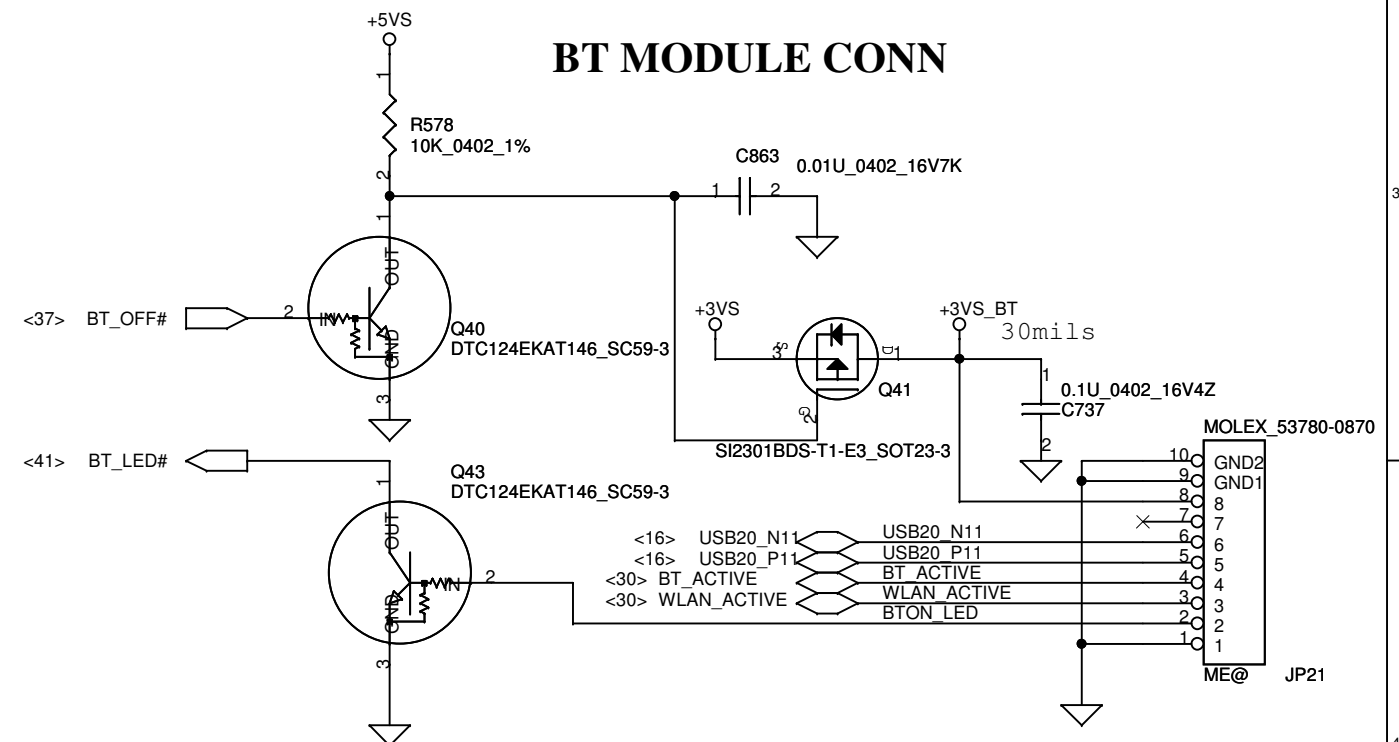
Security Classification	Compal Secret Data			Compal Electronics, Inc.	
Issued Date	2007/10/15	Deciphered Date	2008/10/15	Title	
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				Size B	Document Number
				NIWBA_LA5371P	
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				Sheet	39 of 52



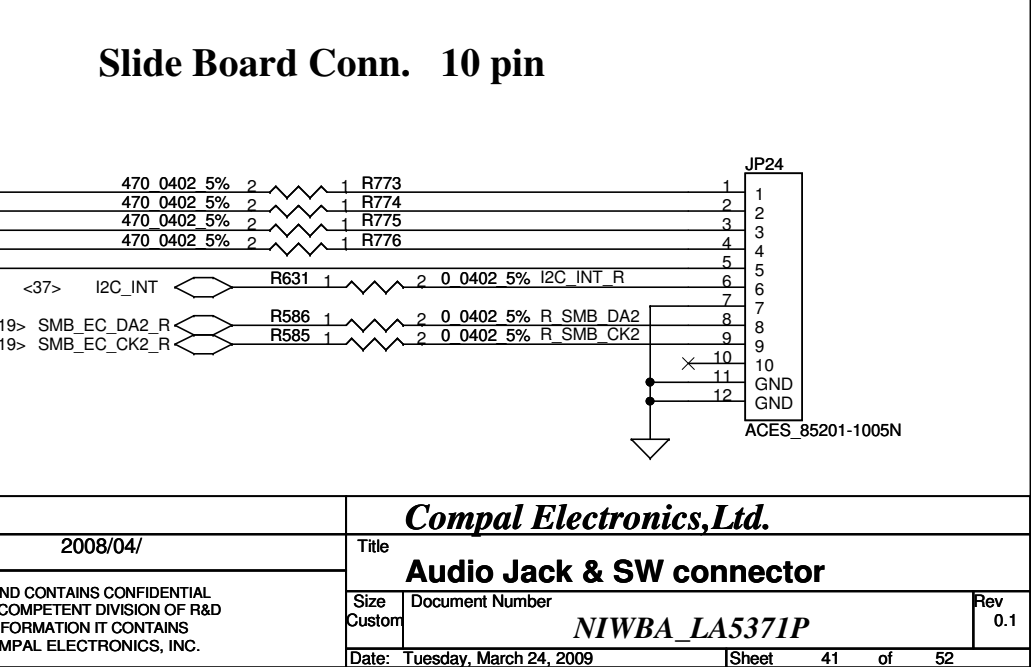
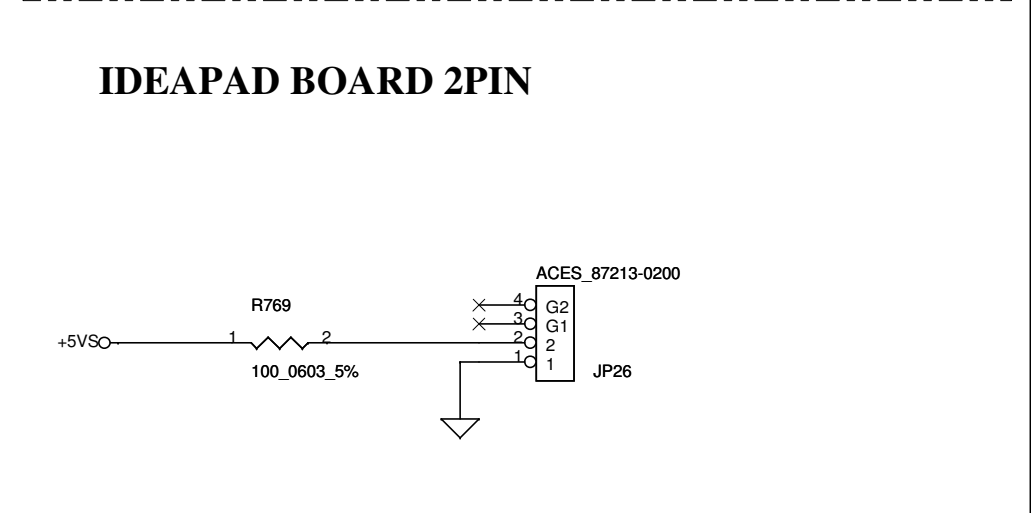
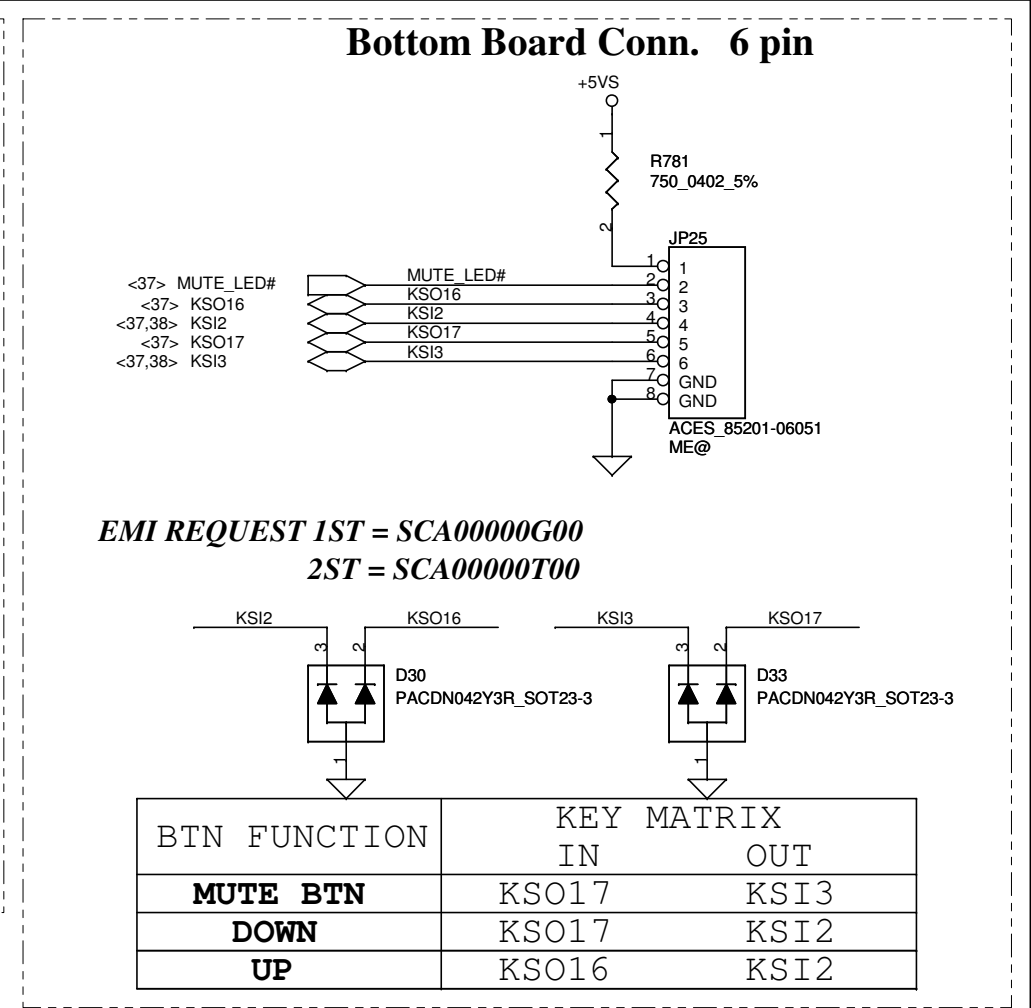
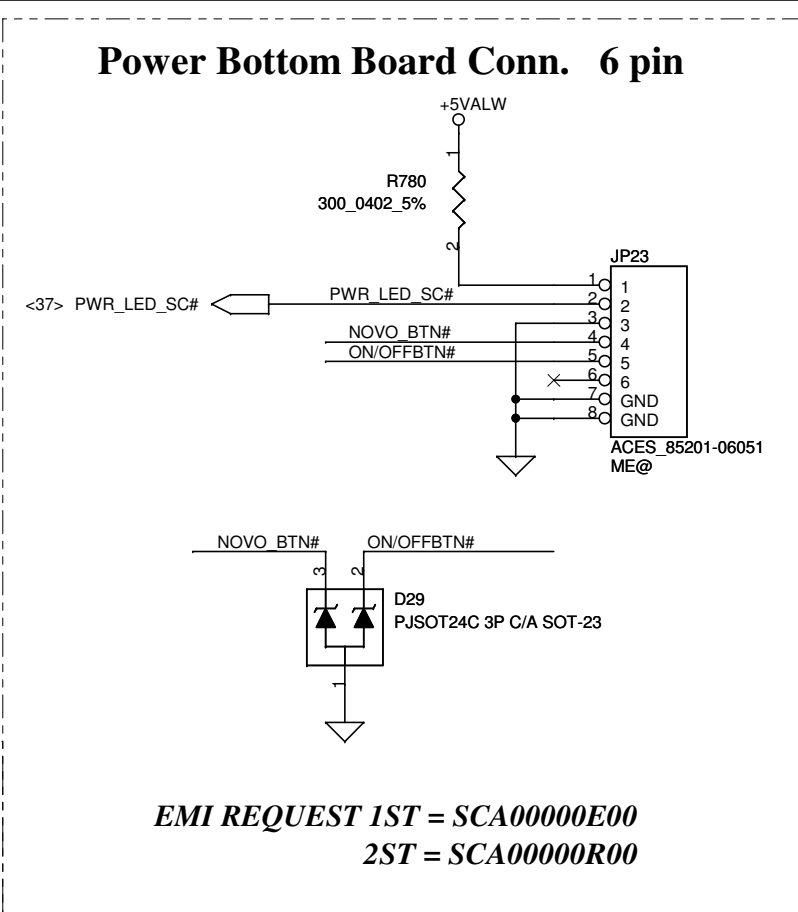
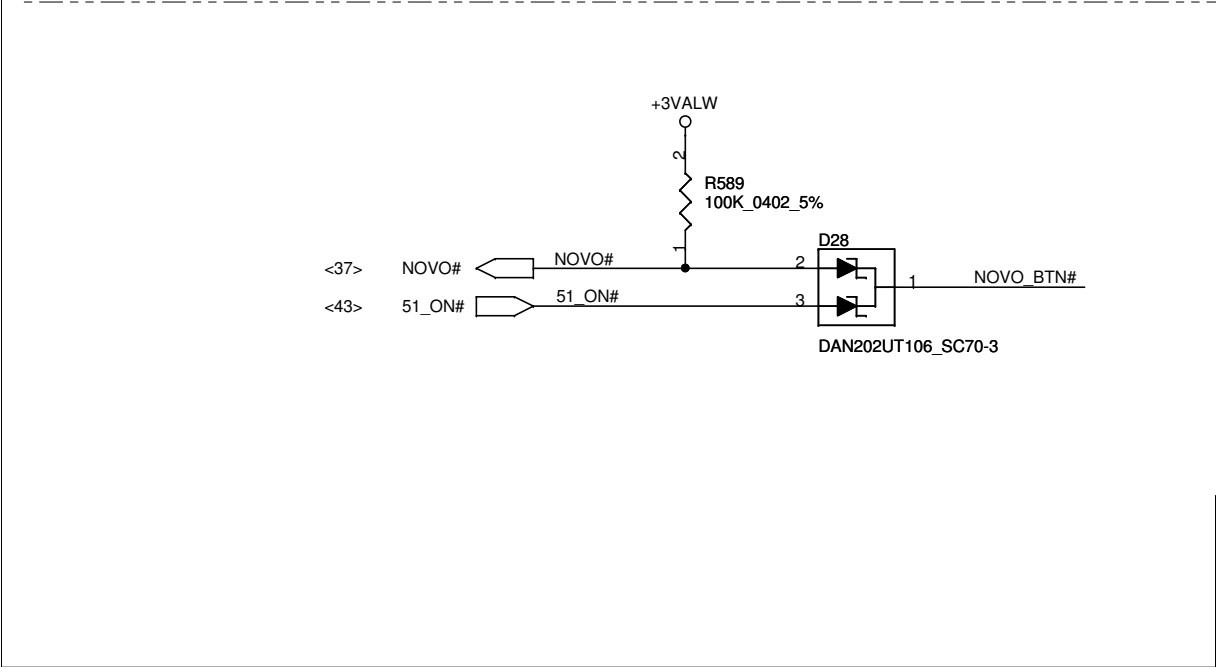
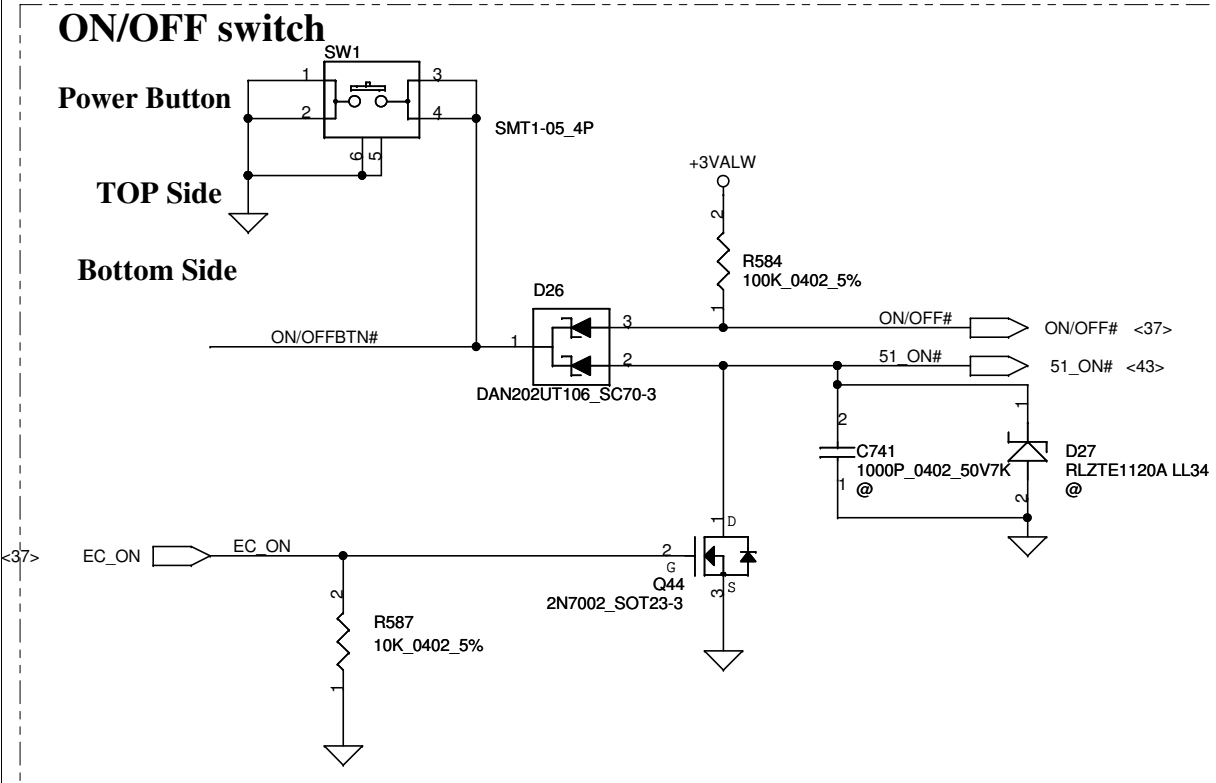
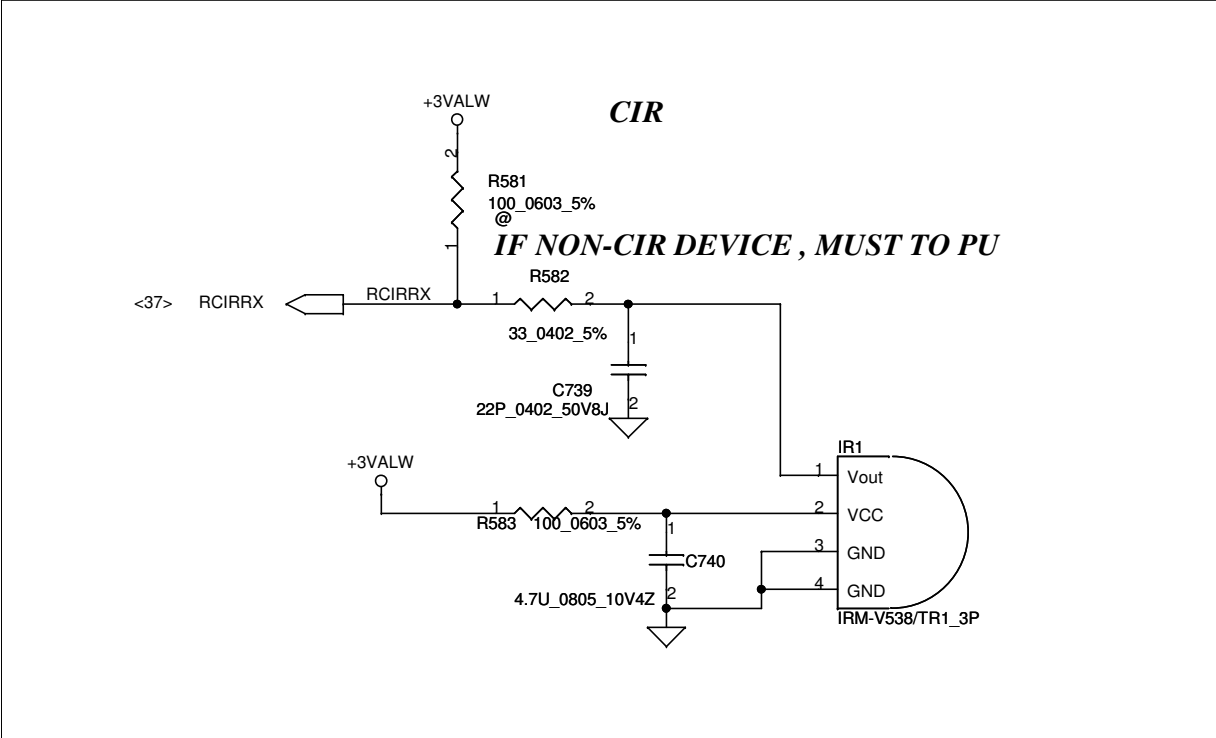
CMOS Camera Conn



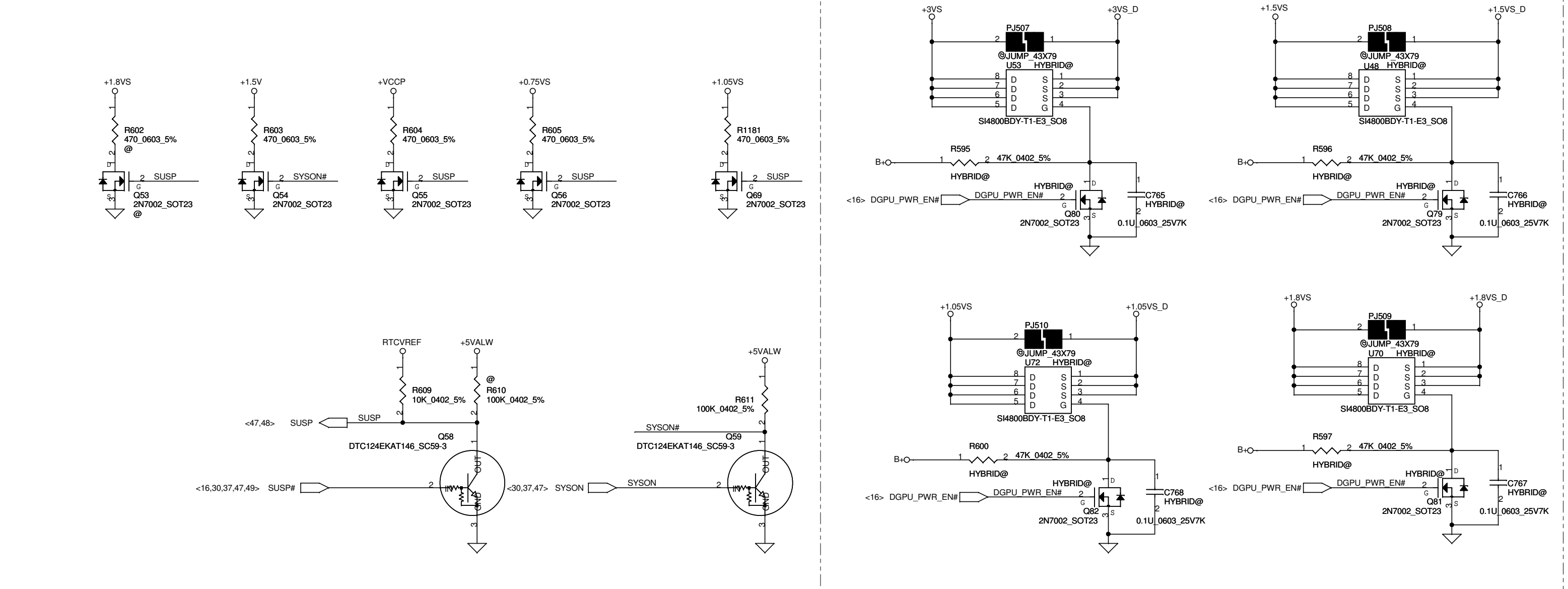
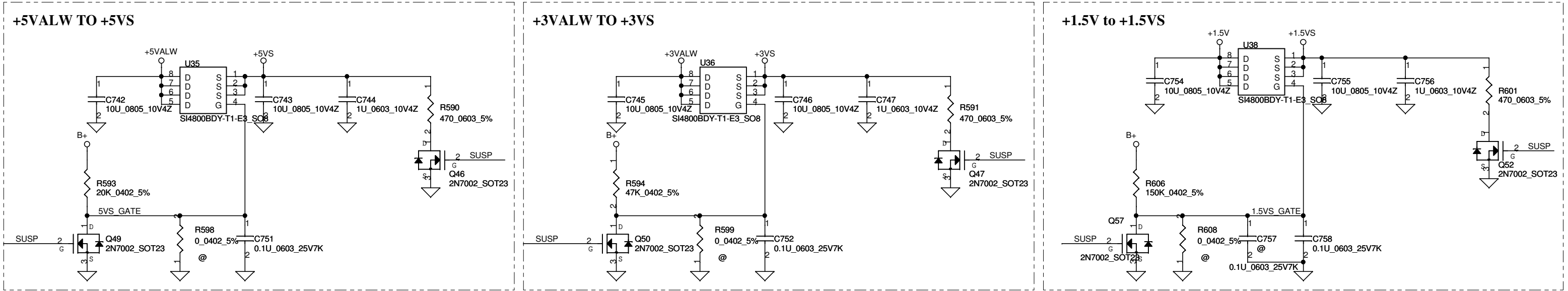
BT MODULE CONN



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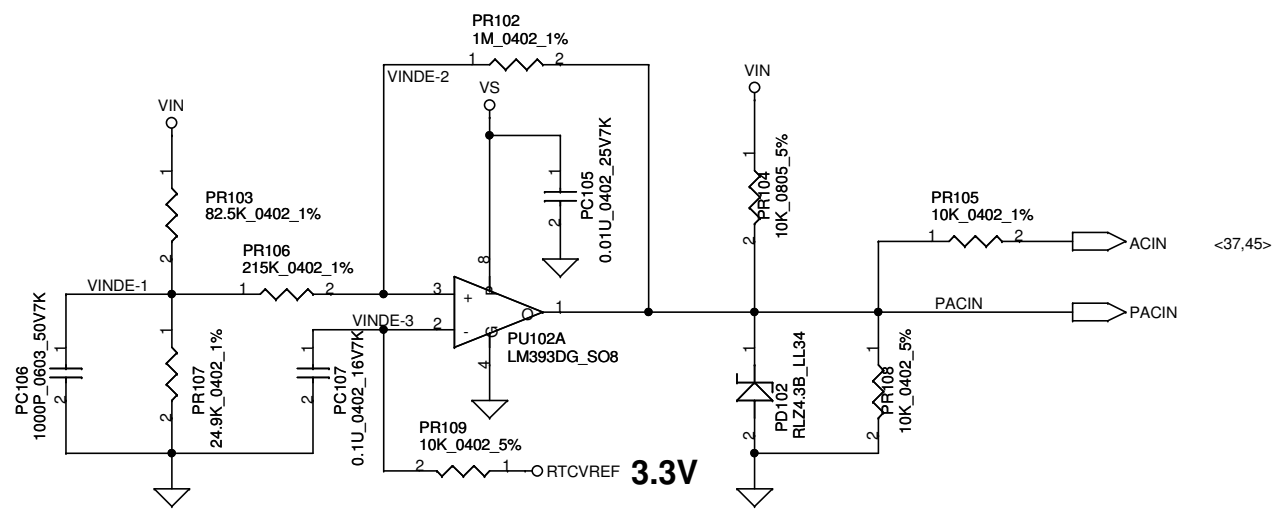
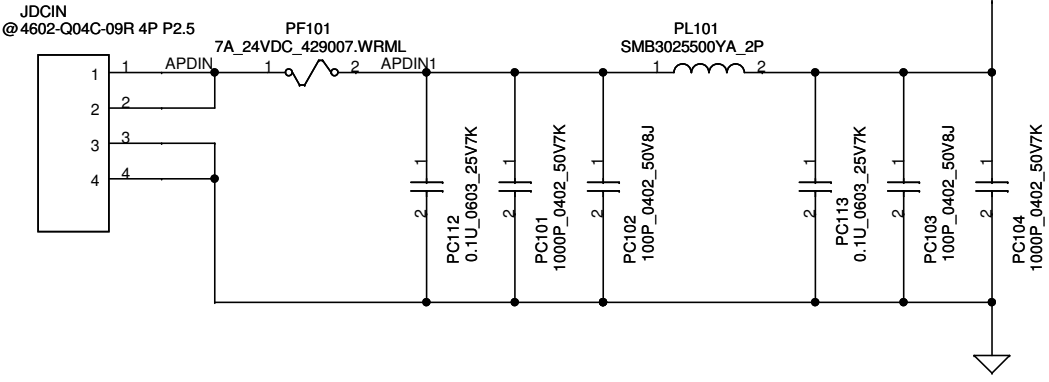


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				Size Custom	Rev 0.1
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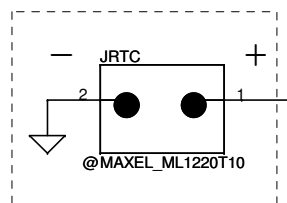
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				Custom	NIWBA_LA5371P
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DC030006J00

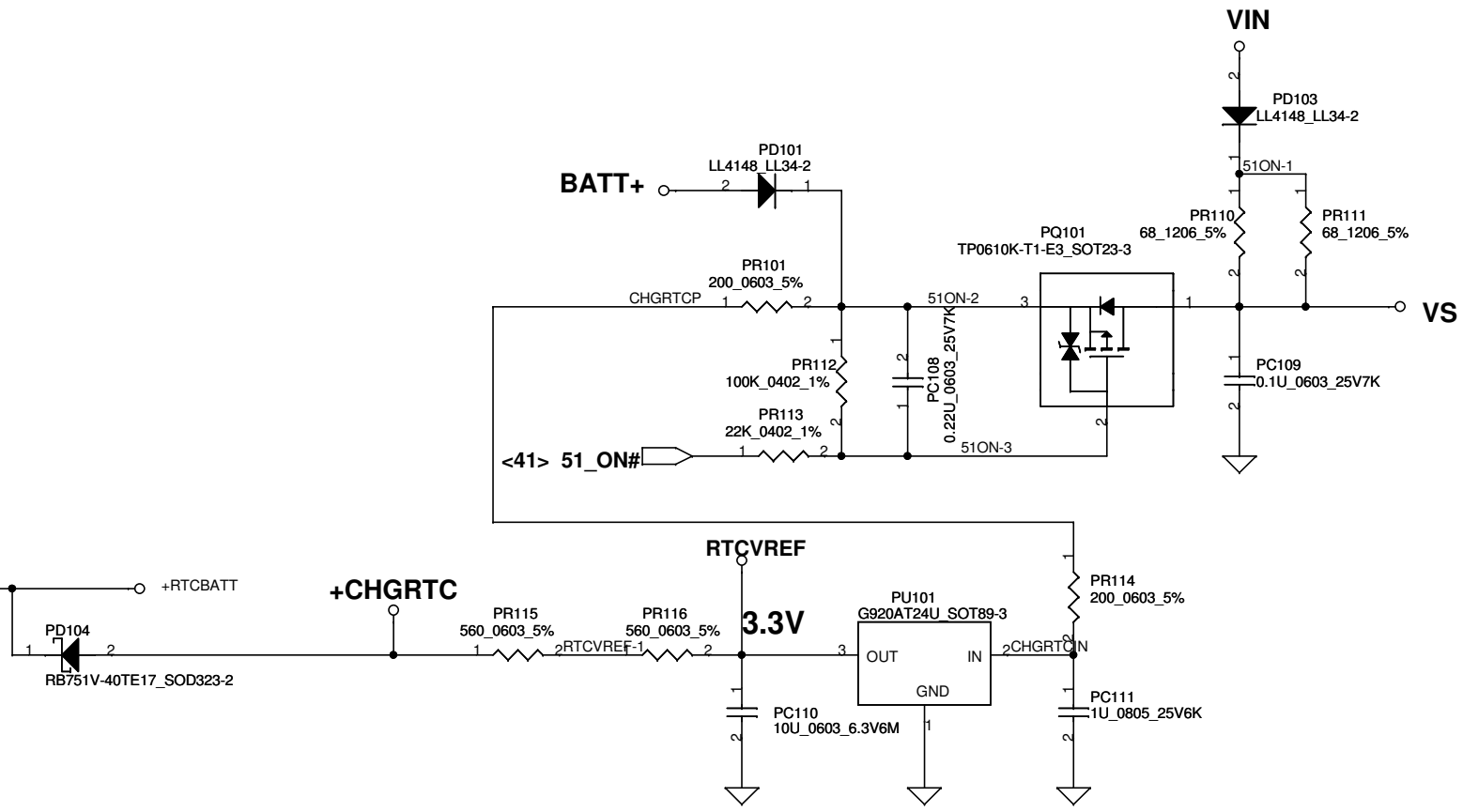


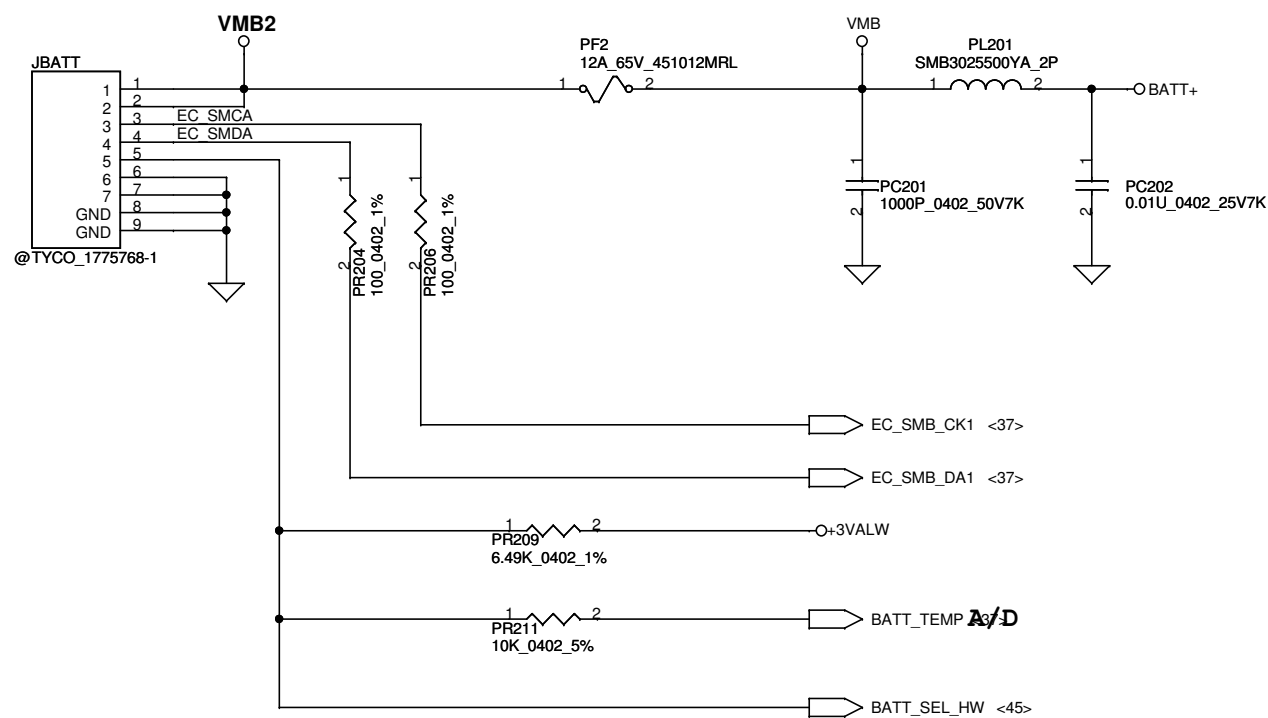
Vin Detector		
High	18.135	17.566
Low	14.866	14.355

RTC Battery



SP093MX0000

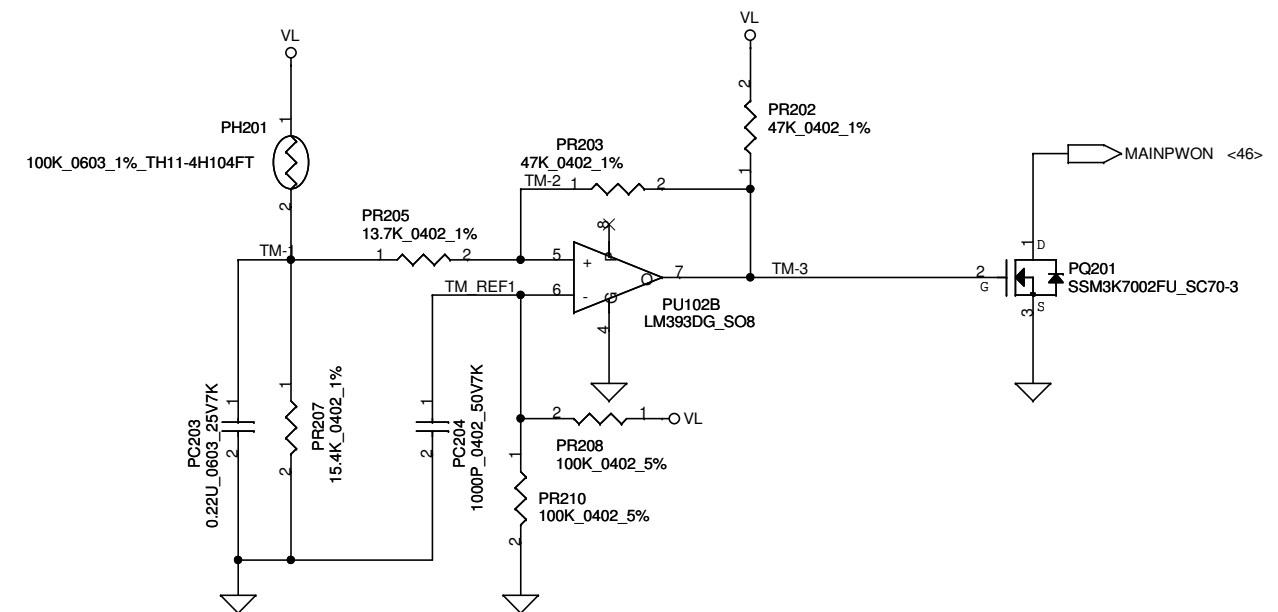




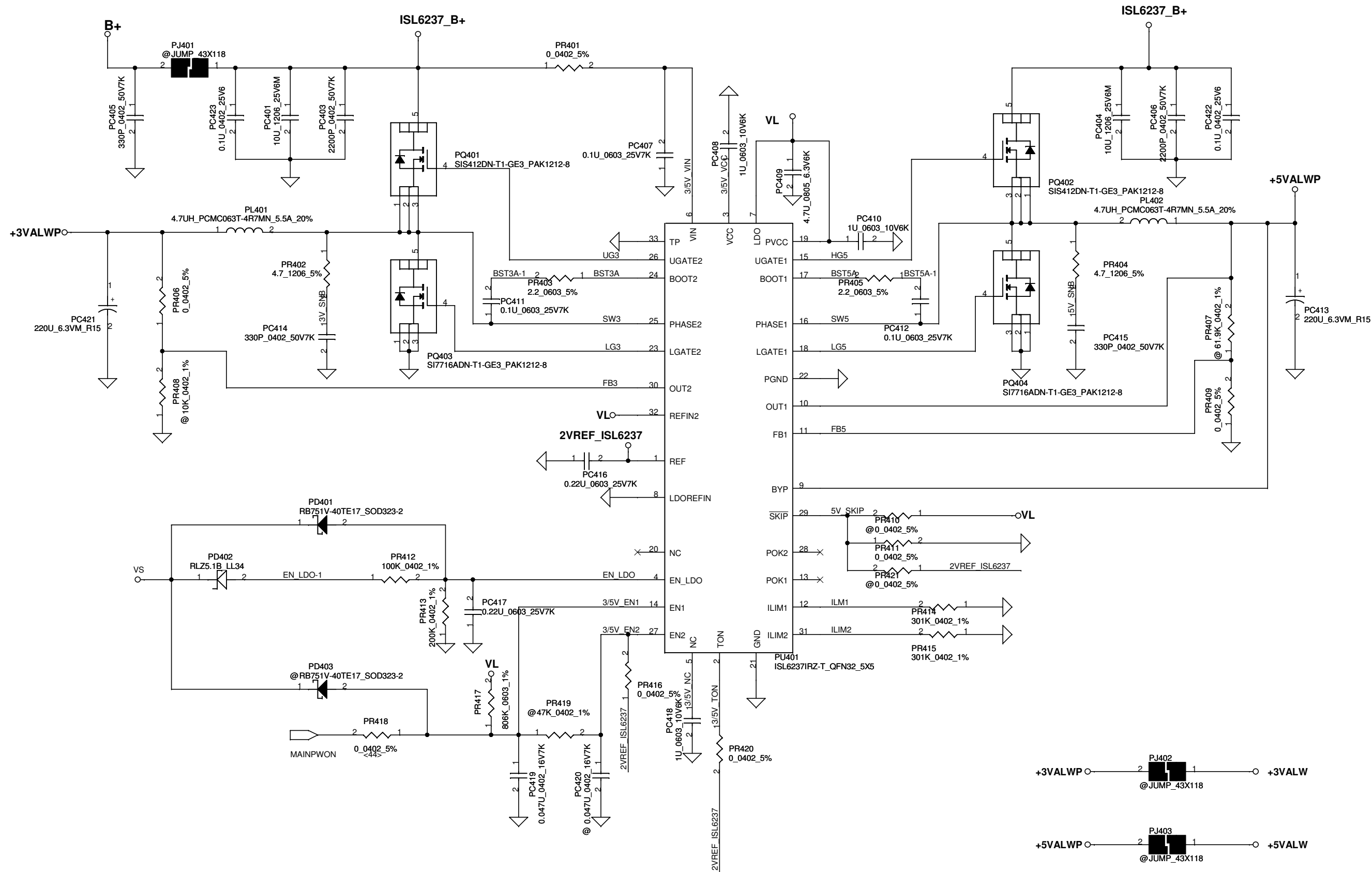
PH1 under CPU botten side :

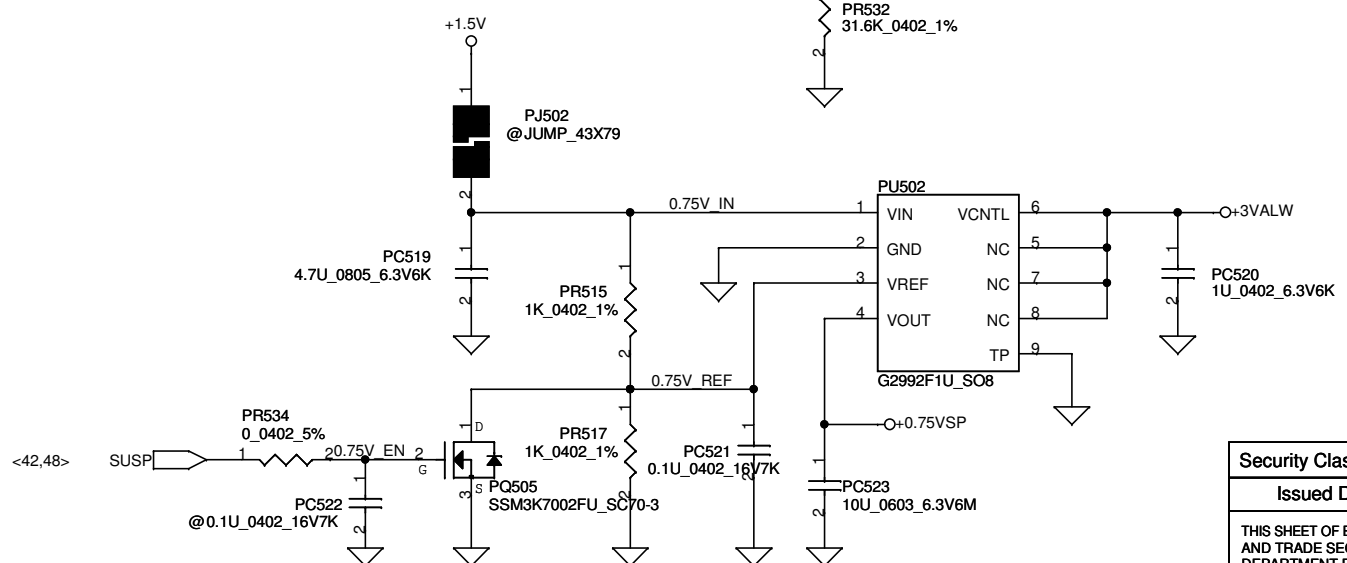
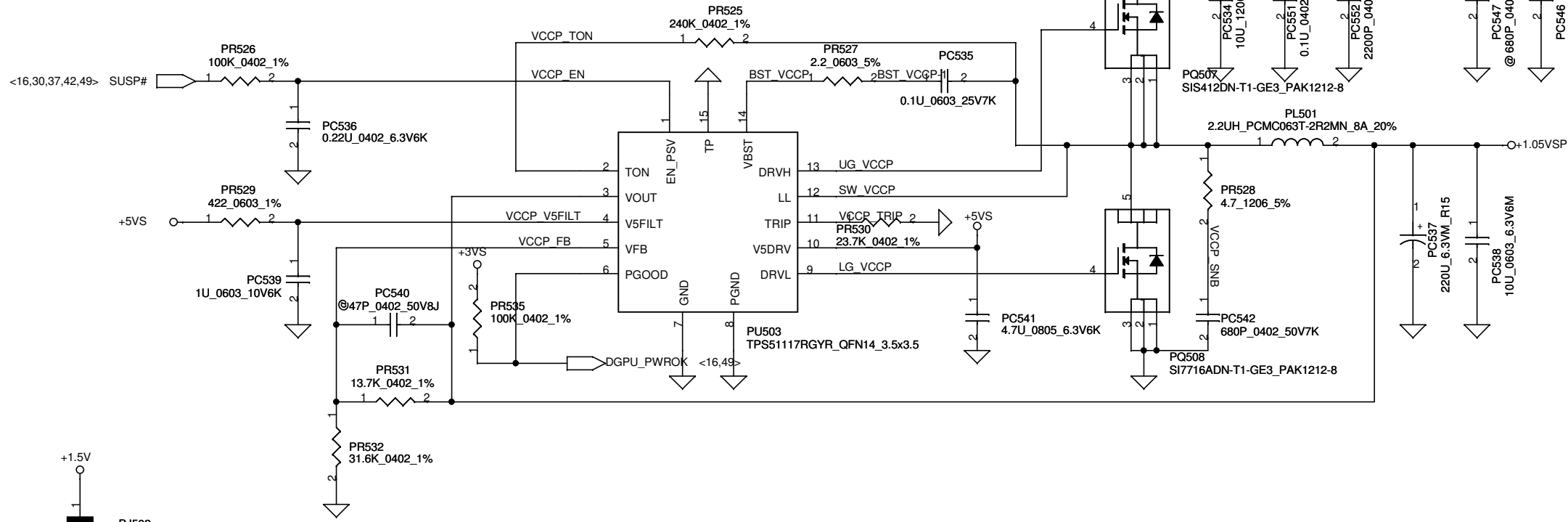
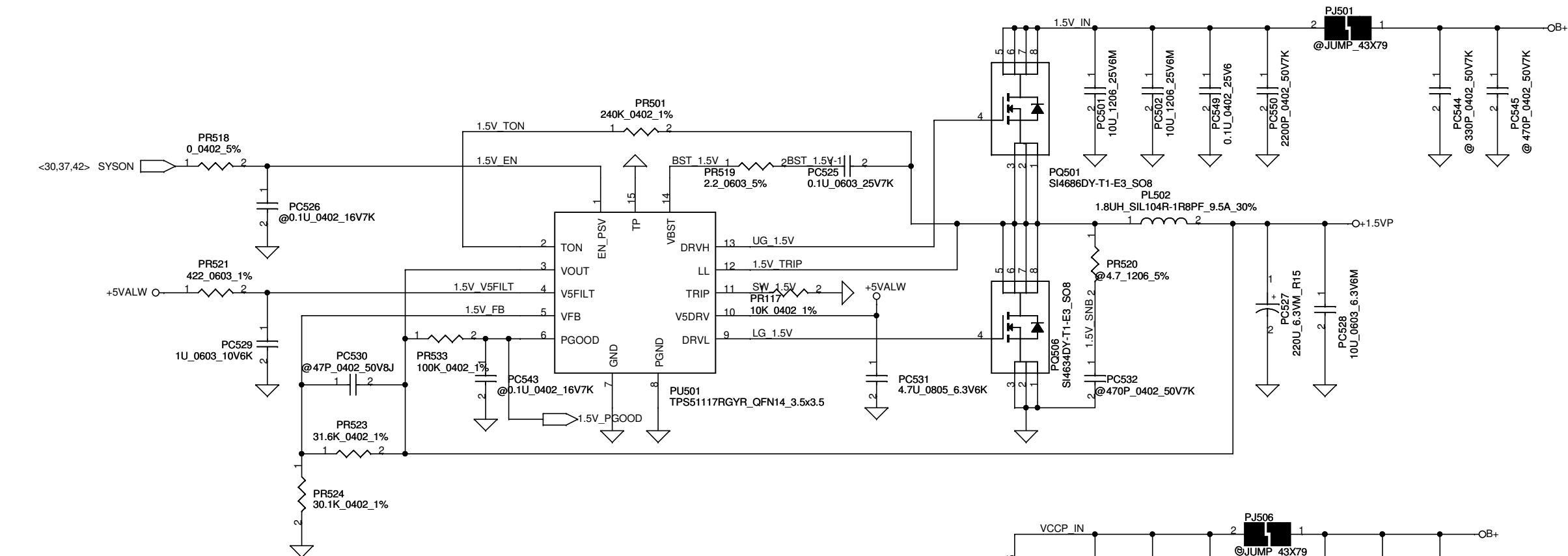
CPU thermal protection at 92 degree C

Recovery at 56 degree C

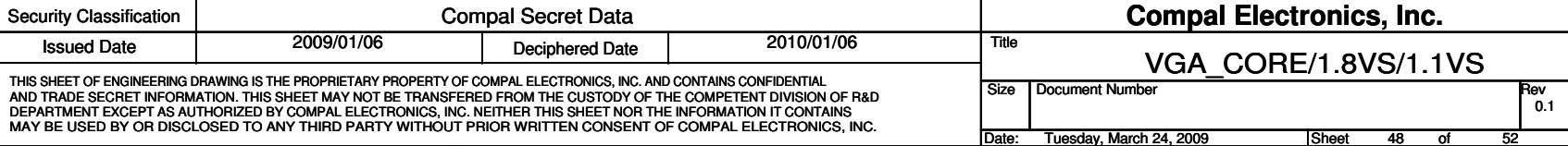


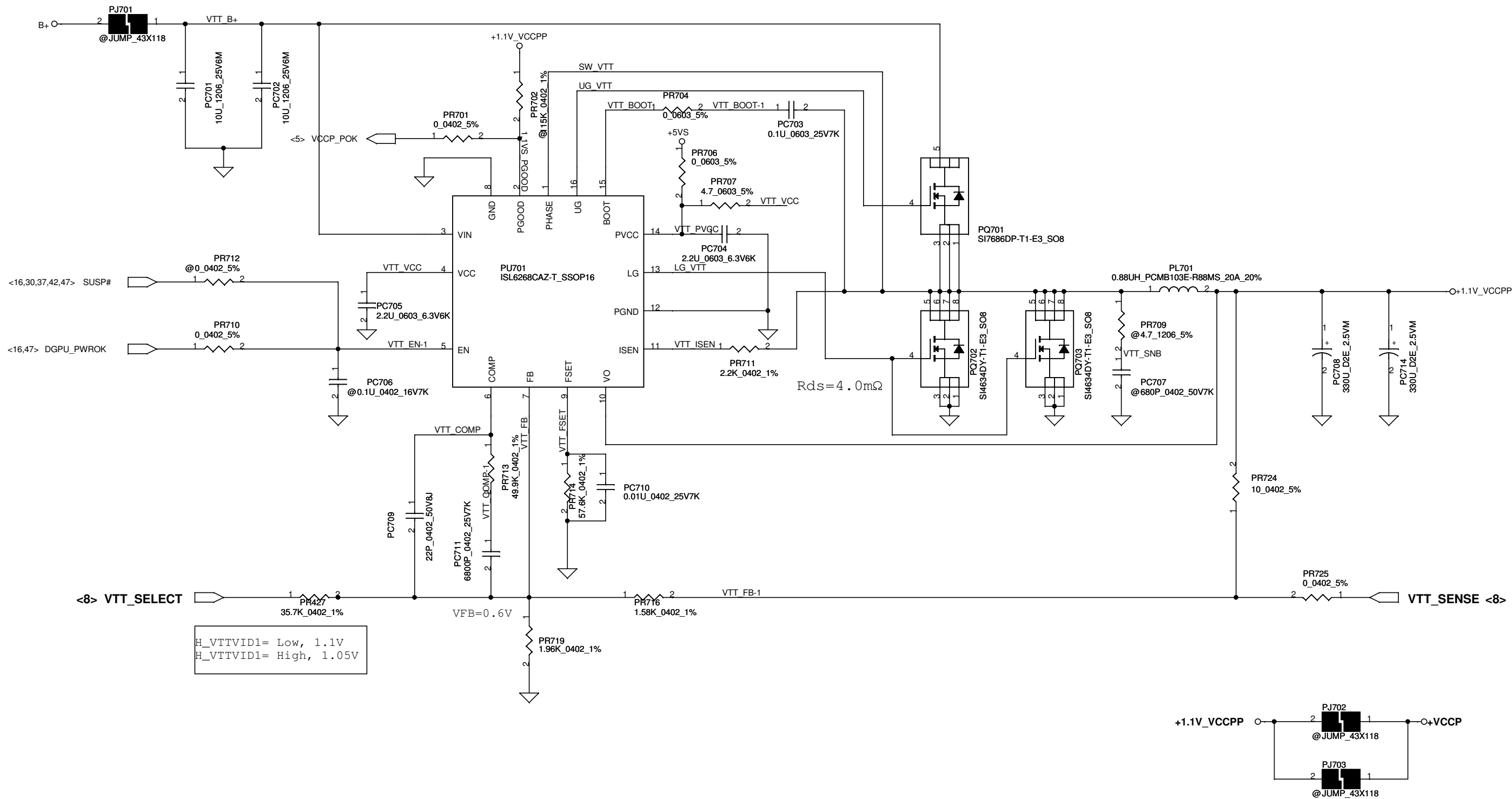
Security Classification	Compal Secret Data			Compal Electronics, Inc.	
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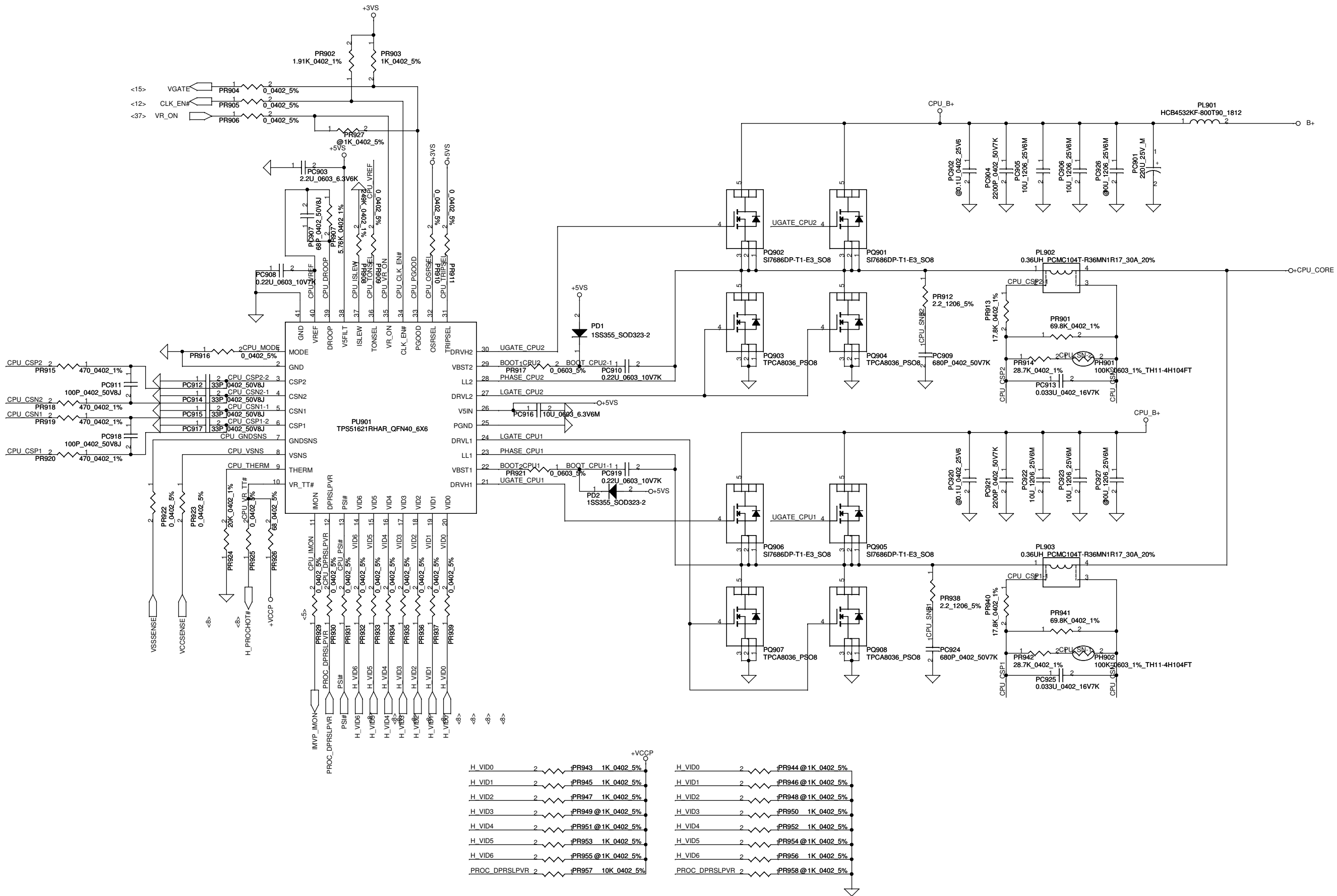


H_VTTVID1= Low, 1.1V
H_VTTVID1= High, 1.05V

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Issued Date	2009/01/06	Deciphered Date	2010/01/06				Title
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Item	Reason for change	PG#	Modify List	Date	Phase
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