

# Compal Confidential

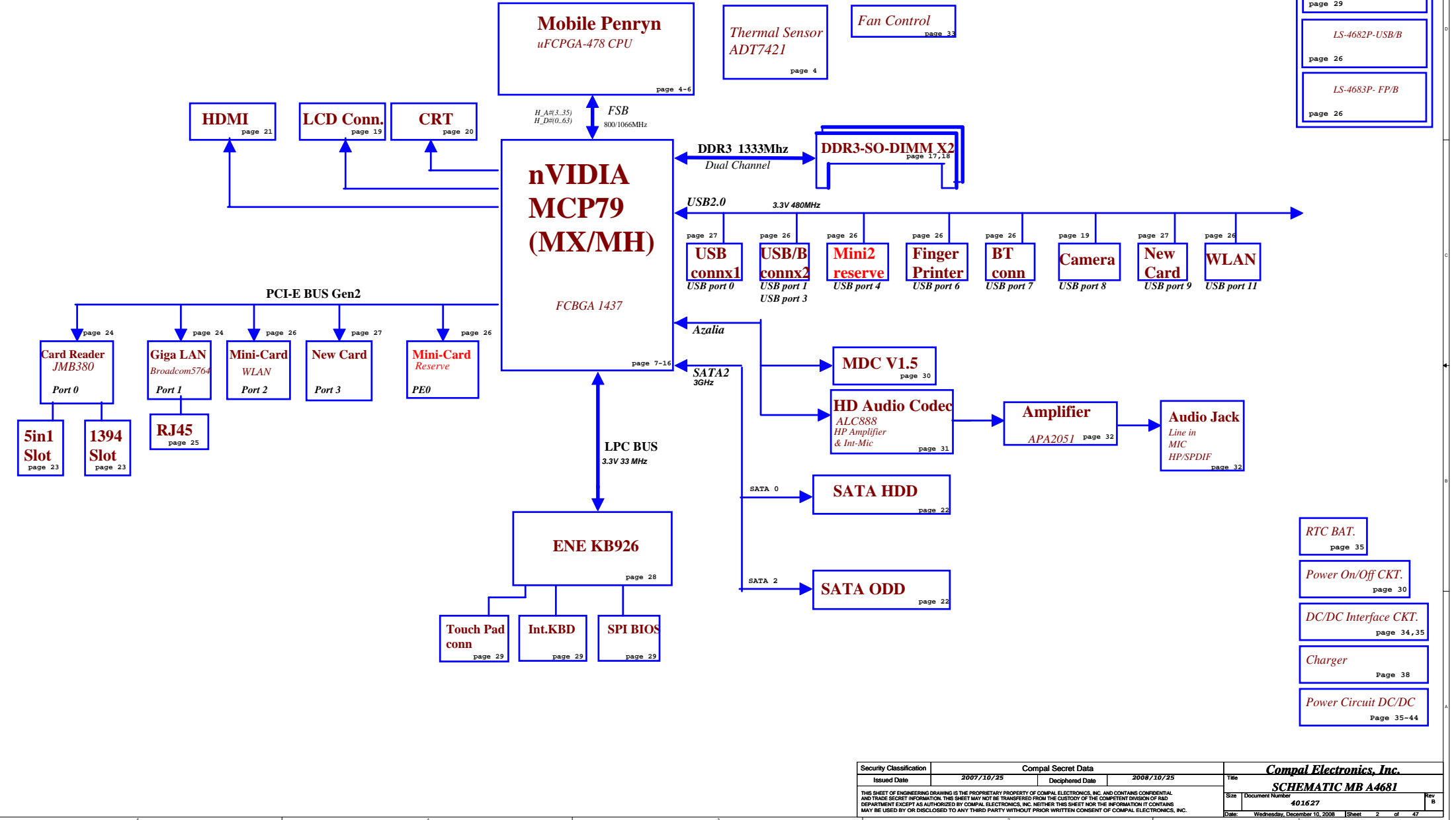
## KALA0 Schematics Document

### Intel Processor with MCP79

2008-11-25

REV: 0.4

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Voltage Rails

Power Plane	Description	S0	S3	S5
VIN	Adapter power supply (19V)	N/A	N/A	N/A
B+	AC or battery power rail for power circuit.	N/A	N/A	N/A
+CPU_CORE	Core voltage for CPU	ON	OFF	OFF
+MCP_CORE	Core voltage for MCP79	ON	OFF	OFF
+1.05VS	1.05V switched power rail	ON	OFF	OFF
+1.1Valways	1.1Valways switched power rail	ON	ON	ON
+1.1VS	1.1Valways switched power rail	ON	OFF	OFF
+1.5V	1.5V switched power rail	ON	ON	OFF
+1.5VS	1.5V power rail for DDR3	ON	OFF	OFF
+0.75VS	0.75VS switched power rail	ON	OFF	OFF
+1.8VS	1.8VS switched power rail	ON	OFF	OFF
+3VALW	3.3V always on power rail	ON	ON	ON*
+3V	3.3V power rail for SB	ON	ON	X
+3V_LAN	3.3V power rail for LAN	ON	ON	X
+3VS	3.3V switched power rail	ON	OFF	OFF
+5VALW	5V always on power rail	ON	ON	ON*
+5VS	5V switched power rail	ON	OFF	OFF
+VSB	VSB always on power rail	ON	ON	ON*
+RTCVCC	RTC power	ON	ON	ON

Note : ON\* means that this power plane is ON only with AC power available, otherwise it is OFF.

STATE	SIGNAL		SLP_S3#	SLP_S4#	SLP_S5#	+VALW	+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 / SKU ID Table for AD channel

Vcc	3.3V +/- 5%			
Ra	100K +/- 5%			
Board ID	Rb	VAD_BID min	VAD_BID typ	VAD_BID max
0	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 , 0.3
2	
3	
4	
5	
6	
7	1.0

BTO Option Table

Default Item	BOM Structure
	A01@
	mini2@
	385@
V	1394@
	Amic@
V	Dmic@

EC SM Bus1 address

Device	Address	Device	Address
Smart Battery	0001 011X b	BMC1402	1001 100X b

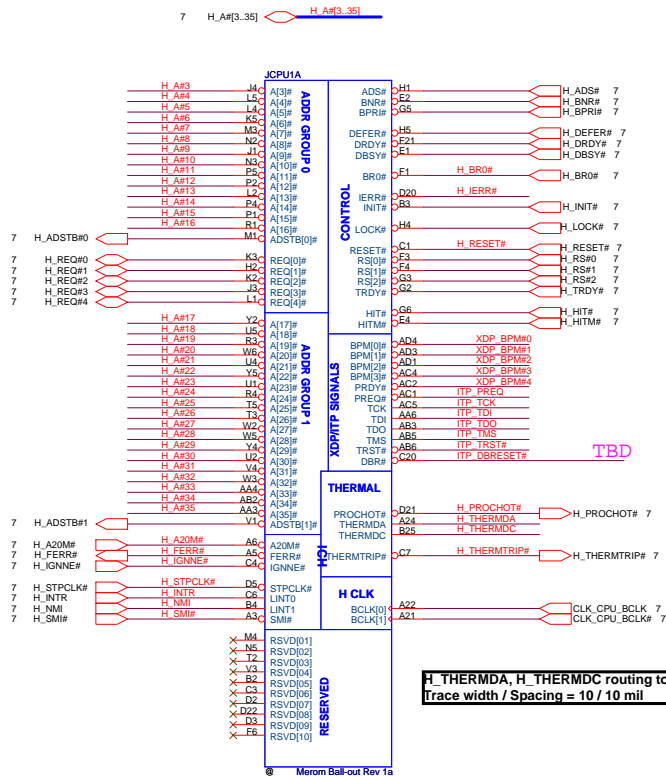
EC SM Bus2 address

MCP79  
SM Bus 0 address

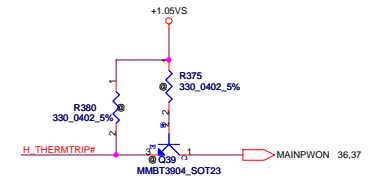
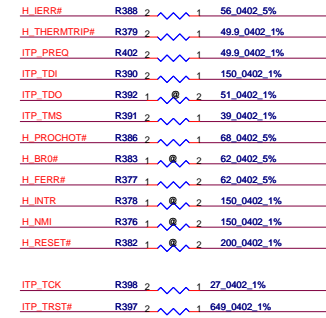
Device	Address	Device	Address
New card		DDR DIMM0	1010 0000
Lan		DDR DIMM1	1010 0010
Minicard			
Minicard			

MCP79  
SM Bus 1 address

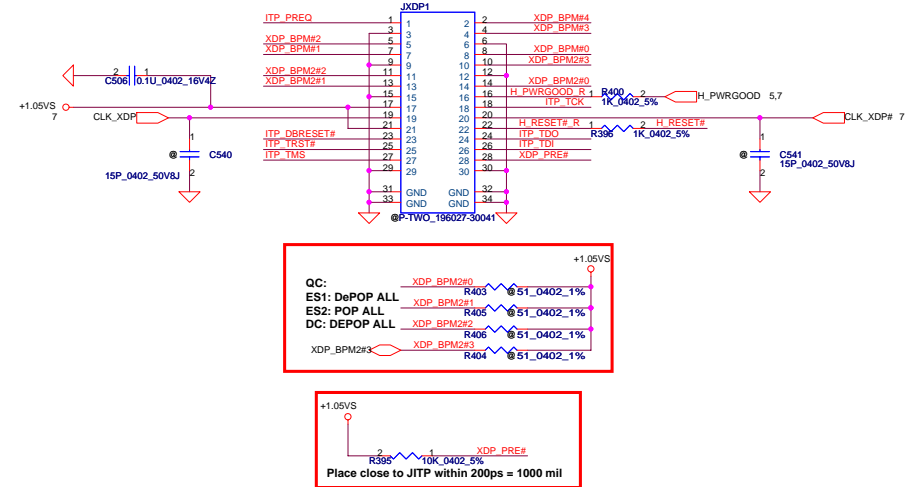
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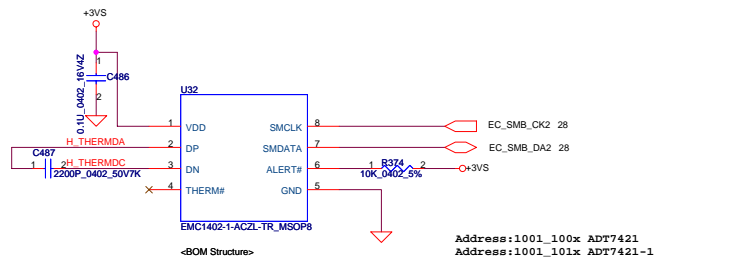
Place close to CPU within 500mil



## XDP Connector



## Thermal Sensor SMSC EMC1402(Main)

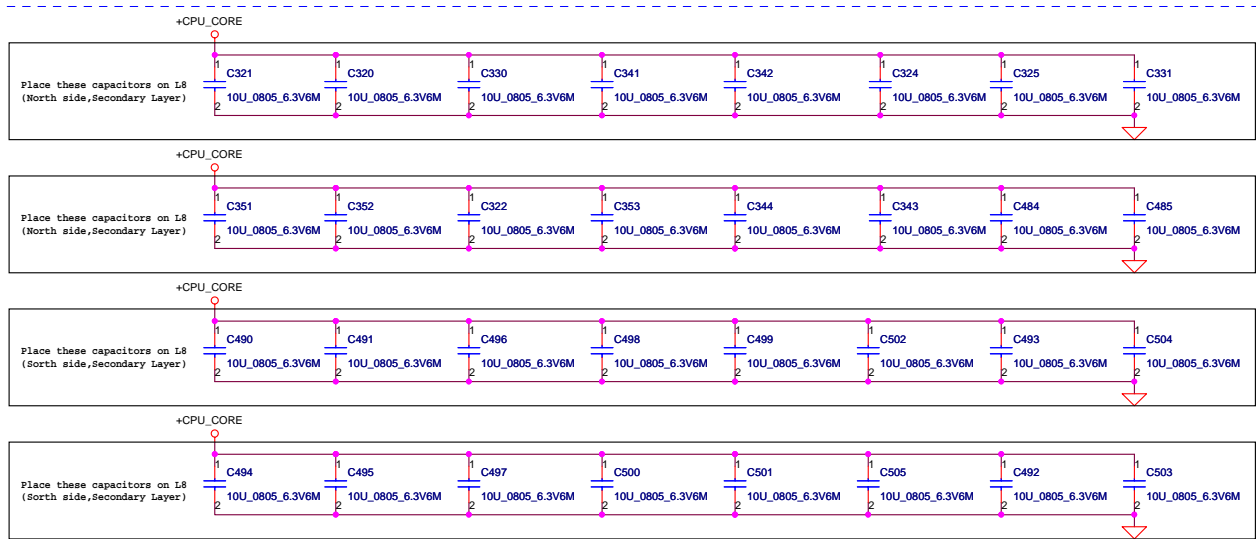
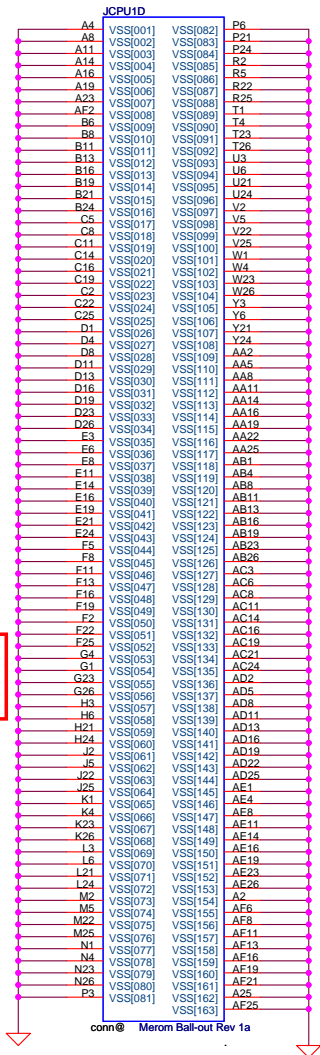


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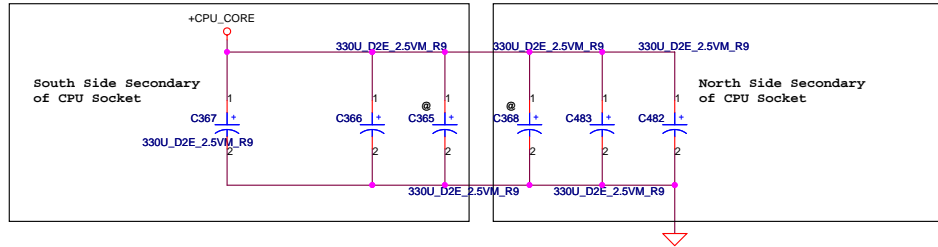


Pin F8  
Dual Core: GND (internal)  
Quad Core: Floating (internal)

Pin D8,AA8,AC8 and AE8  
Reserved for QC

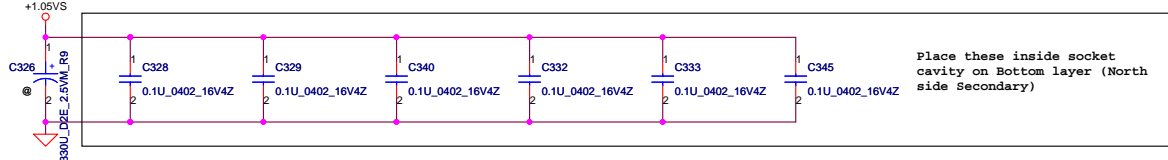


Mid Frequency Decoupling

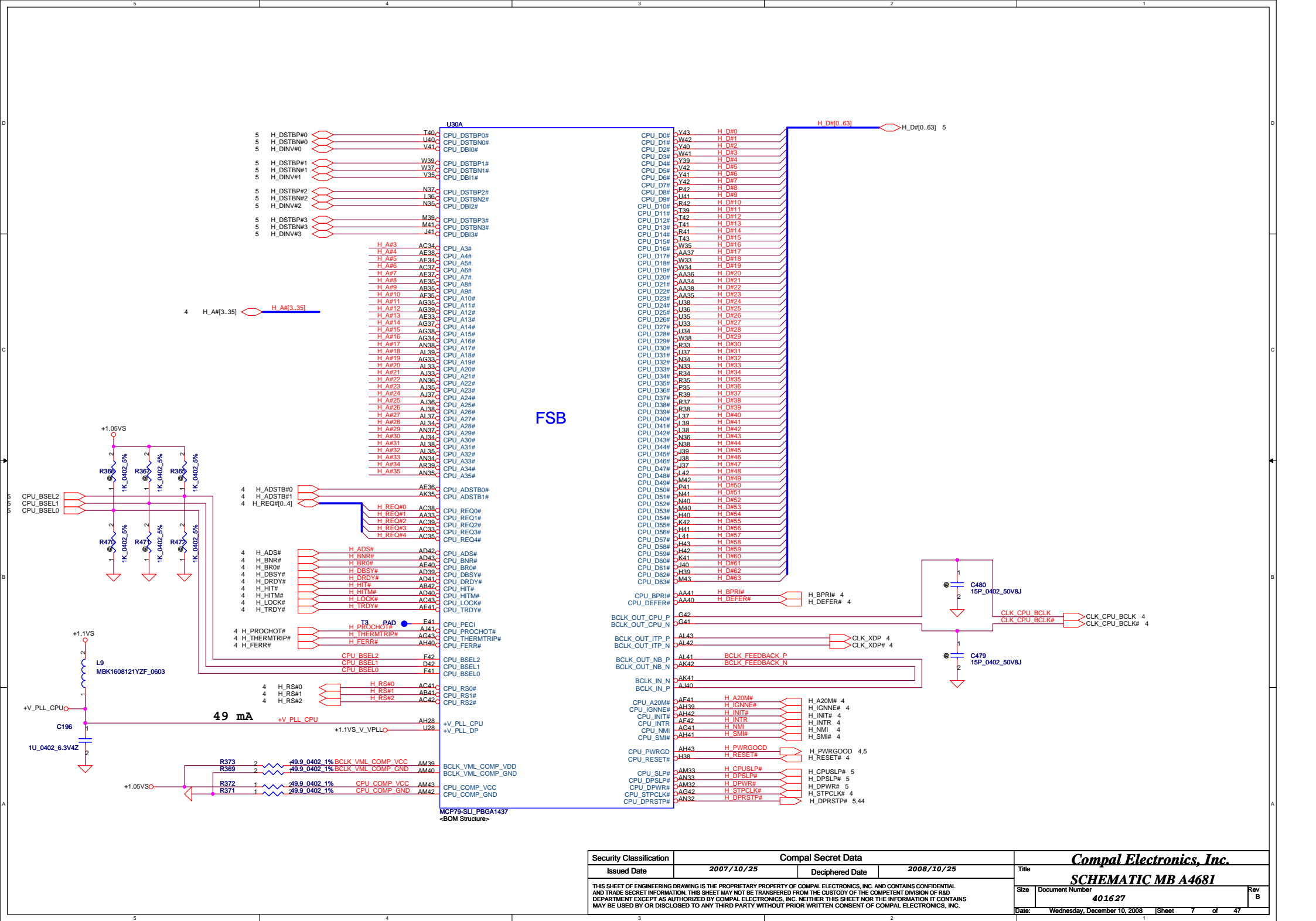


ESR <= 1.5m ohm  
Capacitor > 1980uF

330uF ESR 7m ohm X 6 PCS



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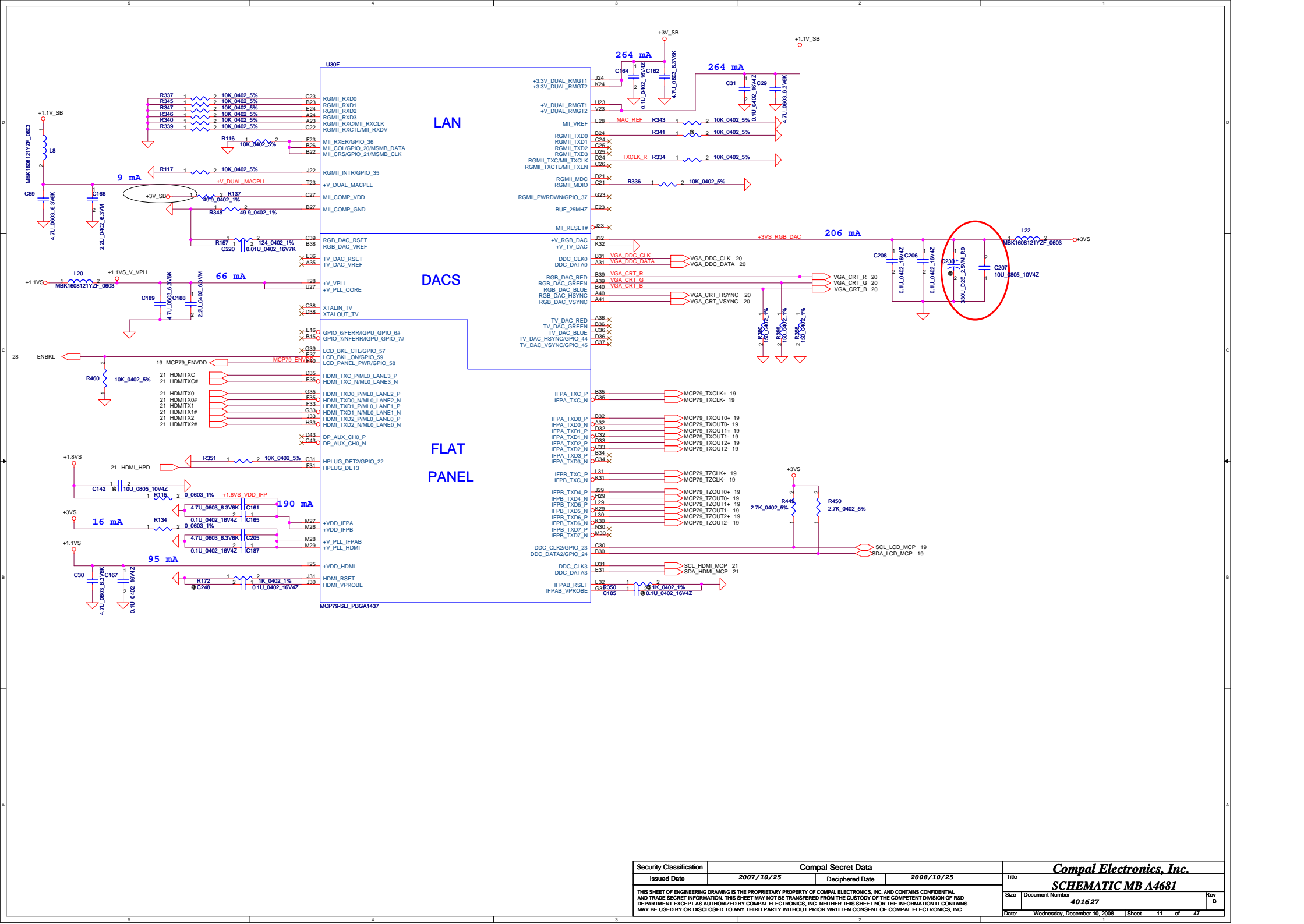


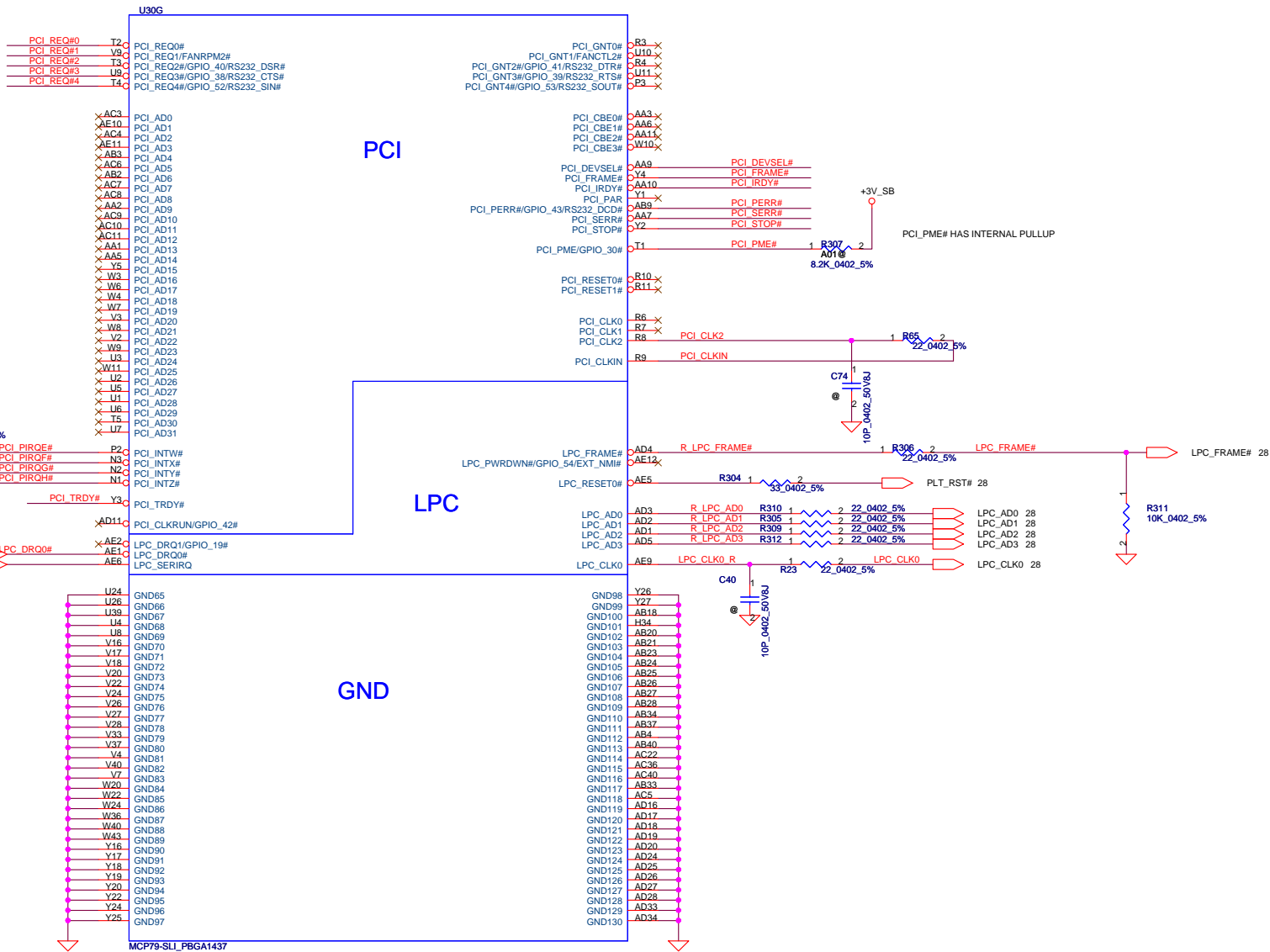
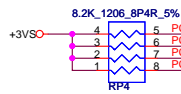
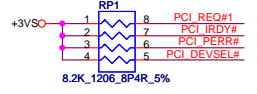
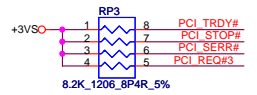
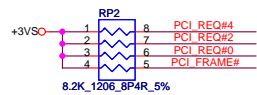
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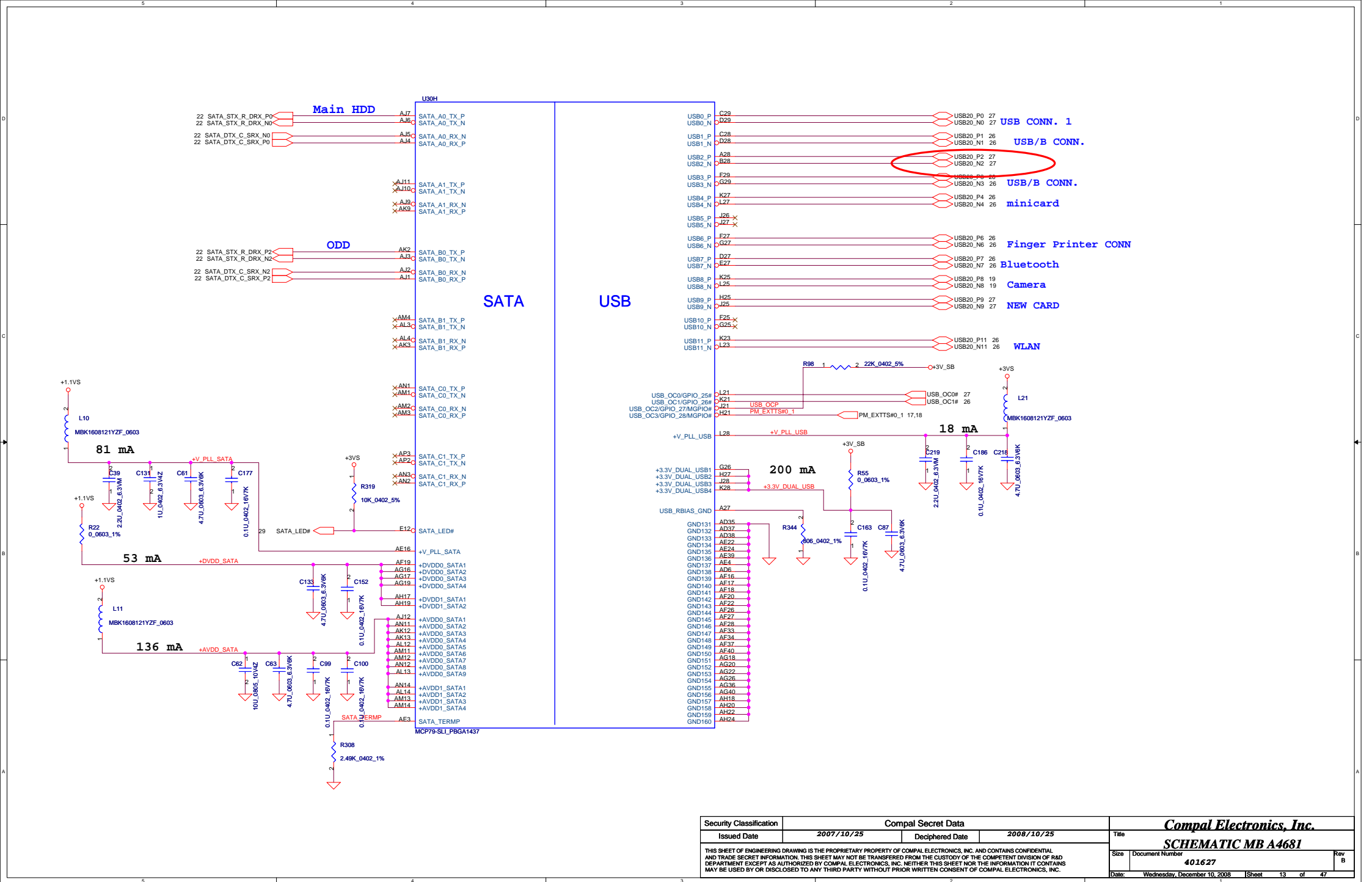




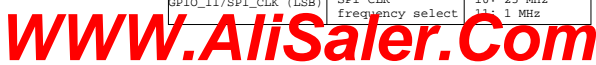




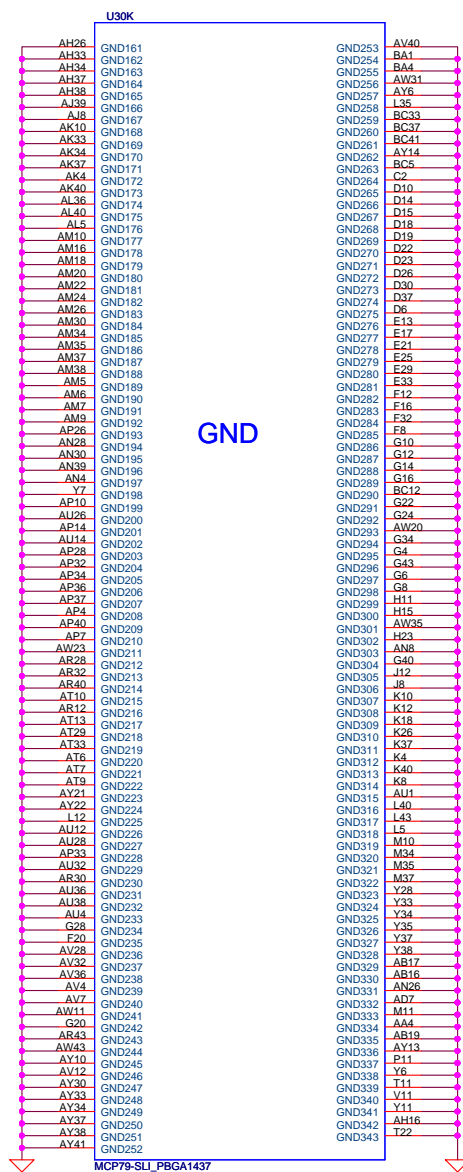
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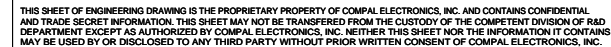
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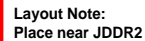




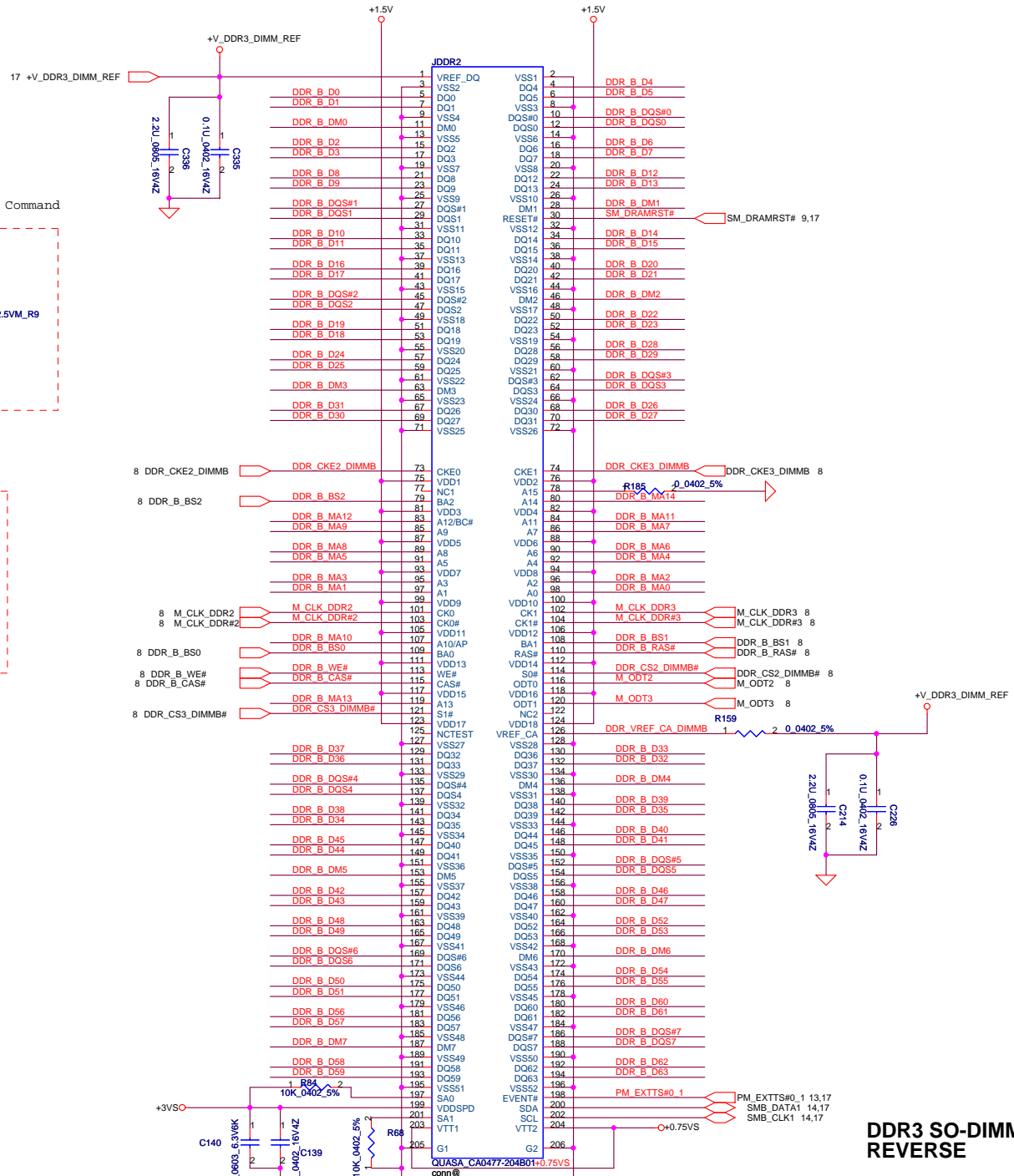
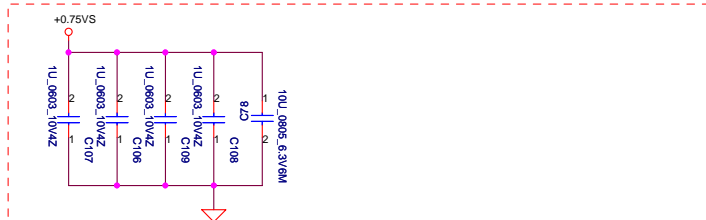








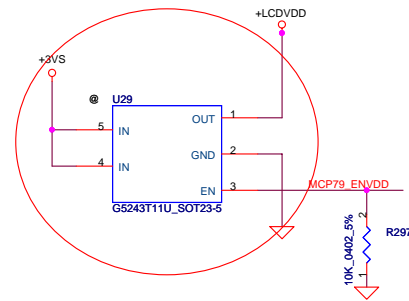
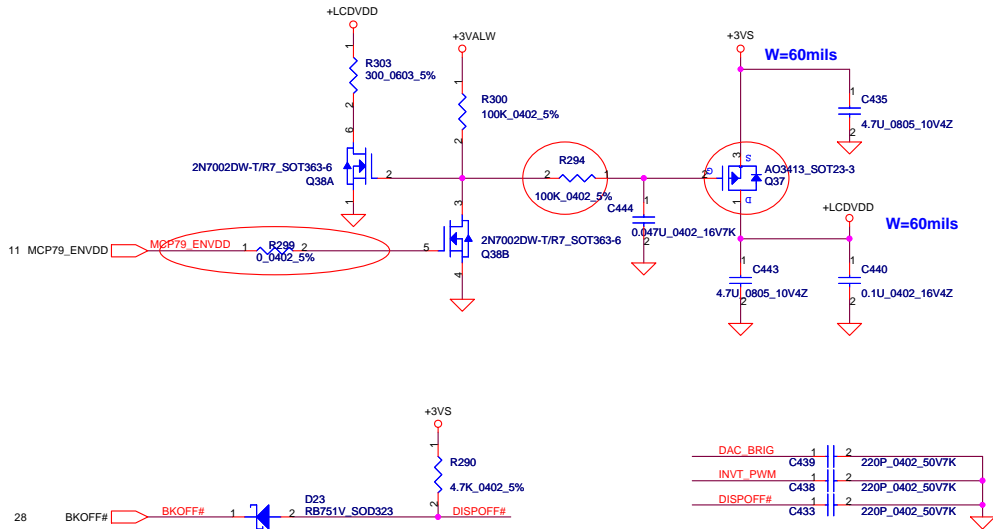
The diagram shows a 10-stage RC ladder network. The input is a +1.5V source connected to a 96C23 capacitor. The ladder consists of 10 stages, each with a series capacitor (C232 to C241) and a shunt resistor (R23 to R40). The final output is connected to a 330U\_D2E\_2.5VM\_R9 capacitor. A blue box highlights the first four stages of the ladder.



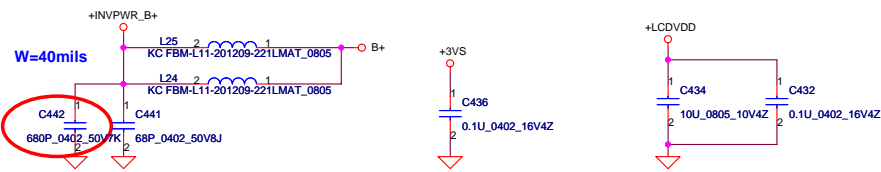
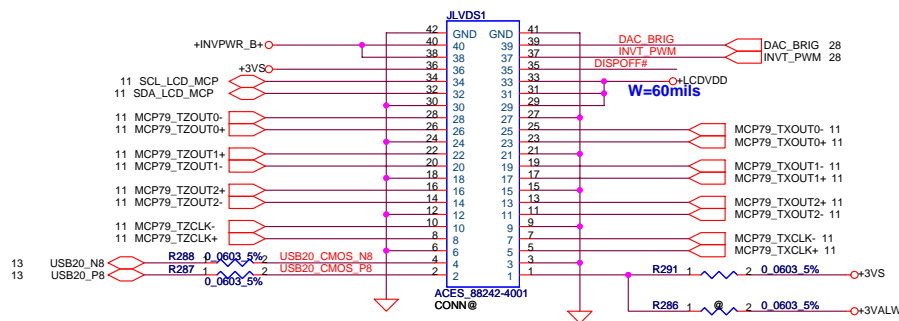
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## LCD POWER CIRCUIT



## LCD/PANEL BD. Conn.

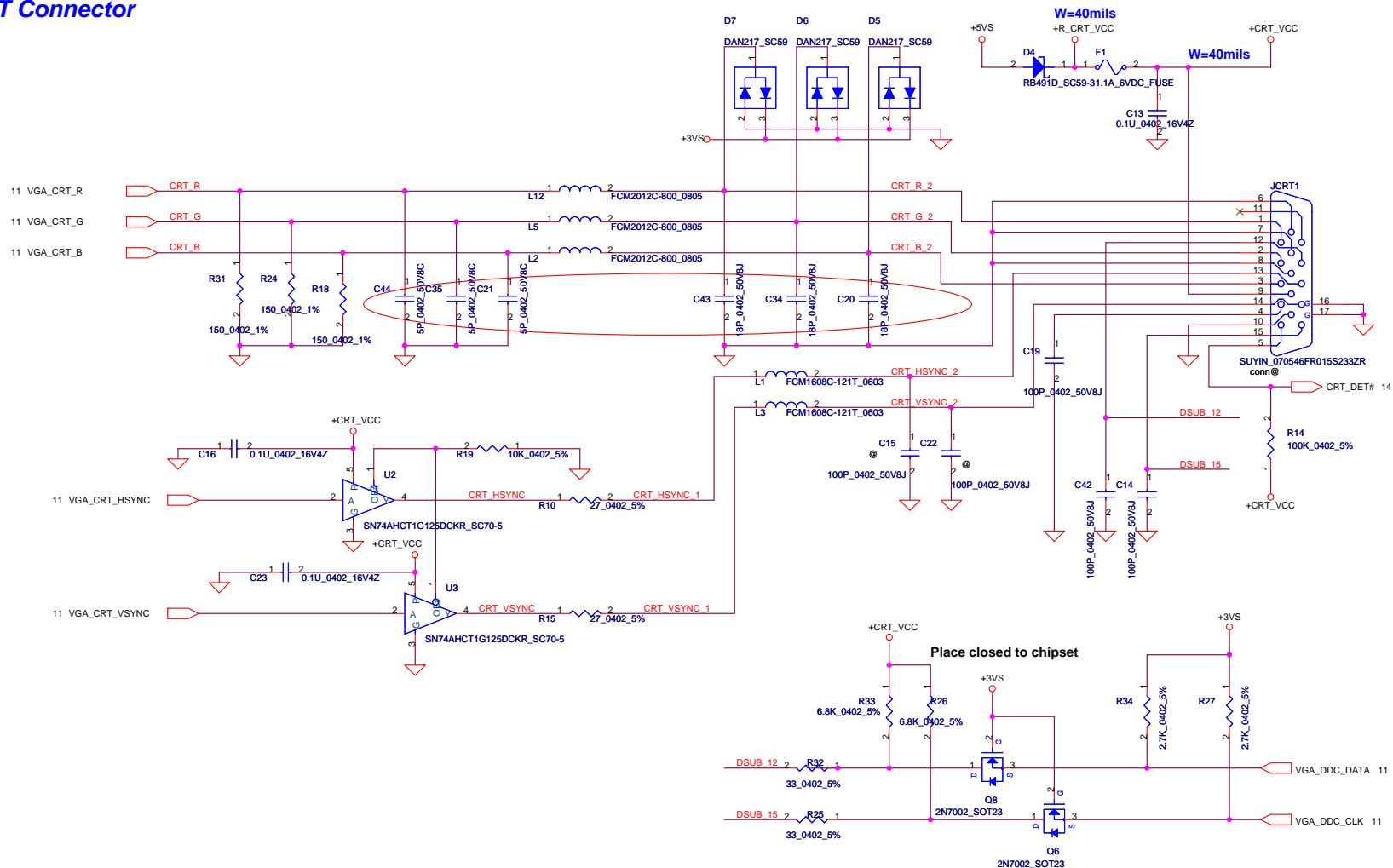


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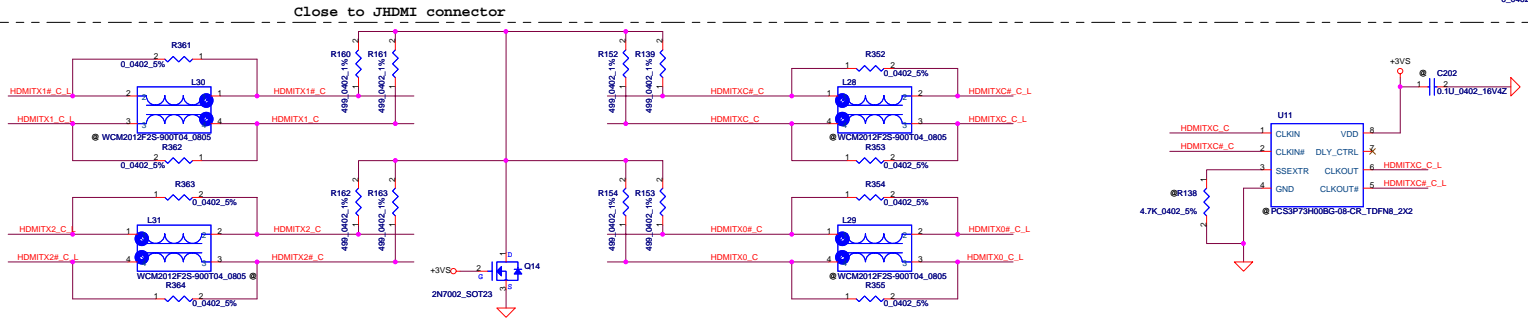
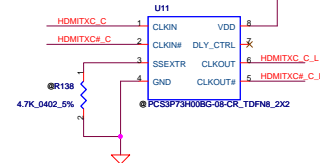
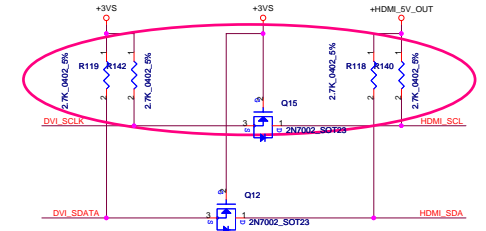
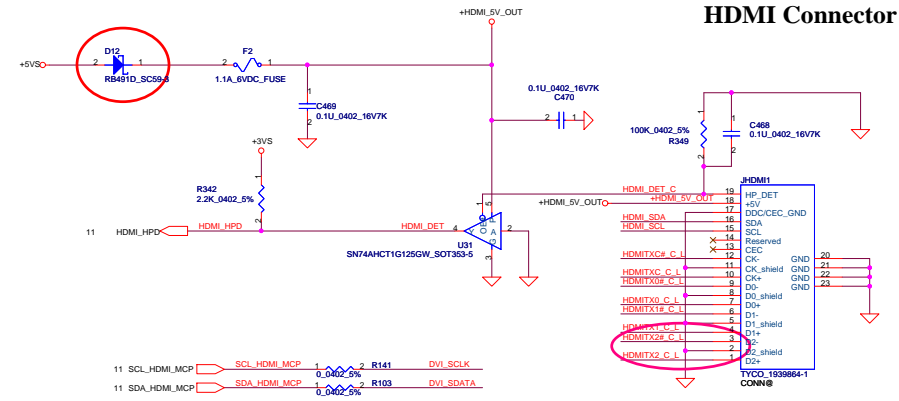
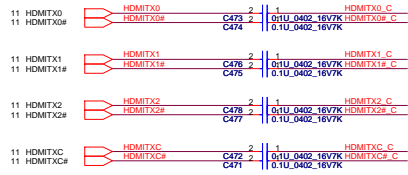
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# CRT Connector



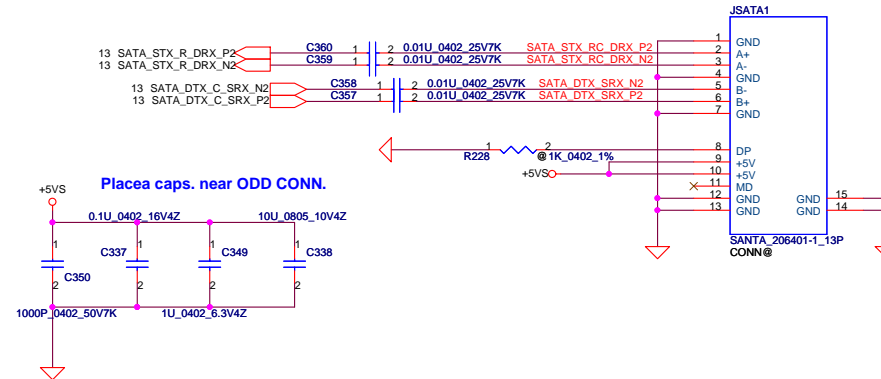
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## HDMI Connector

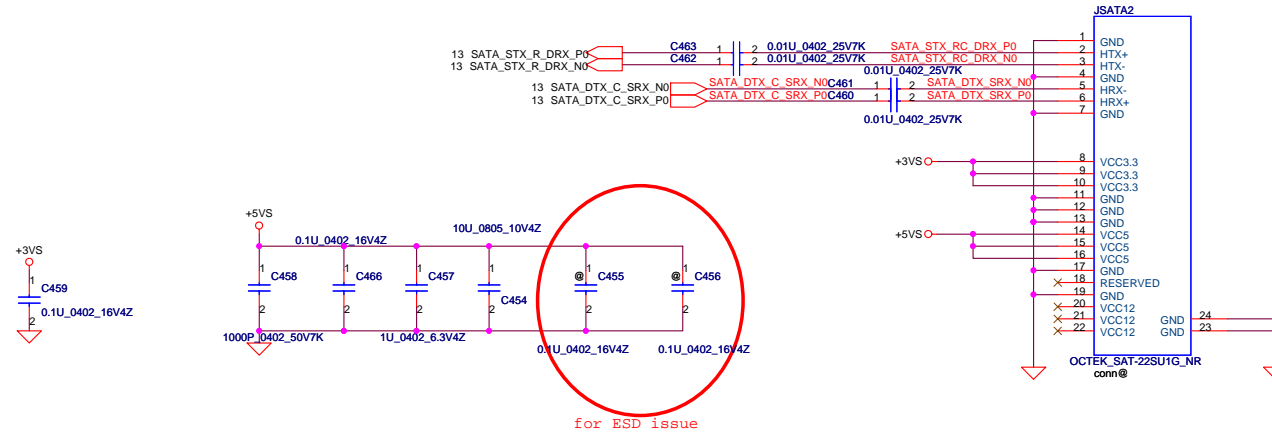


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## SATA ODD Conn.

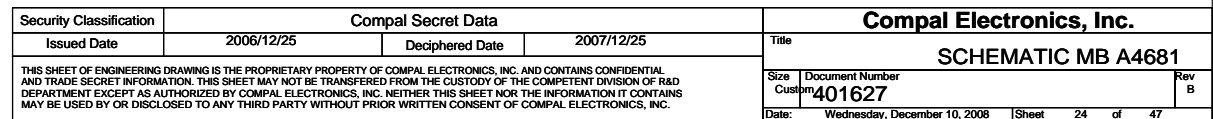
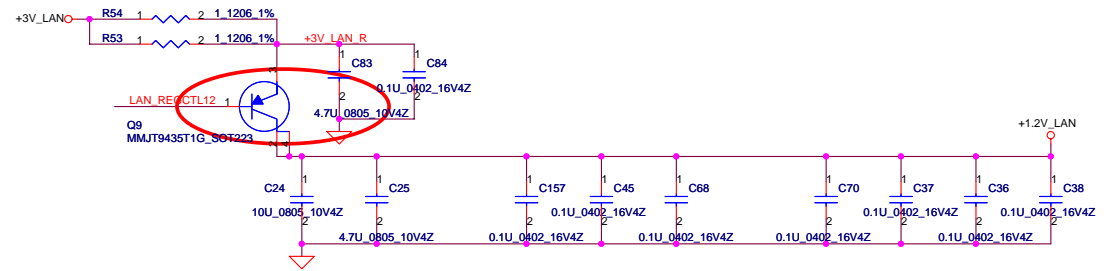


## SATA HDD Conn.



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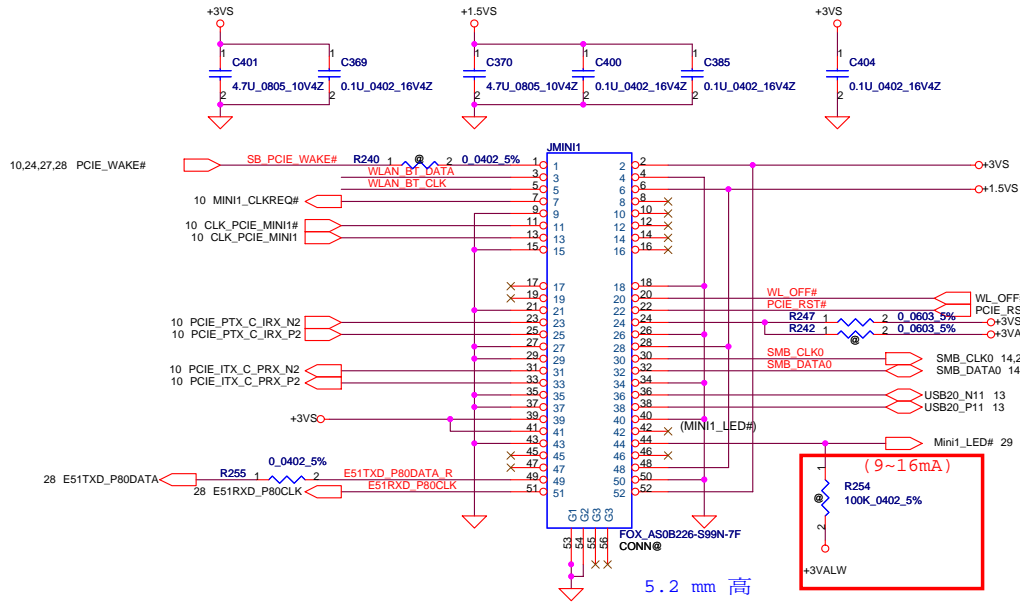




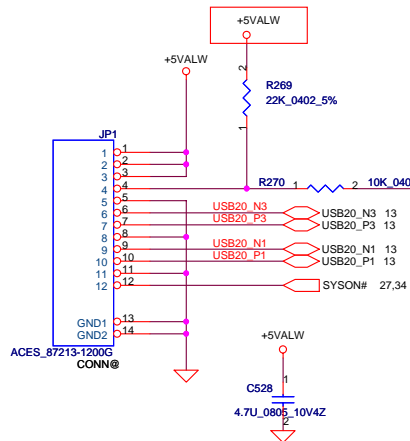




## For Wireless LAN

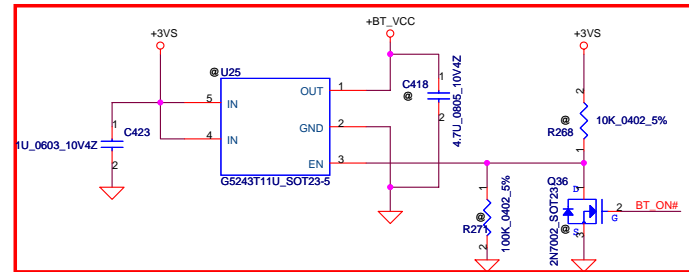
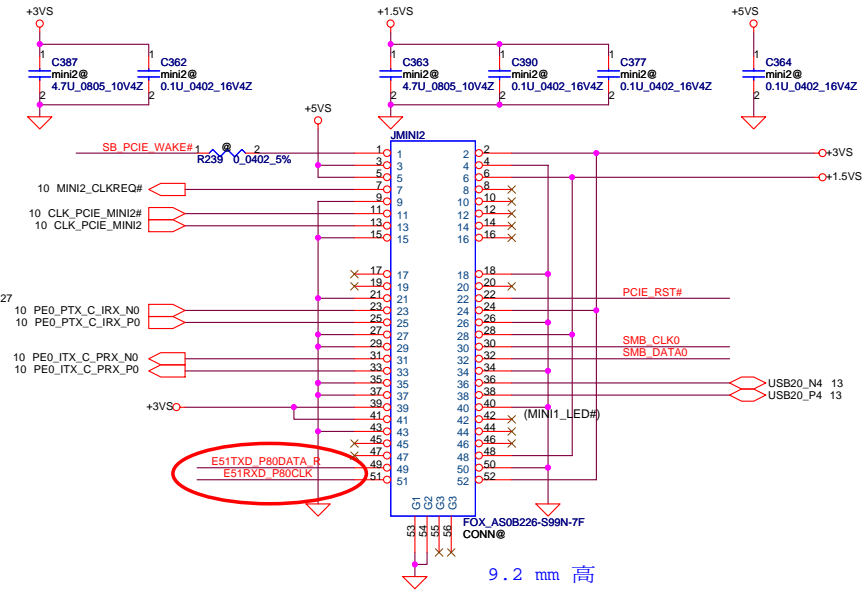


Mini Card Power Rating			
Power	Primary Power (mA)	Auxiliary Power (mA)	
	Peak	Normal	Normal
+3VS	1000	750	
+3V	330	250	250 (wake enable)
+1.5VS	500	375	5 (Not wake enable)

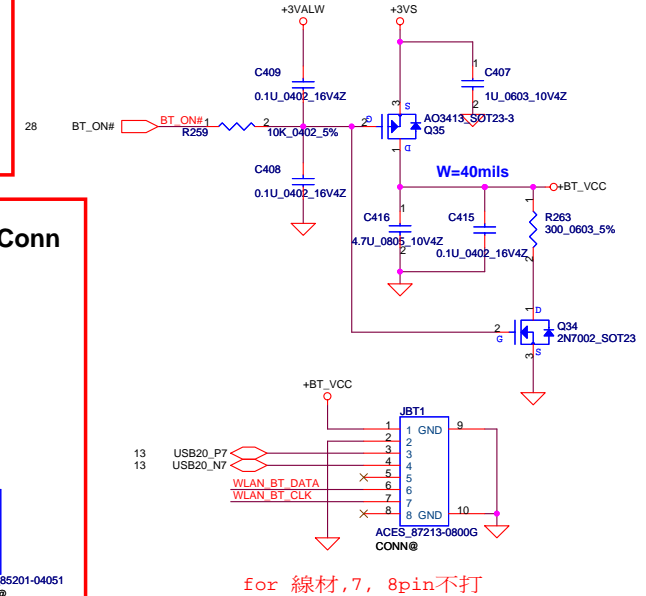


To USB/B Connector

## For TV-Tuner/HW MPEG

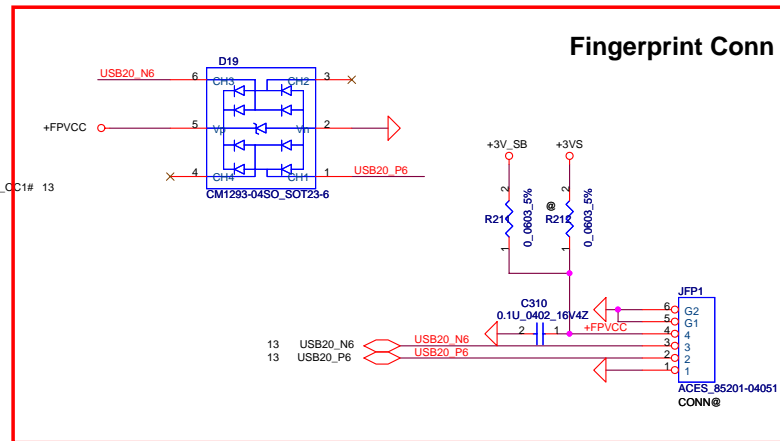


## Bluetooth Conn.



for 線材, 7, 8pin不打

## Fingerprint Conn



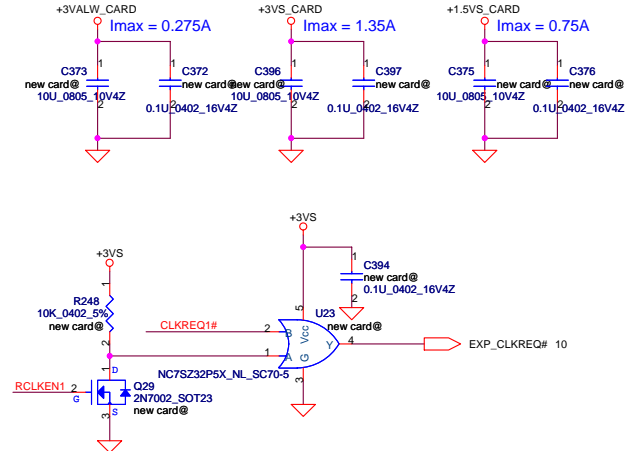
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13 USB20\_N9  
13 USB20\_P9

14,26 SMB\_CLK0  
14,26 SMB\_DATA0  
+1.5V\_CARD

10,24,26,28 PCIE\_WAKE#  
+3VALW\_CARD

+3VS\_CARD

10 CP\_PE#  
10 CLK\_PCIE\_CARD#  
10 CLK\_PCIE\_CARD

10 PCIE\_PTX\_C\_IRX\_N3  
10 PCIE\_PTX\_C\_IRX\_P3

10 PCIE\_ITX\_C\_PRX\_N3  
10 PCIE\_ITX\_C\_PRX\_P3

1 GND  
2 USB\_D-  
3 USB\_D+  
4 CPUSB#  
5 RSV  
6 RSV  
7 SMB\_CLK  
8 SMB\_DATA  
9 +1.5V  
10 +1.5V  
11 WAKE#  
12 +3.3VALX  
13 PERST#  
14 +3.3V  
15 CLKREQ#  
16 CPPE#  
17 REFCLK-  
18 REFCLK+  
19 GND  
20 PERN0  
21 PERP0  
22 GND  
23 PETN0  
24 PETP0  
25 GND  
26 GND  
27 GND  
28 GND  
29 GND  
30 GND

CP\_USB#

PERST1#

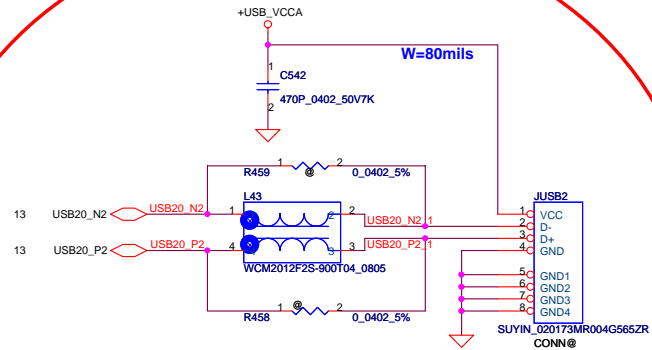
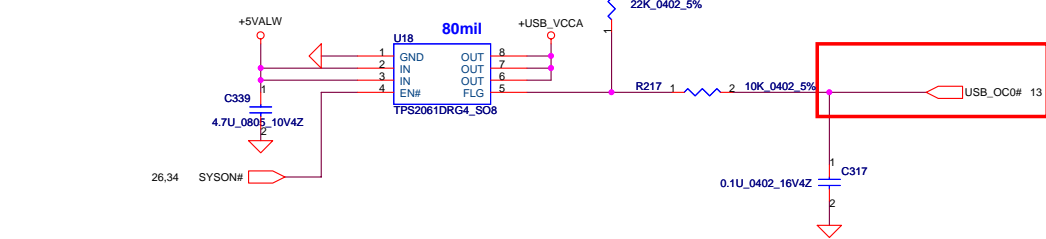
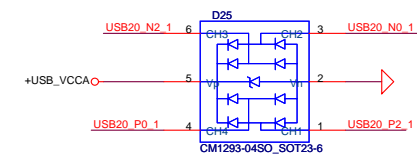
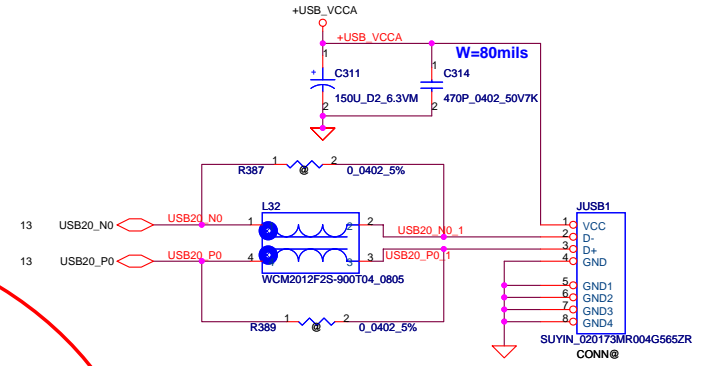
CLKREQ0#

CP PE#

JEXP1

CONN@

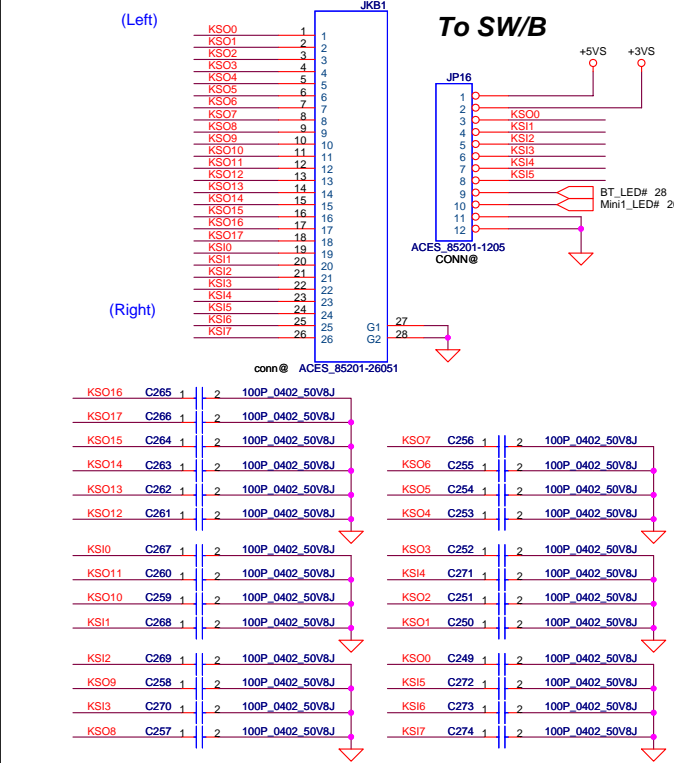
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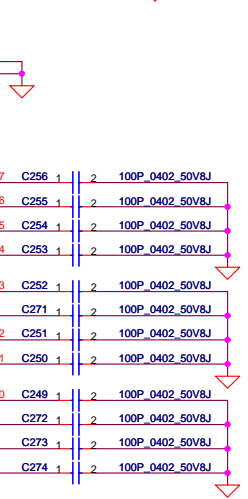
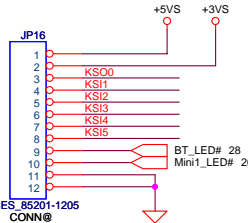
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				401627		
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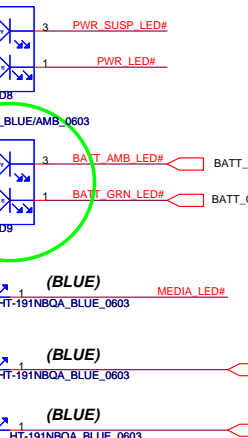
# INT\_KBD Conn.



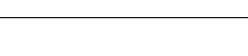
## To SW/B



## HT-297UD/CB\_BLUE/AMB\_0603



## HT-297UD/CB\_BLUE/AMB\_0603



## HT-297UD/CB\_BLUE/AMB\_0603



## HT-297UD/CB\_BLUE/AMB\_0603



## HT-297UD/CB\_BLUE/AMB\_0603



## HT-297UD/CB\_BLUE/AMB\_0603



## HT-297UD/CB\_BLUE/AMB\_0603



## HT-297UD/CB\_BLUE/AMB\_0603



## HT-297UD/CB\_BLUE/AMB\_0603



## HT-297UD/CB\_BLUE/AMB\_0603



## HT-297UD/CB\_BLUE/AMB\_0603



## HT-297UD/CB\_BLUE/AMB\_0603



## HT-297UD/CB\_BLUE/AMB\_0603



## HT-297UD/CB\_BLUE/AMB\_0603



## HT-297UD/CB\_BLUE/AMB\_0603



## HT-297UD/CB\_BLUE/AMB\_0603



## HT-297UD/CB\_BLUE/AMB\_0603



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## HT-297UD/CB\_BLUE/AMB\_0603



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## HT-297UD/CB\_BLUE/AMB\_0603



## HT-297UD/CB\_BLUE/AMB\_0603



## HT-297UD/CB\_BLUE/AMB\_0603



## HT-297UD/CB\_BLUE/AMB\_0603



## HT-297UD/CB\_BLUE/AMB\_0603



## HT-297UD/CB\_BLUE/AMB\_0603



## HT-297UD/CB\_BLUE/AMB\_0603



## HT-297UD/CB\_BLUE/AMB\_0603



## HT-297UD/CB\_BLUE/AMB\_0603



## HT-297UD/CB\_BLUE/AMB\_0603



## HT-297UD/CB\_BLUE/AMB\_0603



## HT-297UD/CB\_BLUE/AMB\_0603



## HT-297UD/CB\_BLUE/AMB\_0603



## HT-297UD/CB\_BLUE/AMB\_0603



## HT-297UD/CB\_BLUE/AMB\_0603



## HT-297UD/CB\_BLUE/AMB\_0603



## HT-297UD/CB\_BLUE/AMB\_0603



## HT-297UD/CB\_BLUE/AMB\_0603



## HT-297UD/CB\_BLUE/AMB\_0603



## HT-297UD/CB\_BLUE/AMB\_0603



## HT-297UD/CB\_BLUE/AMB\_0603



## HT-297UD/CB\_BLUE/AMB\_0603



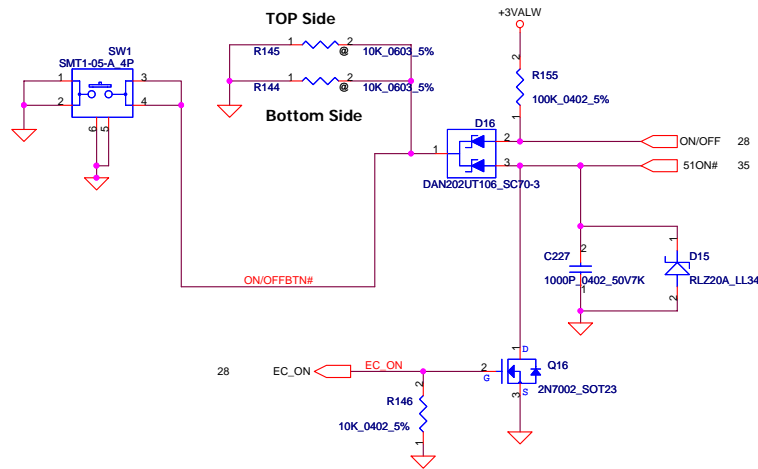
## HT-297UD/CB\_BLUE/AMB\_0603



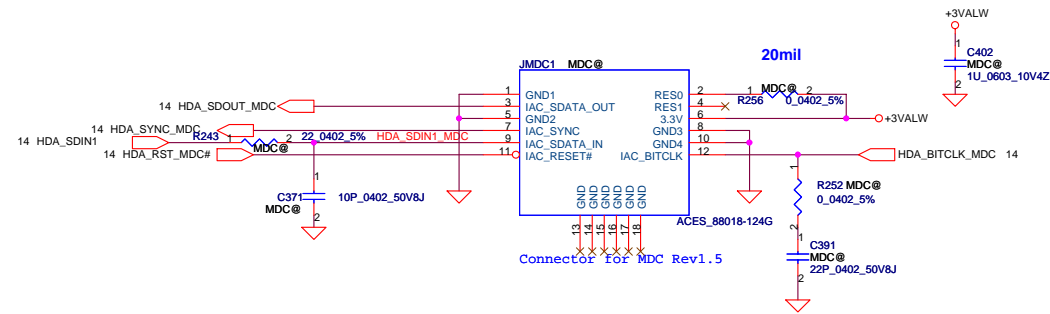
##

## Power Button

ON/OFF switch

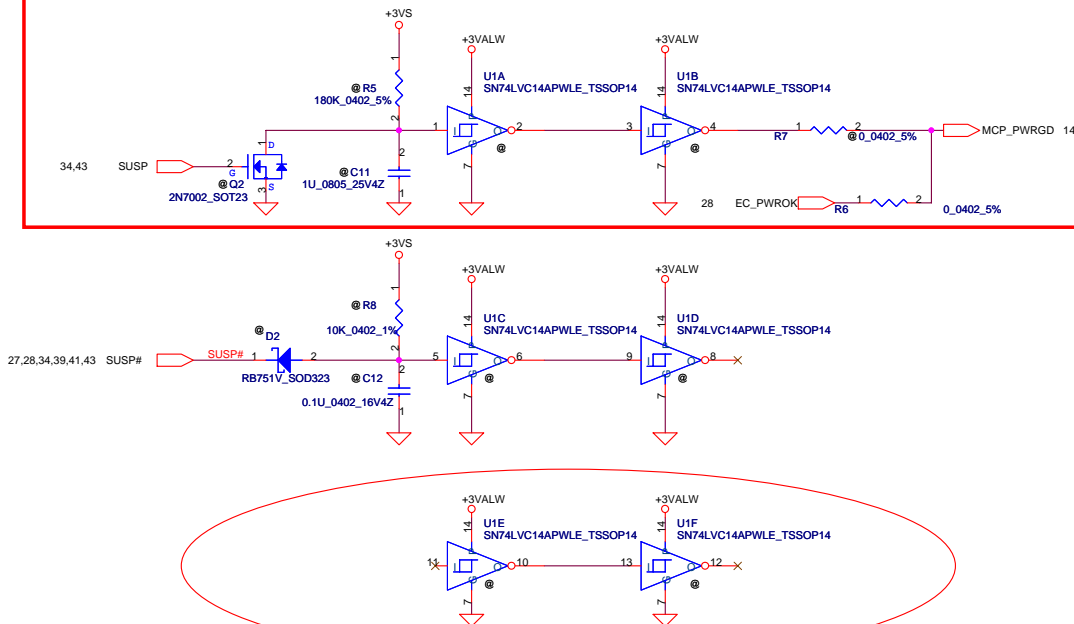


## HDA MDC Conn.

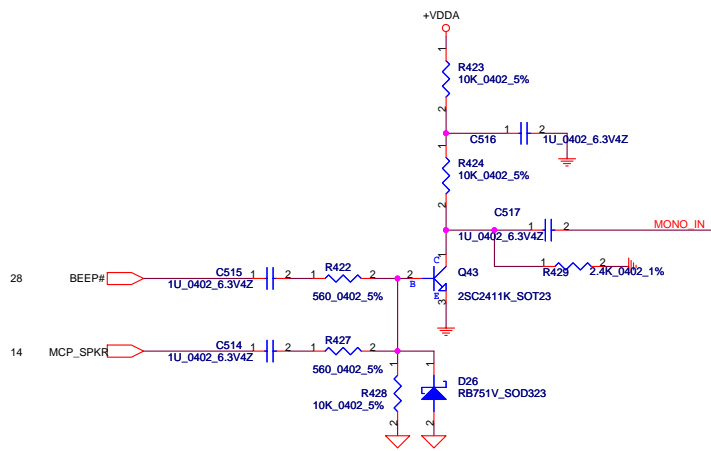


## Power ON Circuit

For South Bridge



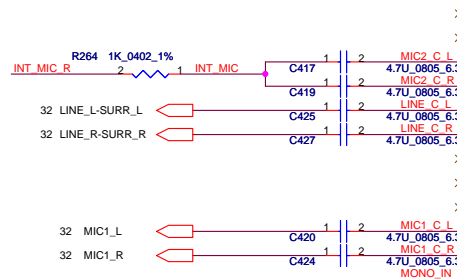
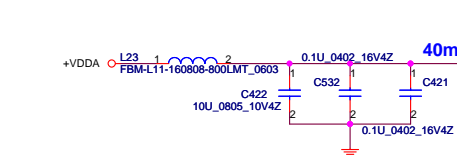
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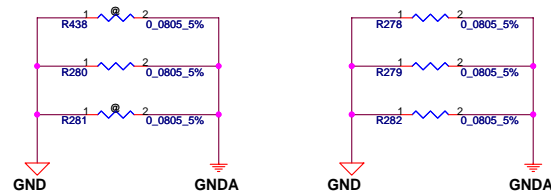
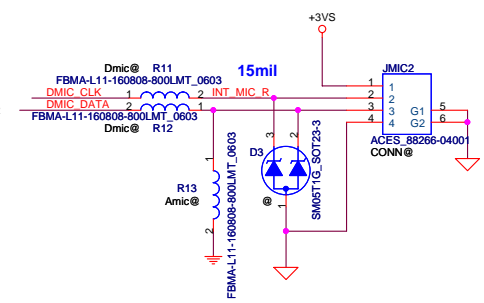
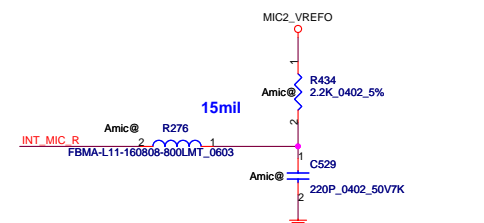
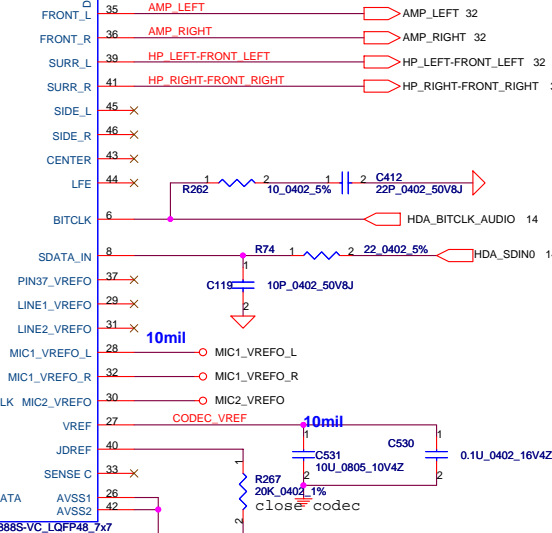
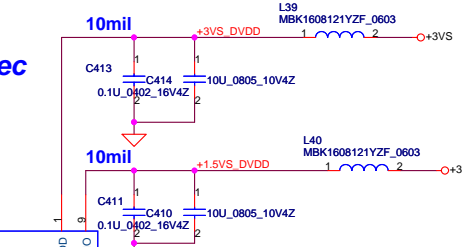
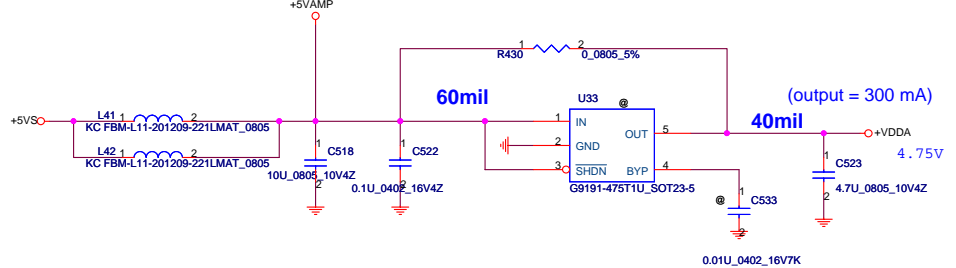
# BOM Option

ALC268	268@
ALC888S-VC	888VC@

# HD Audio Codec



Sense Pin	Impedance	Codec Signals
SENSE A	39.2K	PORT-A (PIN 39, 41)
	20K	PORT-B (PIN 21, 22)
	10K	PORT-C (PIN 23, 24)
	5.1K	PORT-D (PIN 35, 36)
SENSE B	39.2K	PORT-E (PIN 14, 15)
	20K	PORT-F (PIN 16, 17)
	10K	PORT-G (PIN 43, 44)
	5.1K	PORT-H (PIN 45, 46)

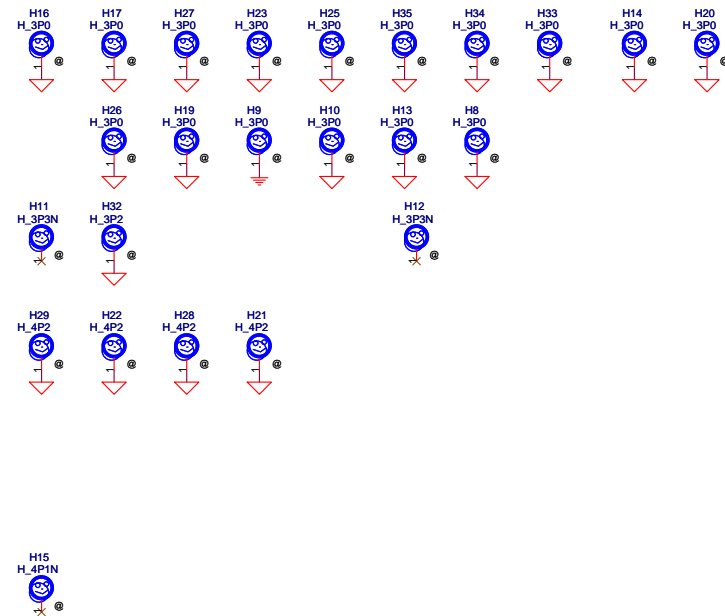


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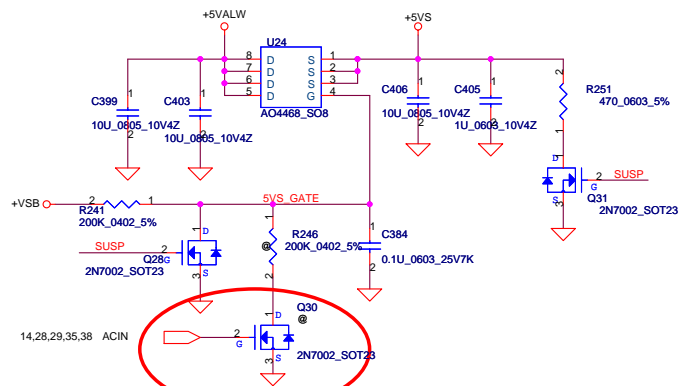


The schematic diagram illustrates the fan control circuit. It features two op-amp comparators, U9 and U10, which are used to compare the fan speed signal (FAN\_SPEED1) against a reference voltage (+VCC\_FAN1) to control the fan (JFAN1). The circuit includes various components such as resistors (R45, R46, R47, R48), capacitors (C111, C112, C155, C110, C79, C80), and diodes (D9, D10). The input signals are EN\_DFAN1 and FAN\_SPEED1. The output is connected to a fan (JFAN1). The circuit is powered by +5V and +3V. A 40mil dimension is indicated for the fan connection.

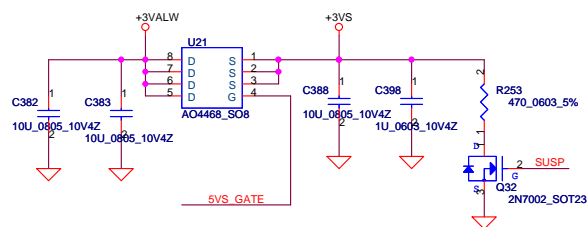


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				Date: Wednesday, December 10, 2008		
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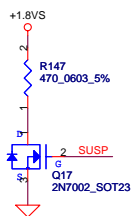
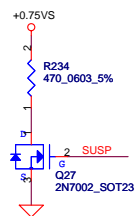
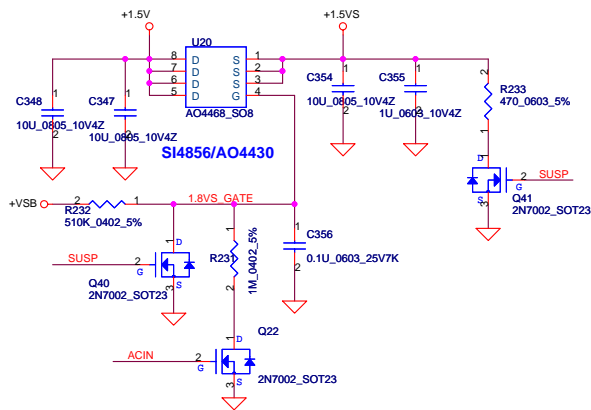
# +5VALW TO +5VS



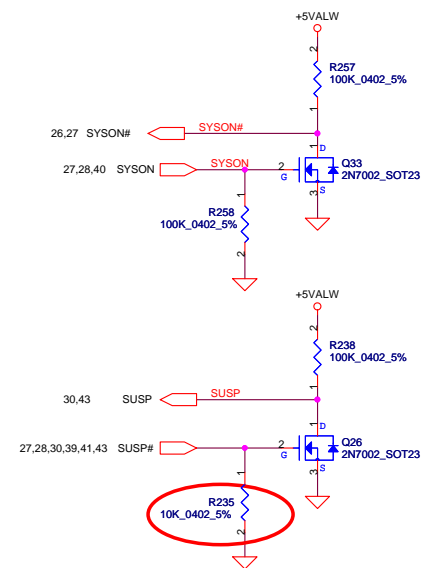
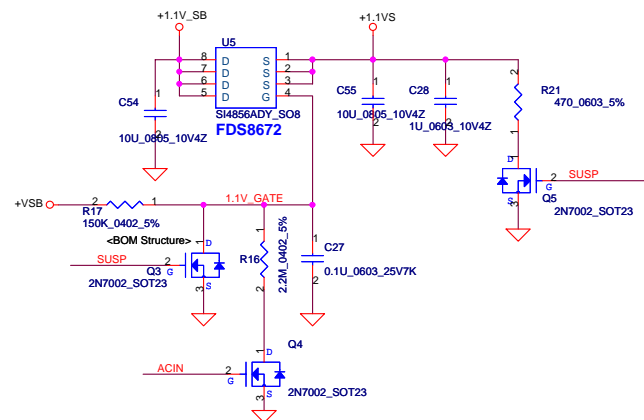
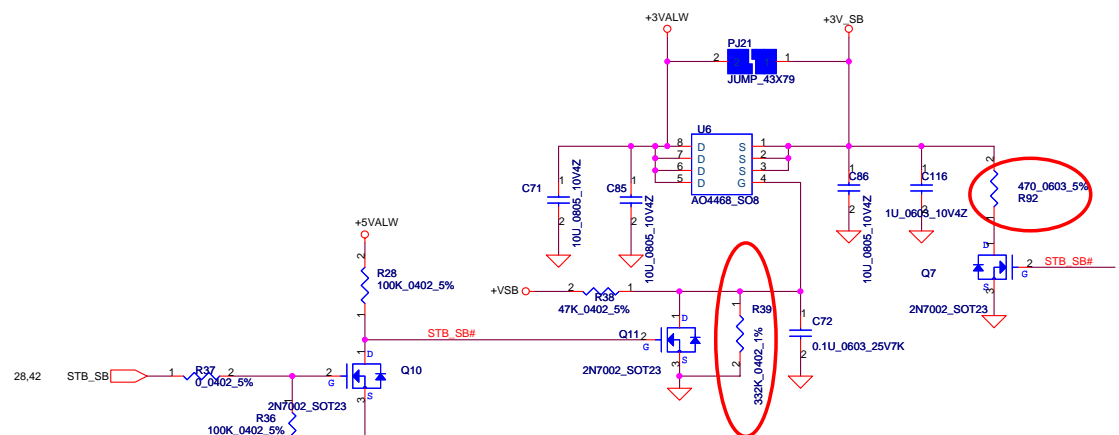
# +3VALW TO +3VS



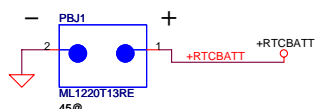
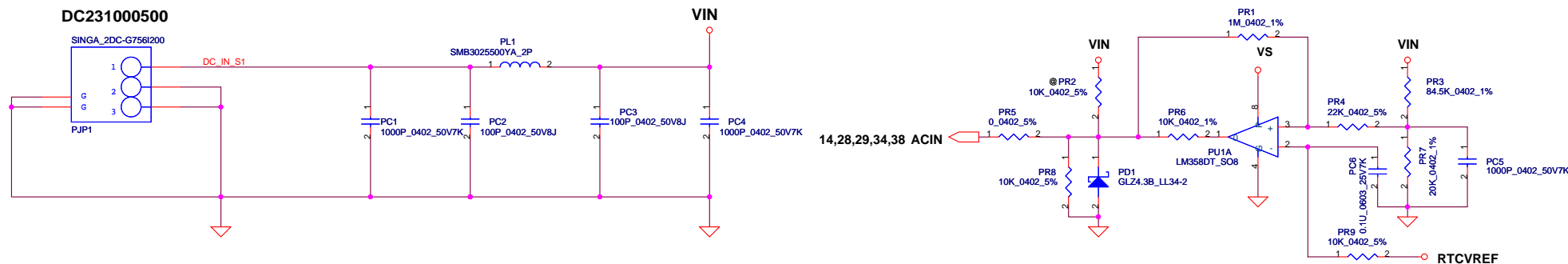
# +1.5V to +1.5VS



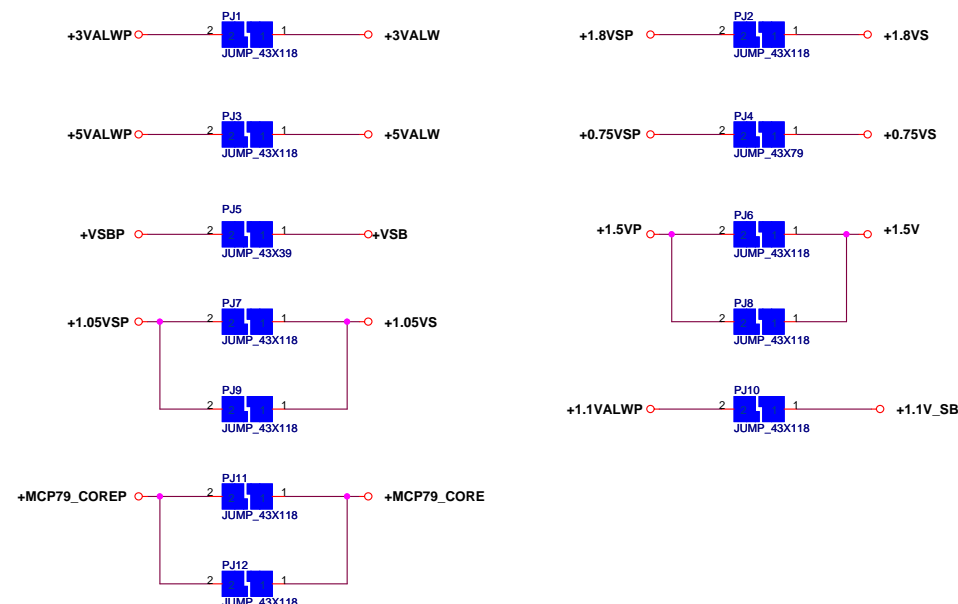
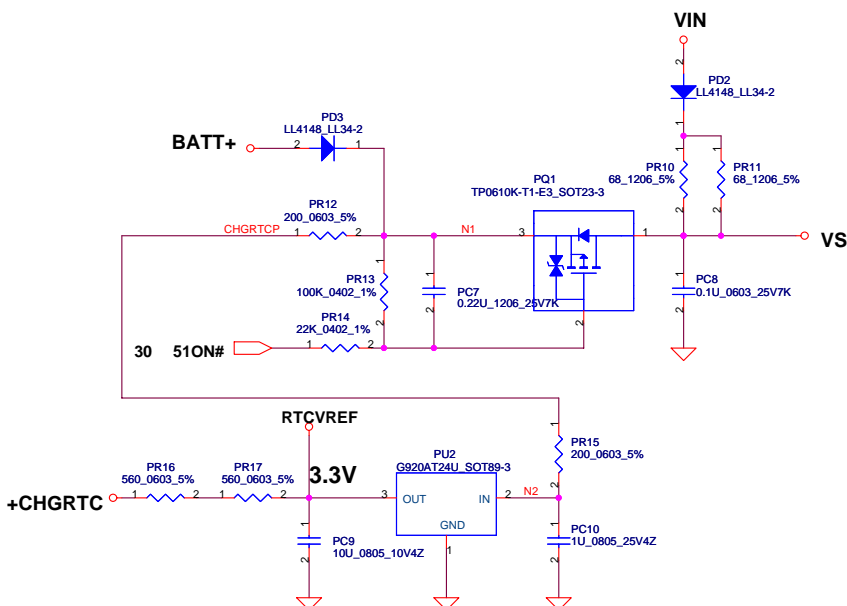
# +3VALW TO +3V\_SB



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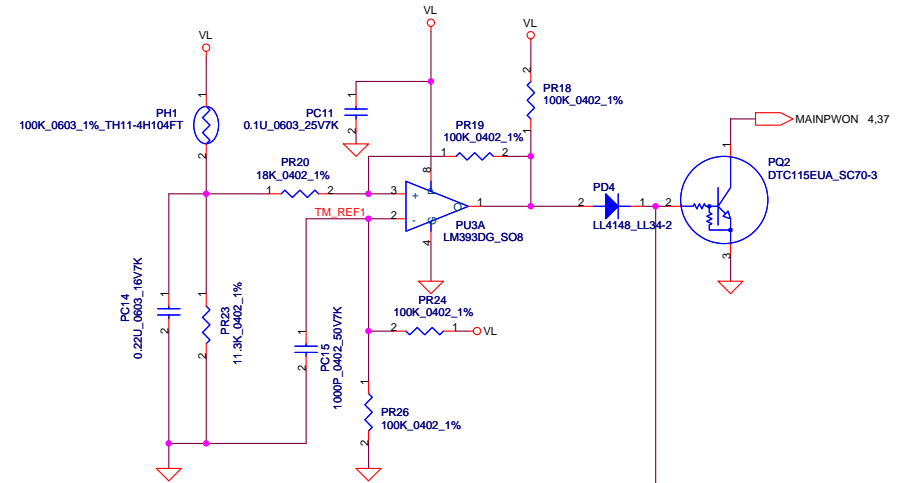
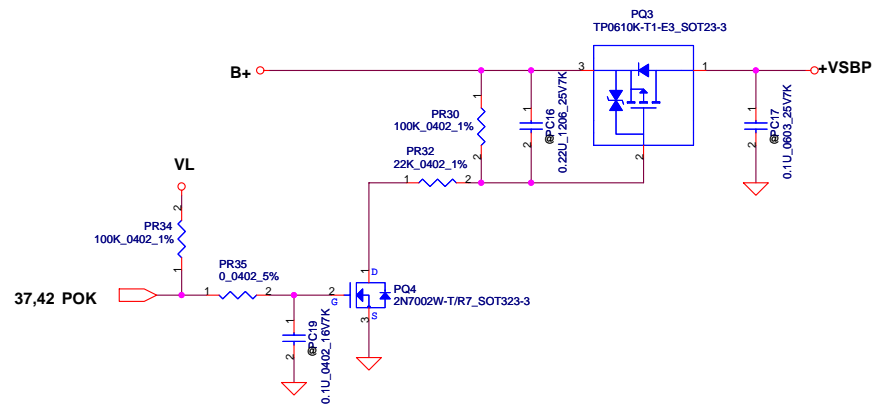


Vin Detector			
	Min.	Typ	Max.
H-->L	16.976V	17.525V	17.728V
L-->H	17.430V	17.901V	18.384V

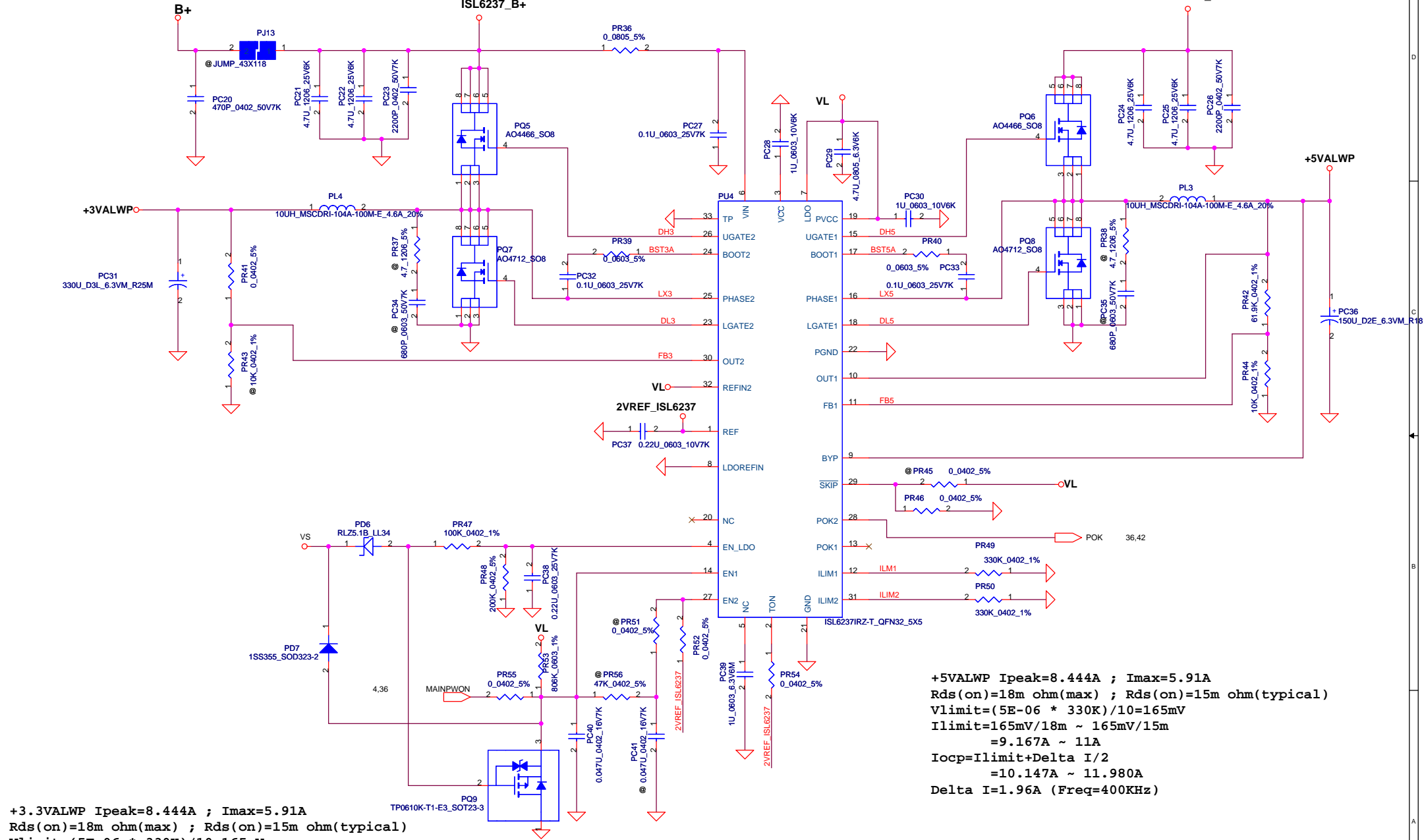


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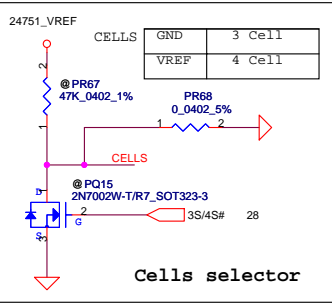
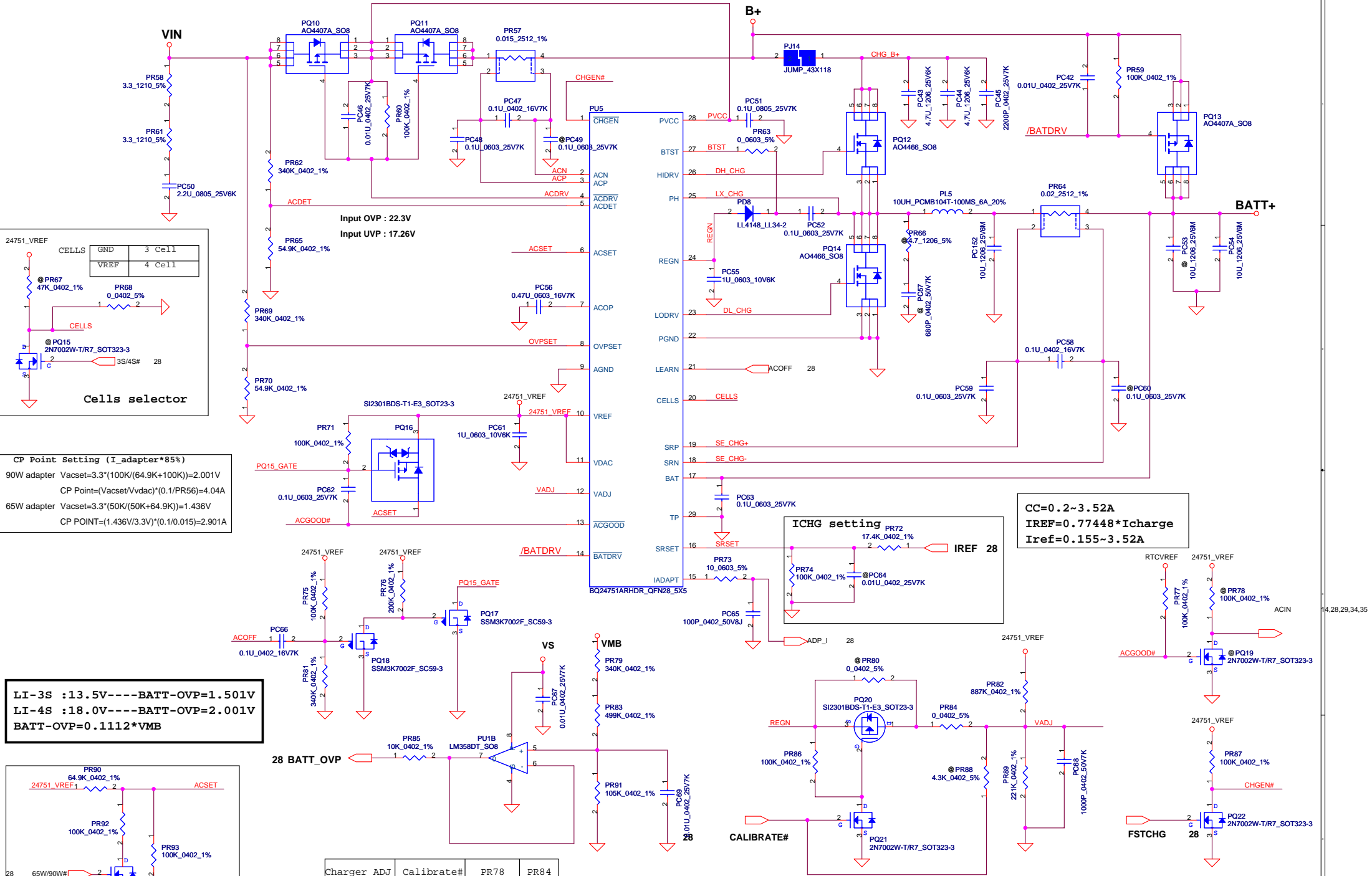
```
CPU thermal protection at 92 degree C
Recovery at 70 degree C
```

[illegible]

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CP Point Setting (I\_adapter\*85%)

90W adapter Vacset=3.3\*(100K/(64.9K+100K))=2.001V

CP Point=(Vacset/Vvdac)\*(0.1/PR56)=4.04A

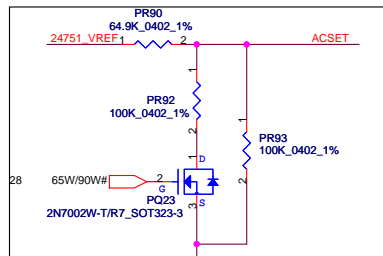
65W adapter Vacset=3.3\*(50K/(50K+64.9K))=1.436V

CP POINT=(1.436V/3.3V)\*(0.1/0.015)=2.901A

LI-3S :13.5V----BATT-OVP=1.501V

LI-4S :18.0V----BATT-OVP=2.001V

BATT-OVP=0.1112\*VMB



Charger ADJ	Calibrate#	PR78	PR84
4.0V	L	@	@
4.1V	L	887K	221K
	H	@	@

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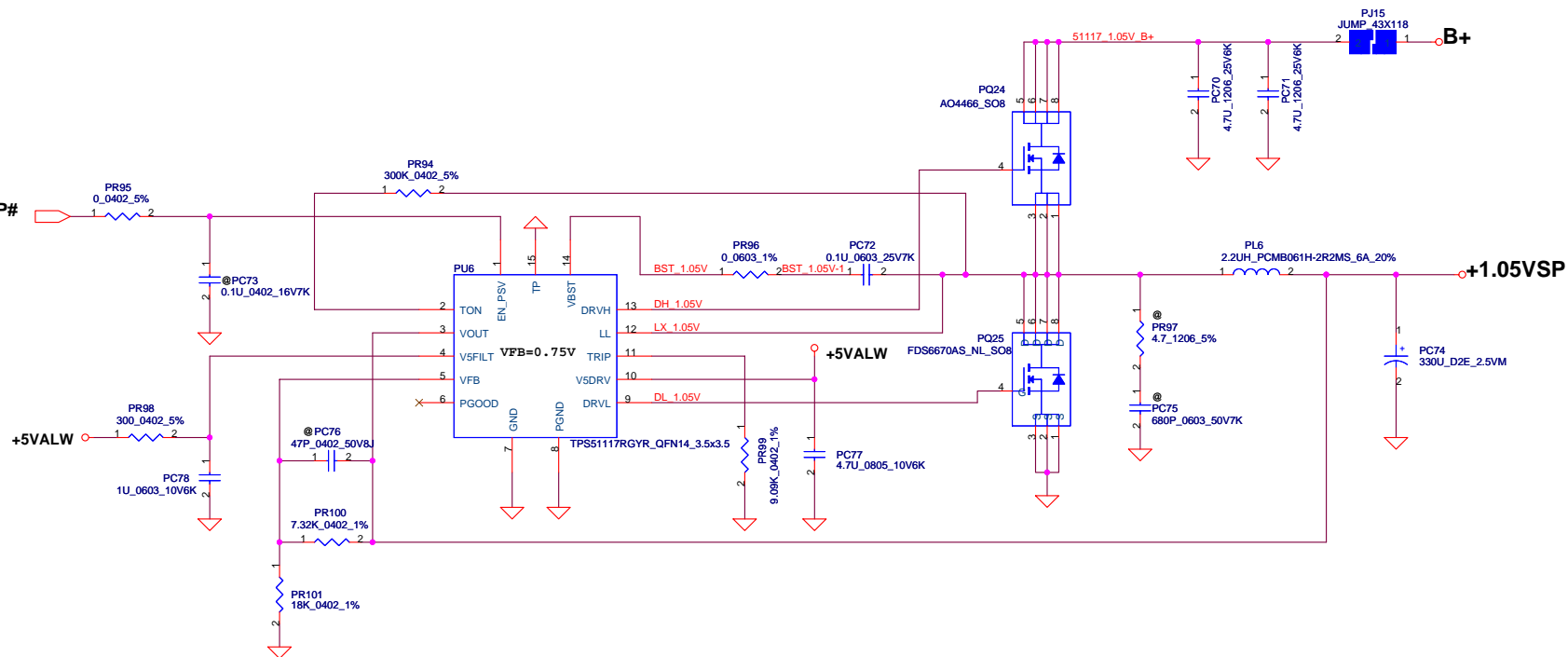
CC=0.2~3.52A

IREF=0.77448\*Icharge

Iref=0.155~3.52A

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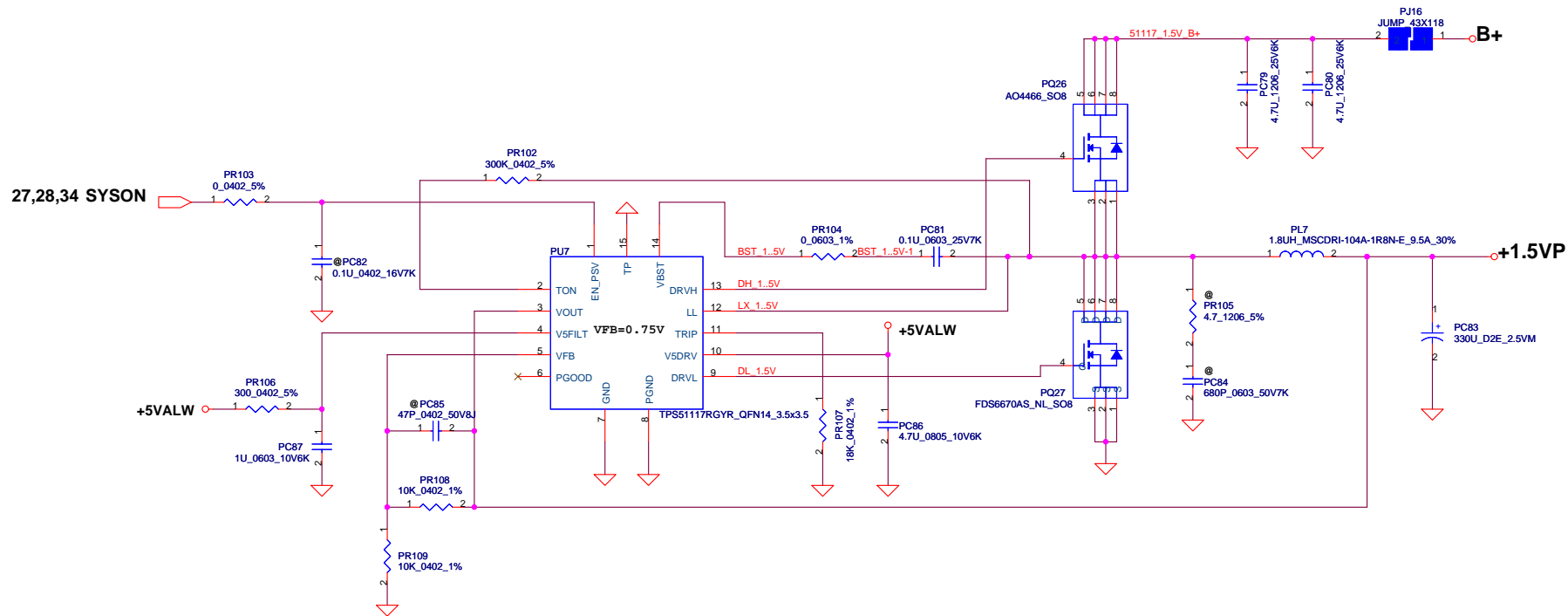
27,28,30,34,41,43 SUSP#



VFB=0.75V  
 $V_o = VFB * (1 + PR100 / PR101) = 1.055V$   
 $F_{sw} = 262KHz$

Cout ESR=15m ohm  
 $R_{dsonmax} = 11.5m \text{ ohm}$ ,  $R_{dson typ} = 9m \text{ ohm}$   
 $I_{peak} = 7.15A$ ,  $I_{max} = 3.5A$   
 $\Delta I = ((19 - 1.05) * (1.05 / 19)) / (L * F_{sw}) = 2.103A$   
 $\Rightarrow 1/2 \Delta I = 1.052A$   
 $V_{trip} = R_{trip} * I_{0uA} = 9.09K * 10uA = 0.0909V$   
 $I_{ocpmin} = V_{trip} / R_{dsonmax} * 1.3 + 1.052A = 7.132A$   
 $I_{ocpmax} = V_{trip} / R_{dson typ} * 1.1 + 1.052A = 10.233A$   
 $I_{ocp} = 7.132A - 10.233A$

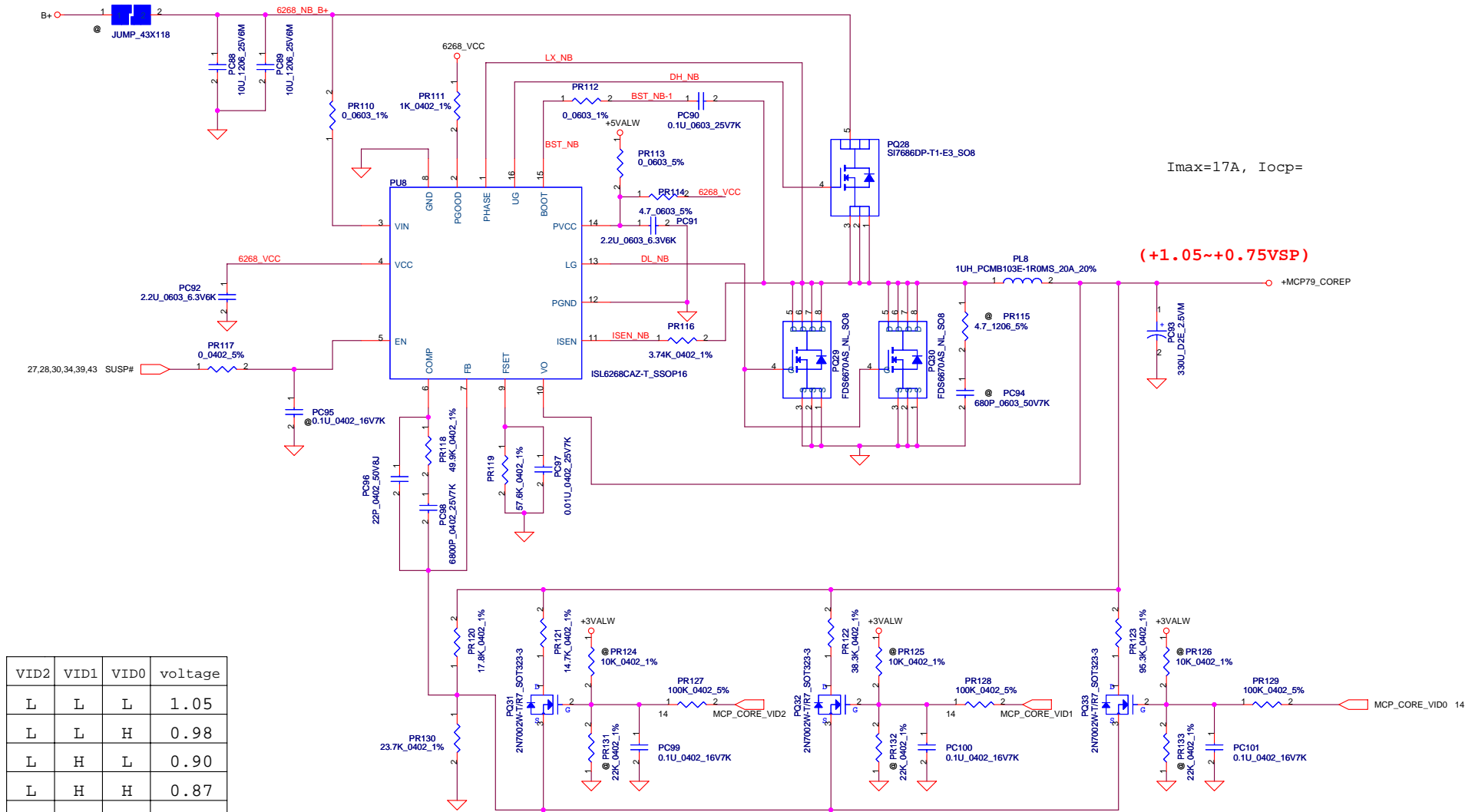
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$V_{FB}=0.75V$   
 $V_O=V_{FB} \cdot (1 + \frac{PR108}{PR109}) = 1.5V$   
 $F_{sw}=262KHz$   
 $C_{out} ESR=15m\ ohm$   
 $R_{dsonmax}=11.5m\ ohm, R_{dson typ}=9m\ ohm$   
 $I_{peak}=13.67A, I_{max}=8A$   
 $\Delta I = ((19-1.5) \cdot (1.5/19)) / (L \cdot F_{sw}) = 2.930A$   
 $\Rightarrow 1/2 \Delta I = 1.465A$   
 $V_{trip} = R_{trip} \cdot I_{peak} = 18K \cdot 10uA = 0.180V$   
 $I_{ocpmin} = V_{trip} / R_{dsonmax} \cdot 1.4 + 1.465A = 12.645A$   
 $I_{ocpmax} = V_{trip} / R_{dson typ} \cdot 1.2 + 1.465A = 18.131A$   
 $I_{ocp} = 12.645A - 18.131A$

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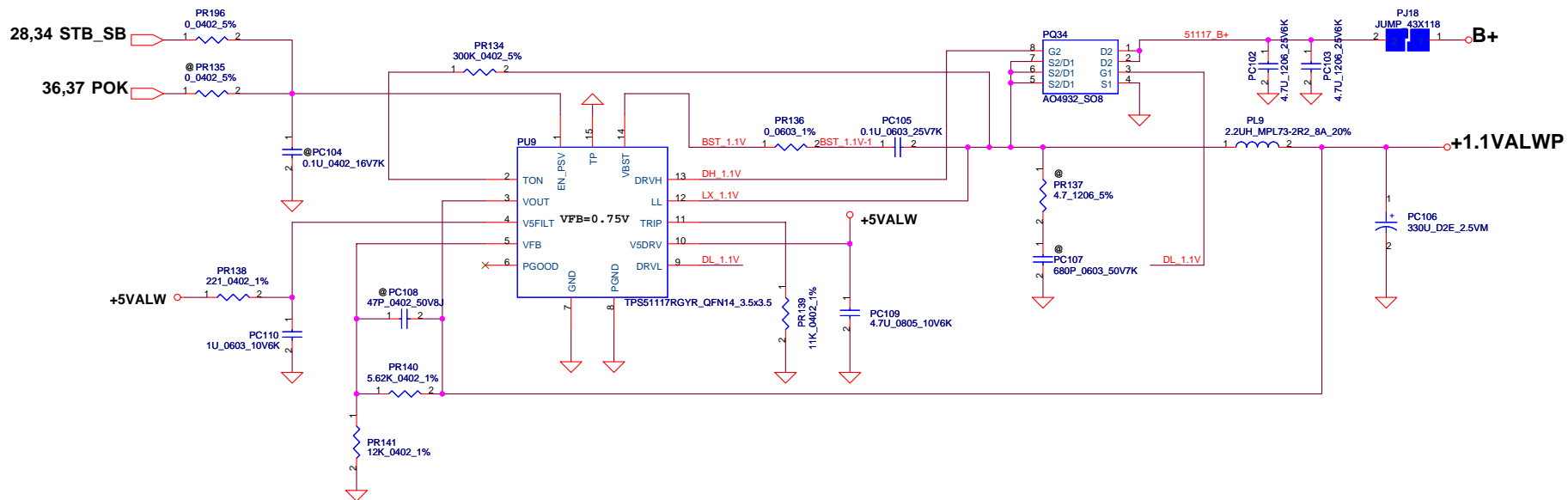


I<sub>max</sub>=17A, I<sub>ocp</sub>=

(+1.05~+0.75VSP)

VID2	VID1	VID0	voltage
L	L	L	1.05
L	L	H	0.98
L	H	L	0.90
L	H	H	0.87
H	L	L	0.80
H	L	H	0.79
H	H	L	0.77
H	H	H	0.75

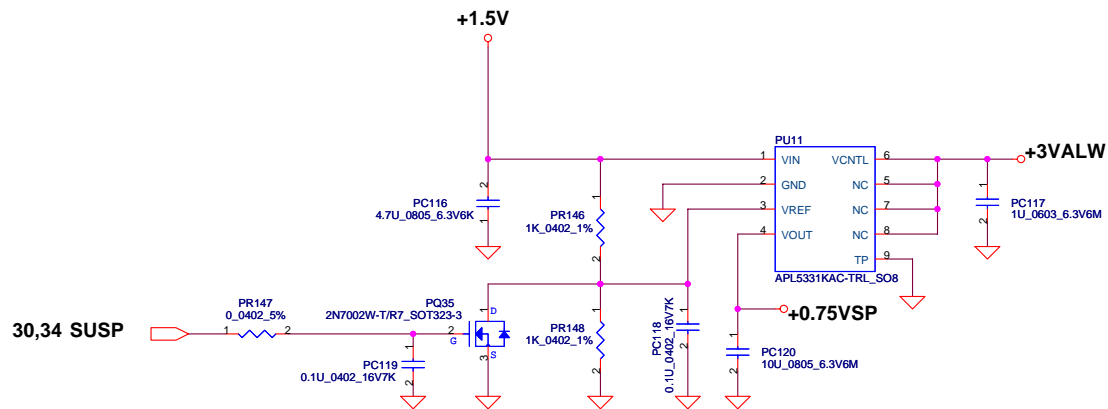
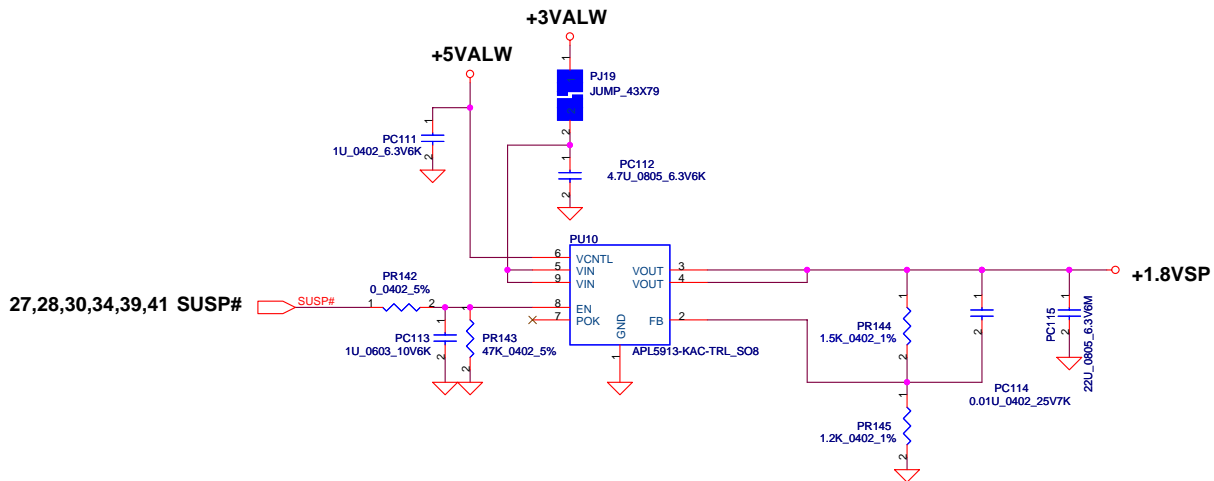
for layout convenience,  
do not change net name



VFB=0.75V  
 $V_o = VFB * (1 + PR140 / PR141) = 1.101V$   
 $F_{sw} = 262KHz$

$C_{out} ESR = 15m\ ohm$   
 $R_{dsonmax} = 27m\ ohm$ ,  $R_{dson typ} = 21m\ ohm$   
 $I_{peak} = 3.3A$ ,  $I_{max} = 2.31A$ ,  $I_{ocp} = 3.96A$   
 $\Delta I = ((19 - 1.1) * (1.1 / 19)) / (L * F_{sw}) = 1.798A$   
 $= 1 / 2 \Delta I = 0.899A$   
 $V_{trip} = R_{trip} * I_{ocp} = 11K * 10uA = 0.11V$   
 $I_{ocpmin} = V_{trip} / R_{dsonmax} * 1.3 + 0.899A = 4.033A$   
 $I_{ocpmax} = V_{trip} / R_{dson typ} * 1.1 + 0.899A = 5.661A$   
 $I_{ocp} = 4.033A \sim 5.661A$

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Version change list (P.I.R. List)

Item	Fixed Issue	Reason for change	Rev.	PG#	Modify List	Date	Phase
1	Add PC152	Add PC152 for BQ24751 OVP issue	0.2	38	Add PC152	09/24	DVT
2	Change PQ25 to FDS6670	Change PQ25 to FDS6670 for efficiency	0.2	39	Change PQ25 to FDS6670	09/24	DVT
3	Change PR107 to 18K	Change PR107 to 18K for OCP setting	0.2	40	Change PR107 to 18K	09/24	DVT
4	Change PL7 to 1.8UH	Change PL7 to 1.8UH for OCP setting	0.2	40	Change PL7 to 1.8UH	09/24	DVT
5	Change PQ31,32,33 P/N	Change PQ31,32,33 P/N for 2nd source	0.2	41	Change PQ31,32,33 P/N	09/24	DVT
6	Add STB_SB net for 1.1V-EN	Add STB_SB net for 1.1V-EN for HW debug	0.2	42	Add STB_SB net for 1.1V-EN	09/24	DVT
7	Change 0.75V EN to SUSP	Change 0.75V EN to SUSP	0.2	43	Change 0.75V EN to SUSP	09/24	DVT
8							
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23							

## Version change list (P.I.R. List)

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for PWR

Item	Fixed Issue	Reason for change	Rev.	PG#	Modify List	Date	Phase
1		MEMO		20	add Q6 Q8	9/15	0.1
2		MEMO		32	change R416, R418, R420, R421 to 75 ohm	9/15	0.1
3		MEMO		06	del C368	9/15	0.1
4		MEMO		06	add C483	9/15	0.1
5				11	change R137.1 to +3V_SB	9/15	0.2
6				25	swap JRJ45.11 and JRJ45.12	9/15	0.2
7				21	swap JHDMI.1 and JHDMI.3	9/15	0.2
8				26	add 80 port signal to Jmini2	9/15	0.2
9				34	R92 change from 0805 to 0603	9/15	0.2
10				21	change D12 p/n	9/15	0.2
11				14	pop D13	9/15	0.2
12				11	enbkl add pull low resistor	9/15	0.2
13				26	R211.1 change form +3Valw to +3V_SB	9/15	0.2
14				14	add pull low resistor R461 on ec_rsmrst# signal	9/15	0.2
15				29	change LED behavior for I D spec	9/15	0.2
16				23	change U14 JMB380 to JMB385	9/15	0.2
17				27	add JUSB2 port	9/15	0.2
18				28	add R462,R463 KSO1 / KSO2 pull high 47k	9/15	0.2
19				19	LVDS, del U29, pop Q37,R299,C443	9/15	0.2
20				33	fan controller, change U9 to APL5607 , R85 to 0 ohm, del D9,D10	10/9	0.2
21				32	del amplifire LDO, change R413,R411 o 56 ohm	10/9	0.2
22				29	pop D1,D8,D21,D22 for ESD	10/9	0.2
23				14	pop U13, R166,R169,C229 for HDCP	10/9	0.2

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## Version change list (P.I.R. List)

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Item	Fixed Issue	Reason for change	Rev.	PG#	Modify List	Date	Phase
1				20	add C44,C35,C21, change C43,C34,C20 to 18p	9/15	0.2
2				23	change D17 p/n	10/9	0.2
3				32	change L33,L34 p/n	10/9	0.2
4				31	change R11,R12,R13,R276 p/n	10/9	0.2
5				21	change F2 p/n	10/9	0.2
6				7	reserve BSEL pull low resistor R470,R471,R472	10/9	0.2
7				14	change SMBus pull high value,R73,R96,R93,R94 to 2.2k	10/9	0.2
8				15	del C319	10/9	0.2
9				33	del U19,U28,R221,R289,C323,C431,R223,R285	10/9	0.2
10				21	change HDMI R119,R142,R118,R140 pull high to 2.7k	10/9	0.2
11				19	change R294 to 100k	10/9	0.2
12				29	del LED(10,11,12,15,17,18) , add LED(19,20,21,22,23,24)		0.2
13				34	pop R231,Q22,R16,Q4		0.2
14				28	pop R133, change R132 to 8.2k		0.2
15				29	change LED9 p/n	MEMO	0.2
16				24	change Q9 p/n	11/6	0.3
17				23	del R451, Q18, D17	11/6	0.3
18				25	reserve R473, R474	11/6	0.3
19				29	del LED11,17,20,23 ,pop LED14,LED16.R447,R465	11/6	0.3
20				31	pop D3	11/6	0.3
21				22	unpop C455,C456	11/6	0.3
22				14	change R73,R96 to 1.8k	11/6	0.3
23				14	del R136 add R475, del R132, unpop D3	11/25	1.0

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