

# Compal Confidential

## DCL51 Schematics Document

### Banias uFCBGA/uFCPGA Package with Montara-GM Core Logic

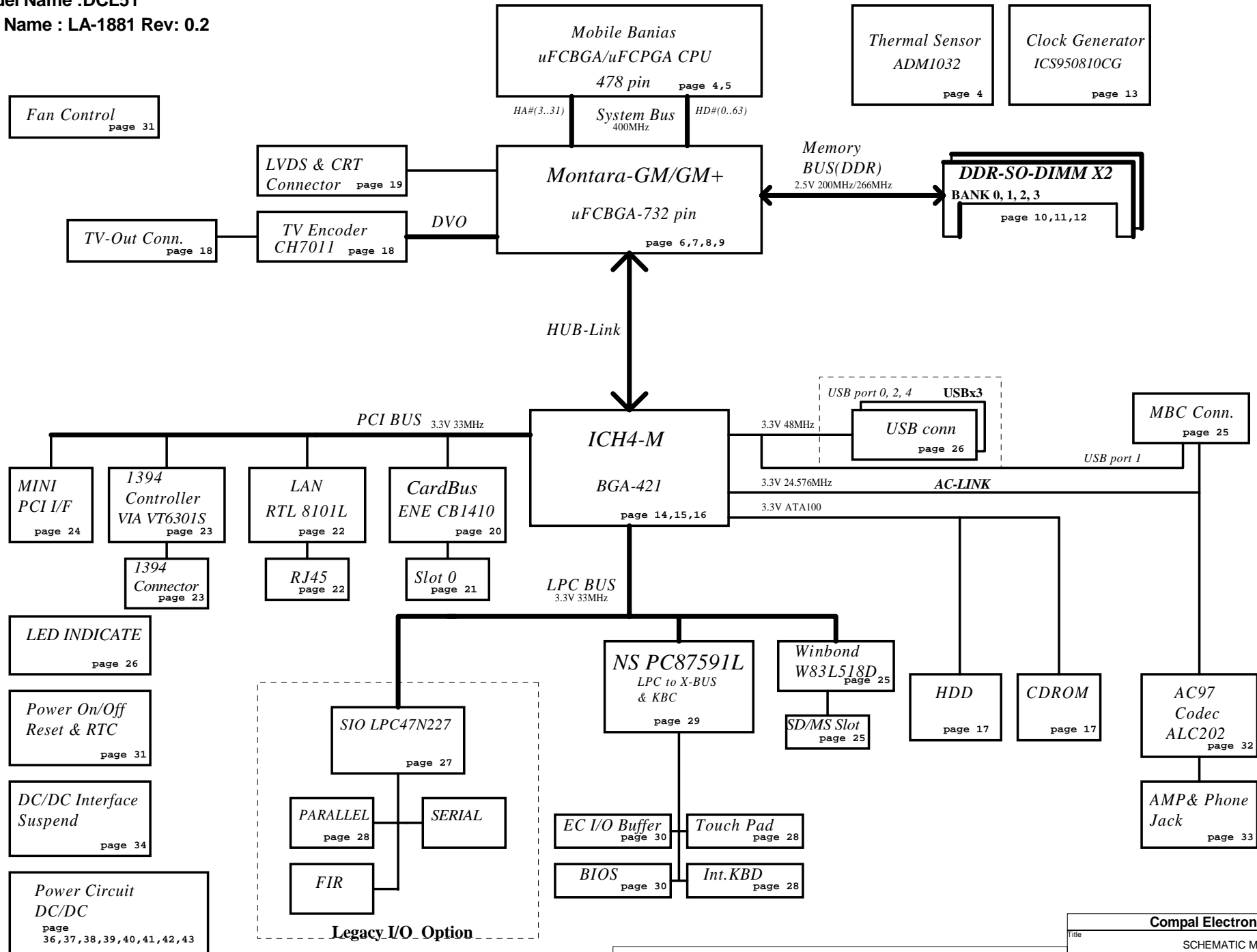
2003-06-12

REV: 1.0

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Title		
SCHEMATIC M/B LA-1881		
Size	Document Number	Rev
	401259	B
Date:	~P期三, 十二月 29, 2004	Sheet 1 of 45

Model Name :DCL51  
File Name : LA-1881 Rev: 0.2



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Compal Electronics, Inc.		
Title		
SCHEMATIC M/B LA-1881		
Size	Document Number	Rev
	401259	B
Date:	星期三, 十二月 29, 2004	Sheet 2 of 45

### Voltage Rails

Power Plane	Description	S0-S1	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
+VCCP	1.05V rail for Processor I/O	ON	OFF	OFF
+1.2VS	1.2VS switched power rail for GMCH	ON	OFF	OFF
+1.25VS	1.25V switched power rail	ON	OFF	OFF
+1.5VALW	1.5V power rail	ON	ON	ON
+1.5V	1.5V power rail	ON	ON	OFF
+1.5VS	1.5V power rail for GMCH	ON	OFF	OFF
+1.8VS	1.8V switched power rail	ON	OFF	OFF
+2.5V	2.5V power rail	ON	ON	OFF
+2.5VS	2.5V switched power rail	ON	OFF	OFF
+3VALW	3.3V always on power rail	ON	ON	ON*
+3V	3.3V power rail	ON	ON	OFF
+3VS	3.3V switched power rail	ON	OFF	OFF
+5VALW	5V always on power rail	ON	ON	ON*
+5V	5V power rail	ON	ON	OFF
+5VS	5V switched power rail	ON	OFF	OFF
+12VALW	12V 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.

### Board ID Table

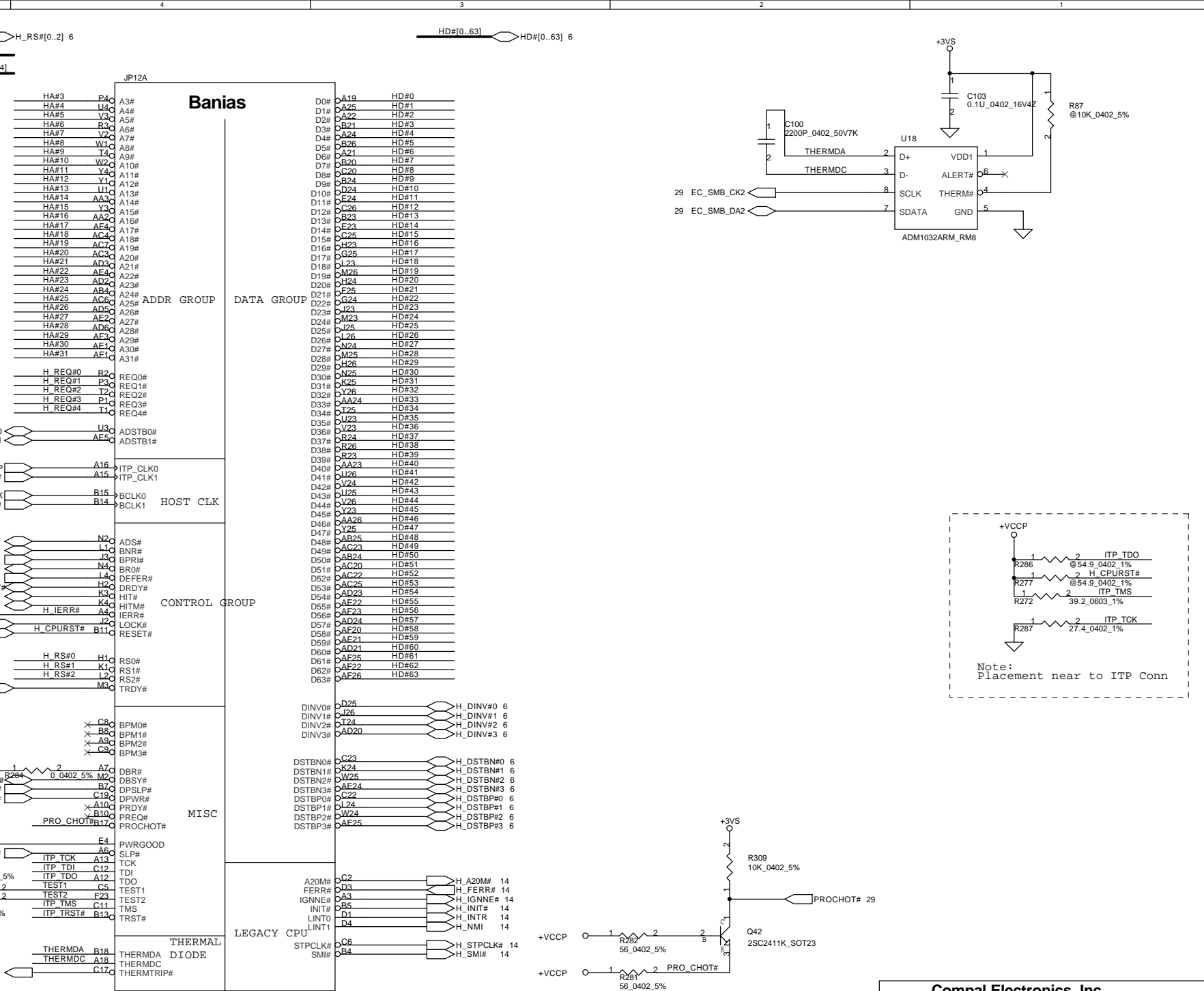
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0	1	0	0.3 (For 030)
0	1	1	1.0 (For 030)
1	0	0	0.1 (For ABO)
1	0	1	0.2 (For ABO)
1	1	0	0.3 (For ABO)
1	1	1	1.0 (For ABO)

### External PCI Devices

Device	IDSEL#	REQ#/GNT#	Interrupts
CardBus	AD20	2	PIRQA
LAN	AD17	3	PIRQF
Mini-PCI	AD18/AD20	1/4	PIRQG/PIRQH
1394	AD16	0	PIRQE

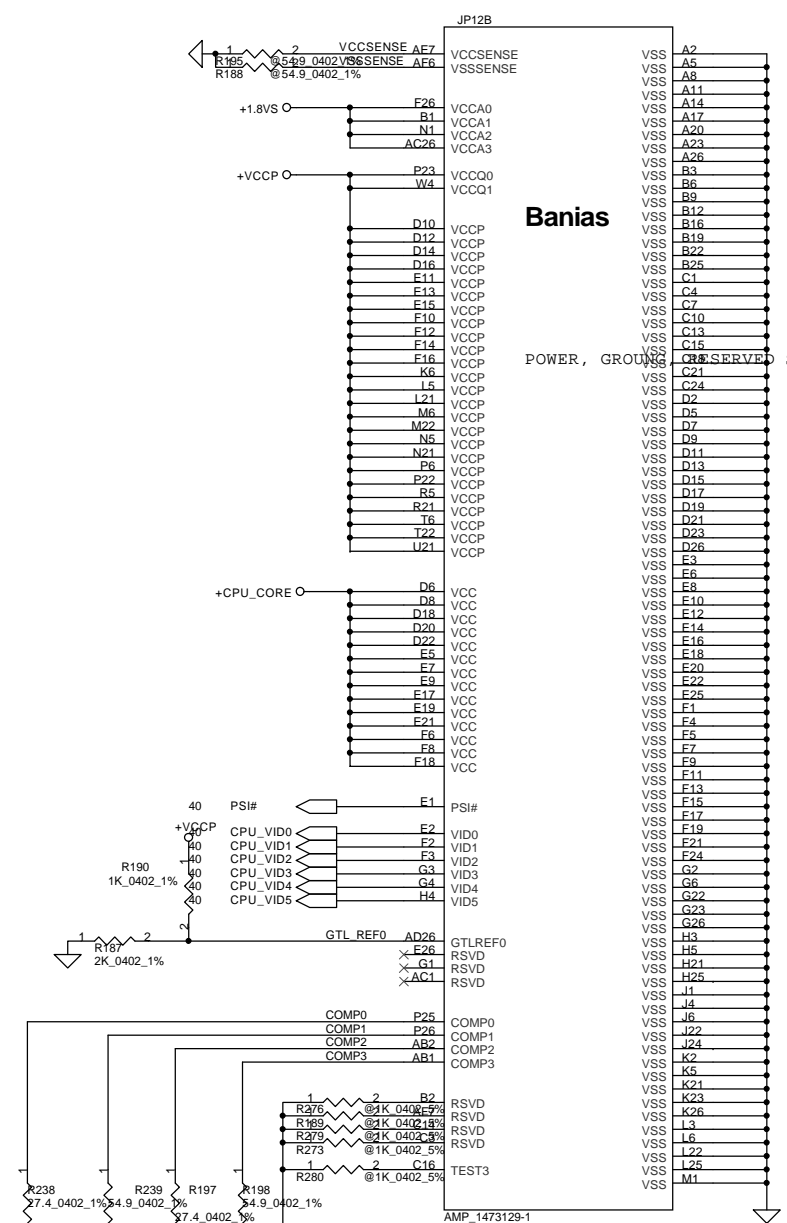
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SCHEMATIC M/B LA-1881		
Size	Document Number	Rev
B	401259	B
Date:	~P星期三, 十二月 29, 2004	Sheet 3 of 45



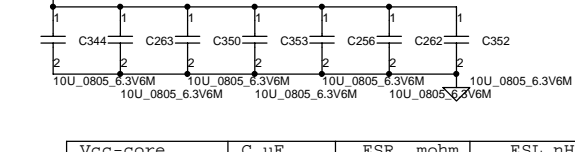
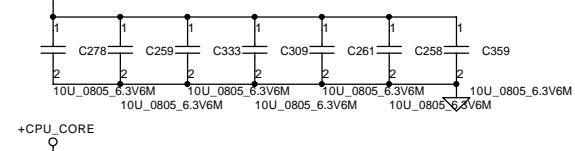
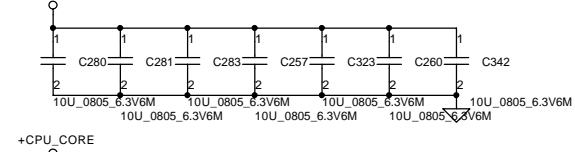
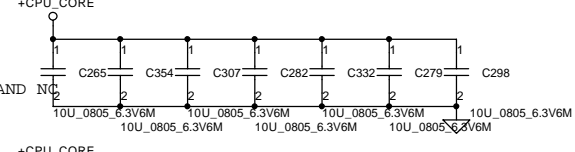
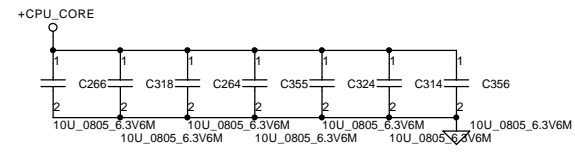
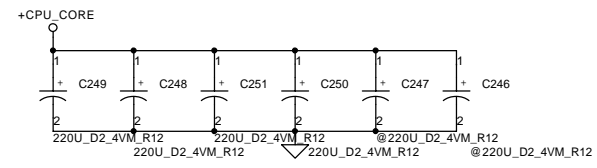
Note:  
Placement near to CPU Conn

Note:  
Placement near to ITP Conn

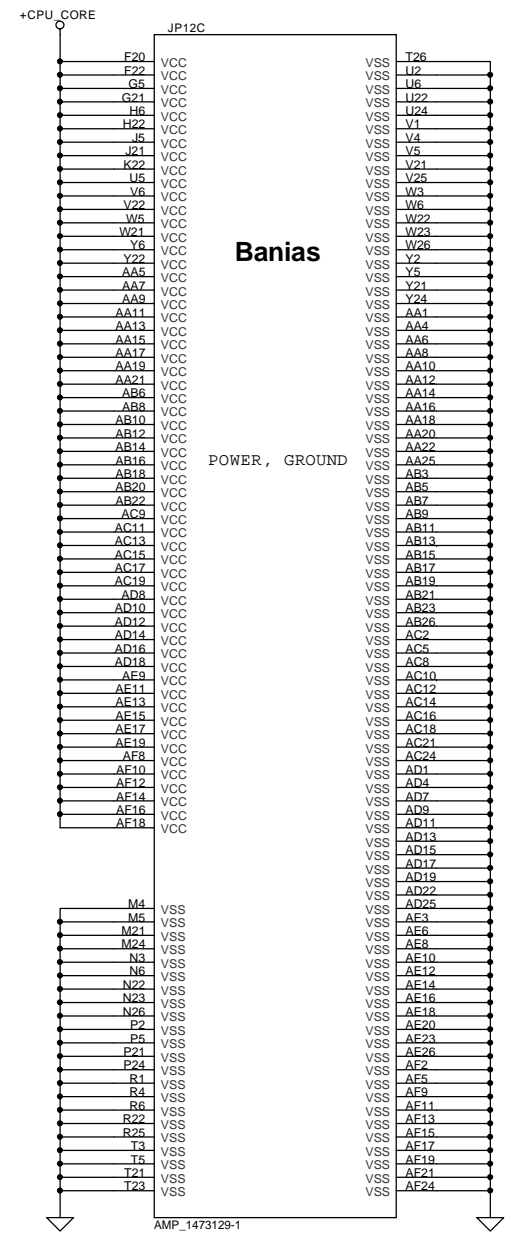
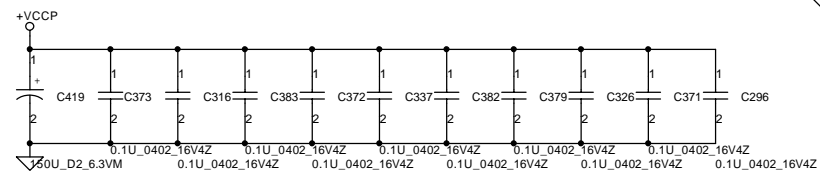
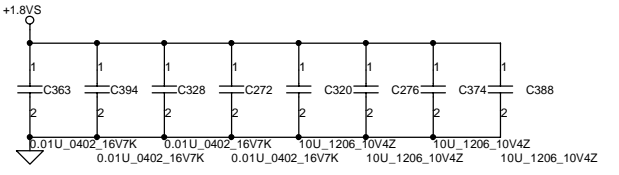


Banias

POWER, GROUND RESERVED SIGNALS AND NC



Vcc-core Decoupling	C, uF	ESR, mohm	ESL, nH
SPCAP, Polymer	4X220uF	12m ohm/4	3.5nH/4
MLCC 0805 X5R	35X10uF	5m ohm/35	0.6nH/35



Banias

POWER, GROUND

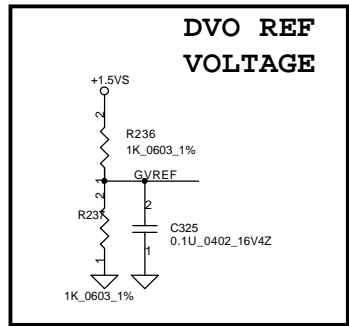
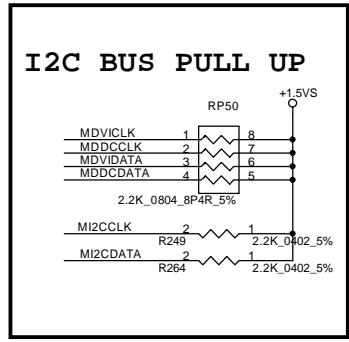
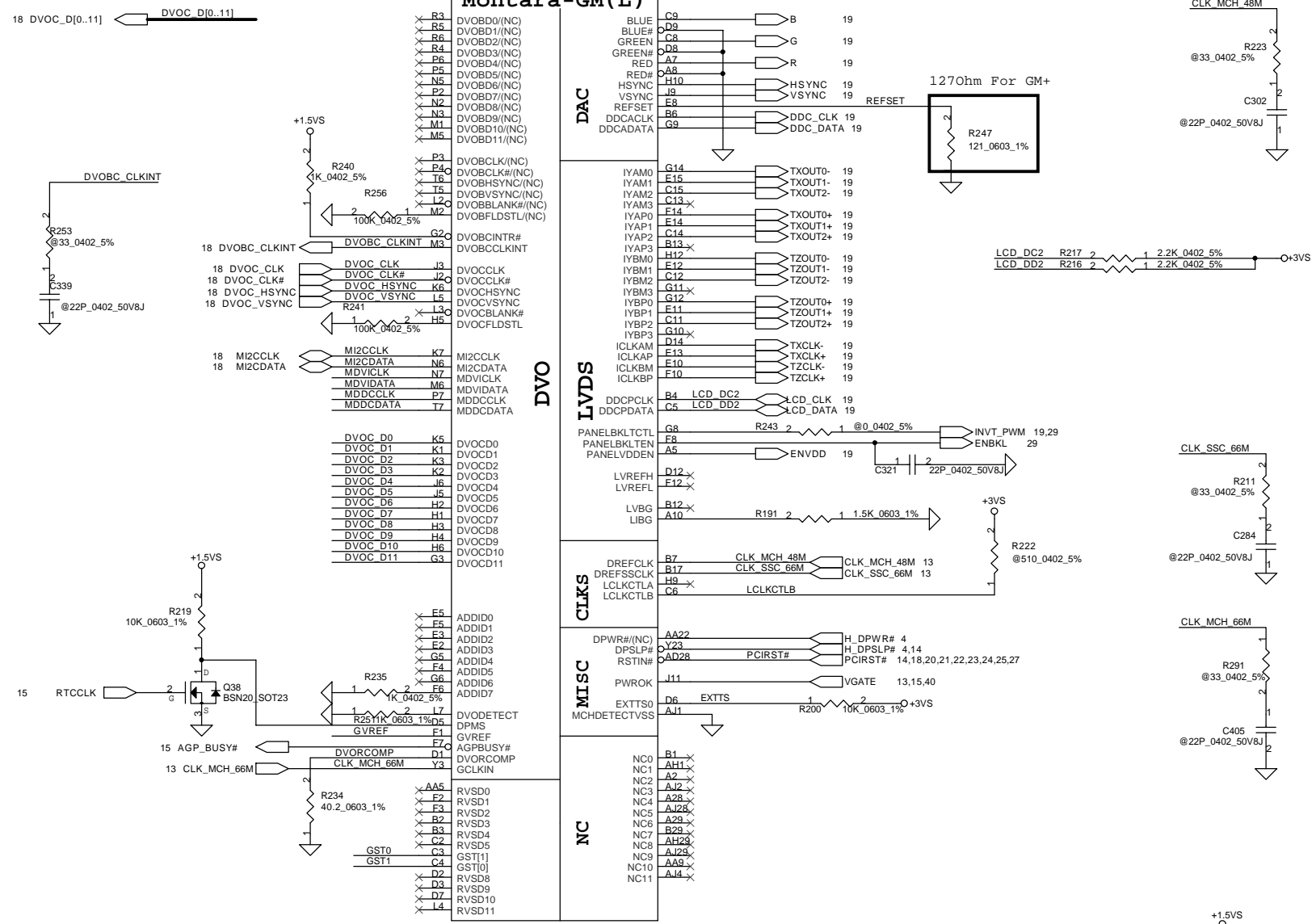
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Title		SCHEMATIC M/B LA-1881	
Size	Document Number	401259	
A3			Rev B
Date:	-P期三 十二月 29, 2004	Sheet	5 of 45



Montara-GM(L)



**Starp pin list**

LCLKCTLB: High for P4  
N.C. for Banias (default low)  
DVODETECT: Low to enable DVO  
High to disable DVO

GST0	GST1	PSB/Sys Mem/ GFX Core
0	0	400/266/200 (default)
0	1	400/200/200
1	0	400/200/133

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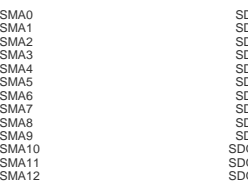
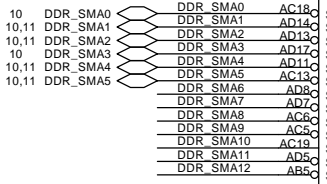
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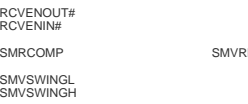
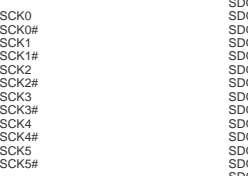
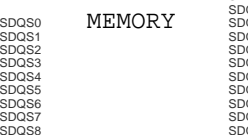
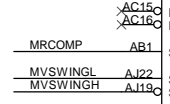
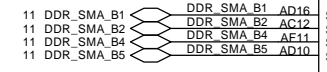
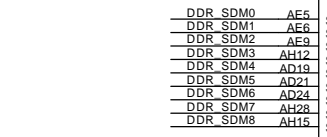
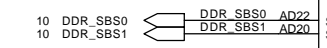
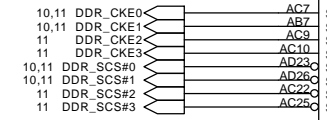
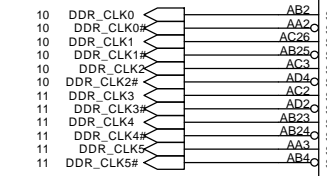
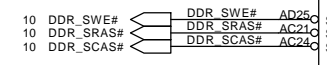
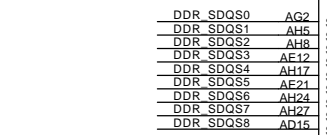
Date: ~P期三,十二月29,2004 Sheet 7 of 45

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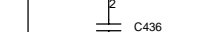
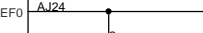
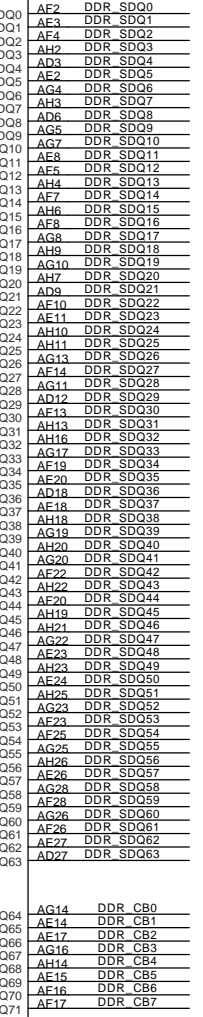
Montara-GM(L)



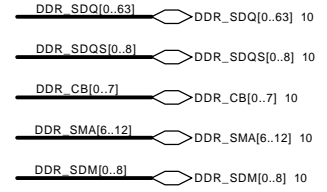
MEMORY



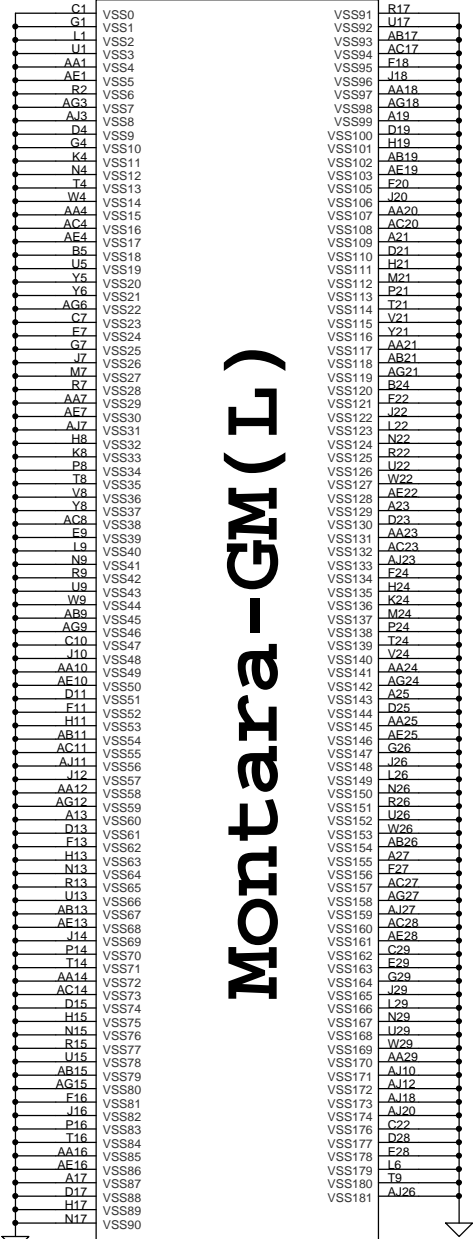
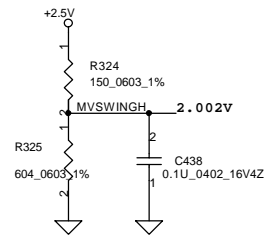
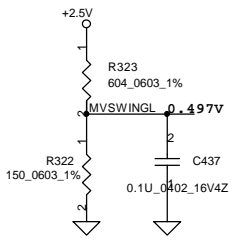
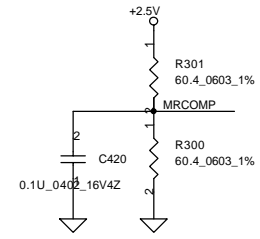
RG82G4350M\_uFCBGA732



RG82G4350M\_uFCBGA732



DDR REF & SWING VOLTAGE

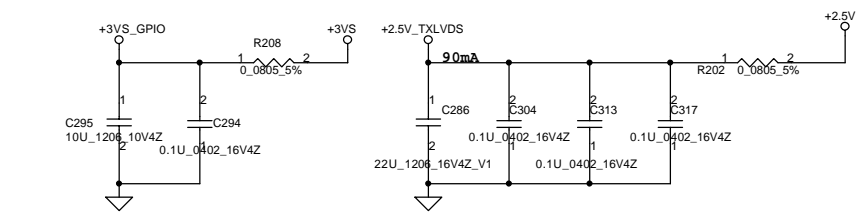
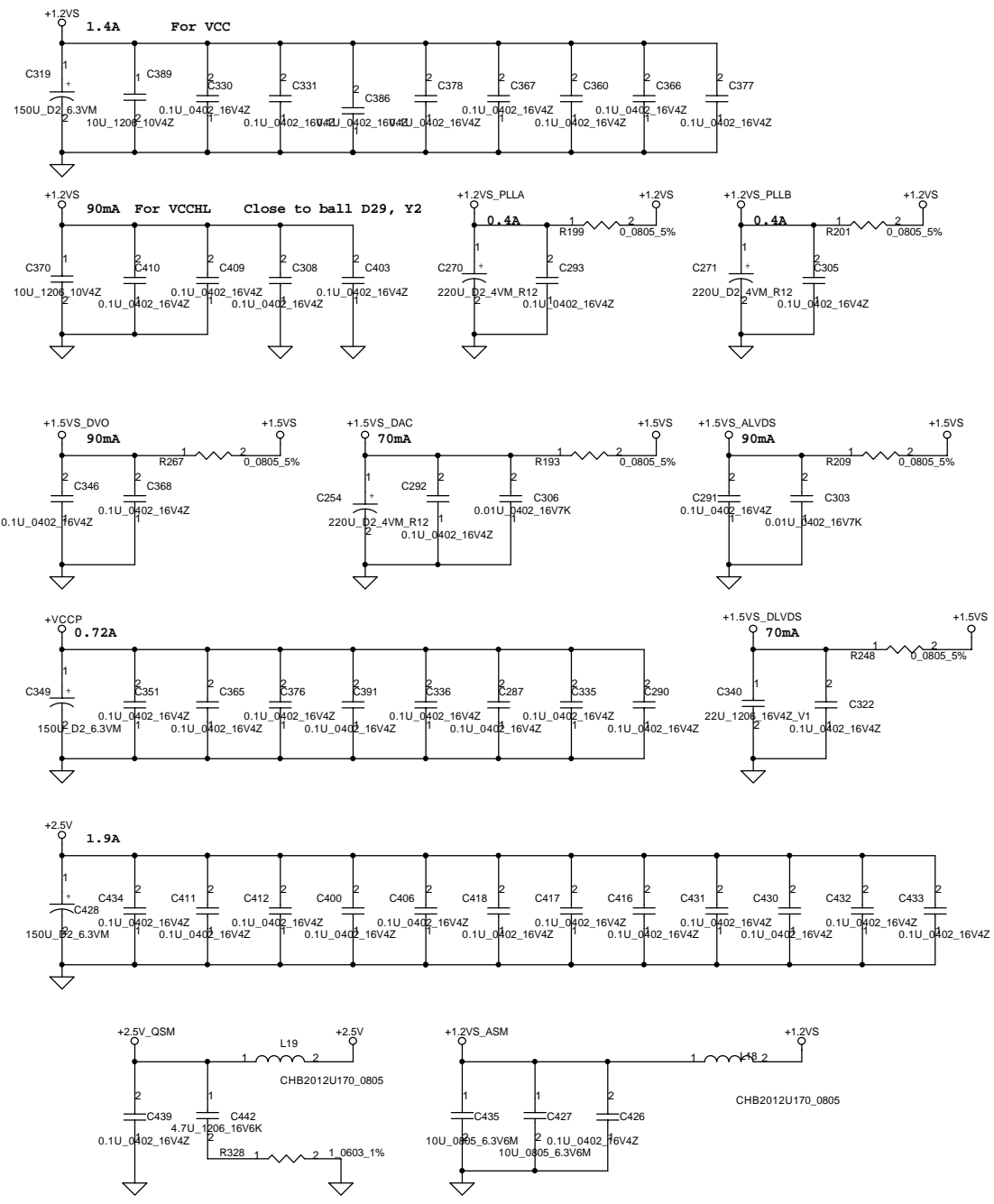
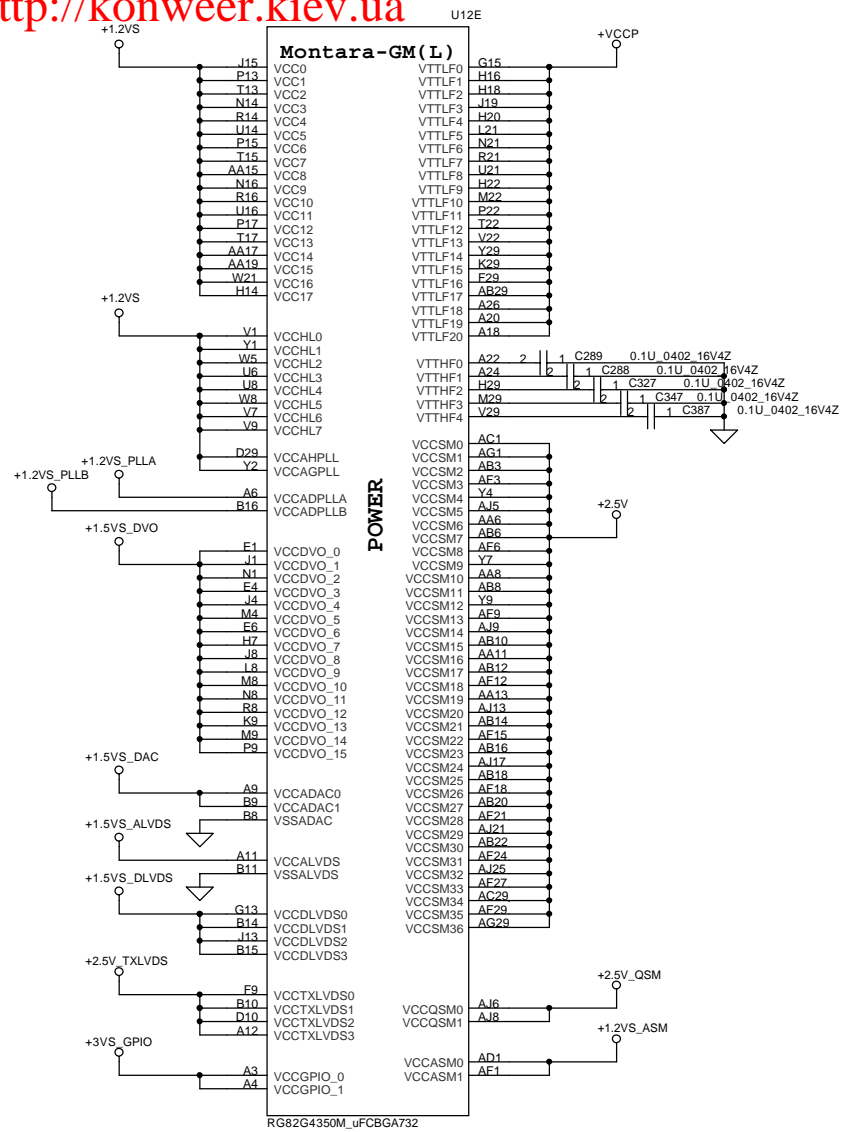


Montara-GM(L)

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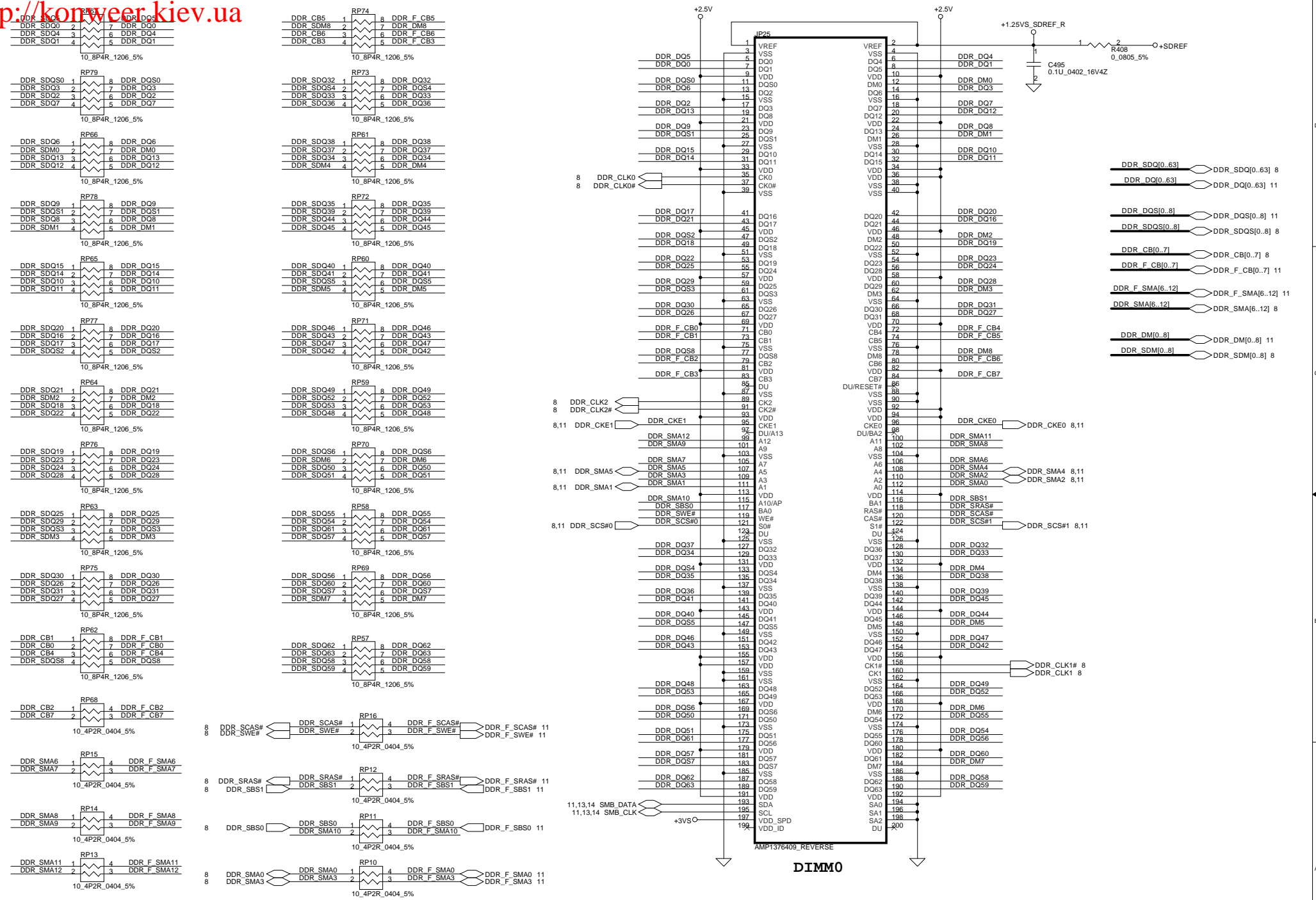
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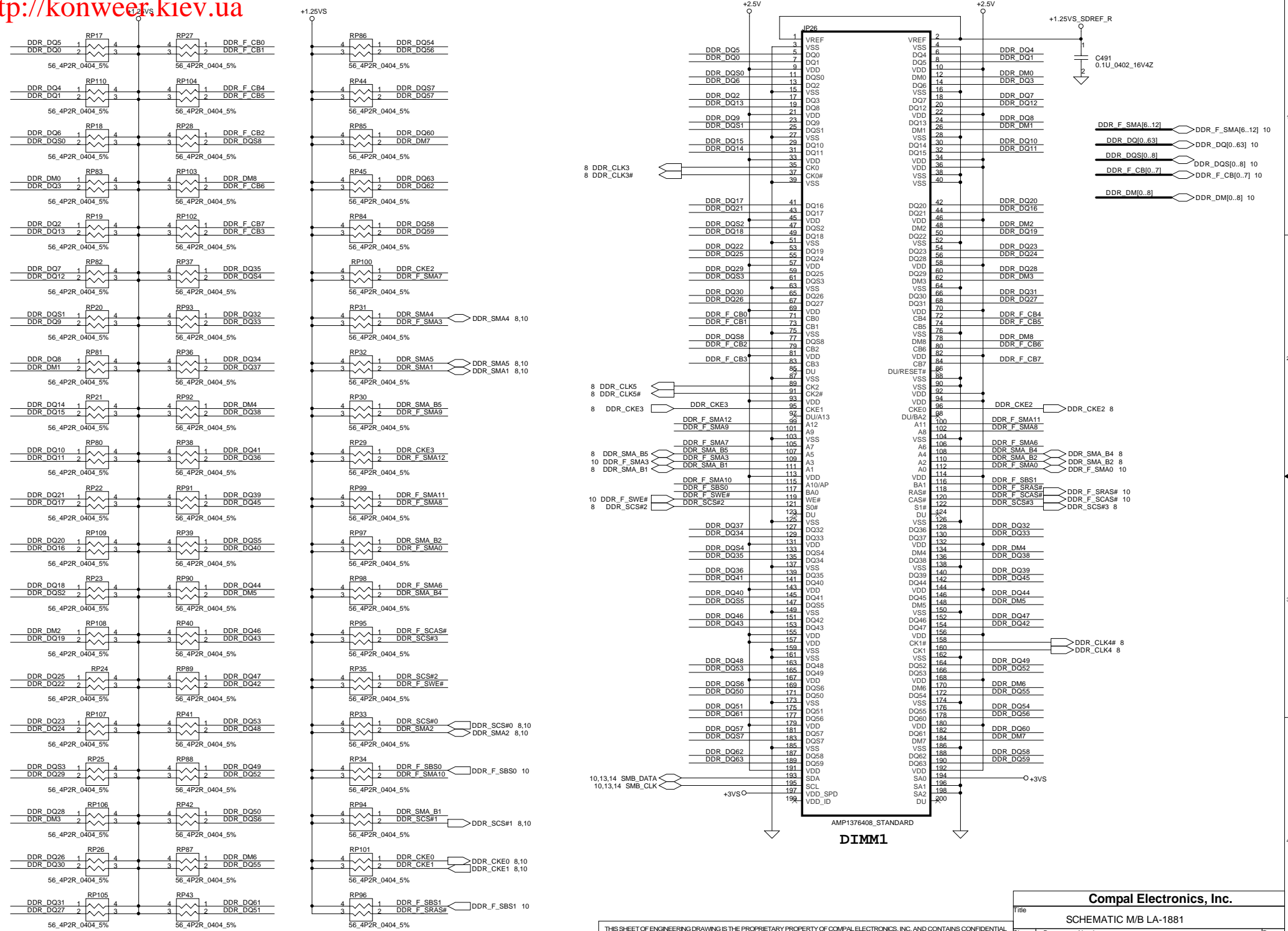
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Title	SCHEMATIC M/B LA-1881	
Size	Document Number	Rev
	401259	B
Date:	~P 星期三, 十二月 29, 2004	Sheet 9 of 45



<b>Compal Electronics, Inc.</b>		
Title		
SCHEMATIC M/B LA-1881		
Size	Document Number	Rev
	401259	B
Date:	星期三, 十二月 29, 2004	Sheet 10 of 45

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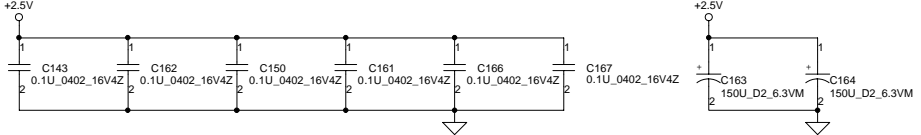
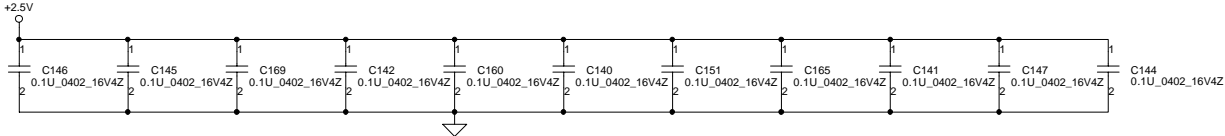


- DDR F\_SMA[6..12] ⇨ DDR\_F\_SMA[6..12] 10
- DDR DQ[0..63] ⇨ DDR\_DQ[0..63] 10
- DDR DQS[0..8] ⇨ DDR\_DQS[0..8] 10
- DDR F\_CB[0..7] ⇨ DDR\_F\_CB[0..7] 10
- DDR DM[0..8] ⇨ DDR\_DM[0..8] 10

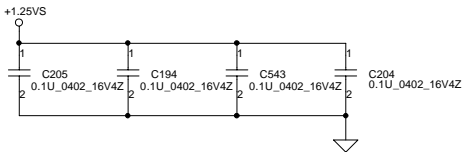
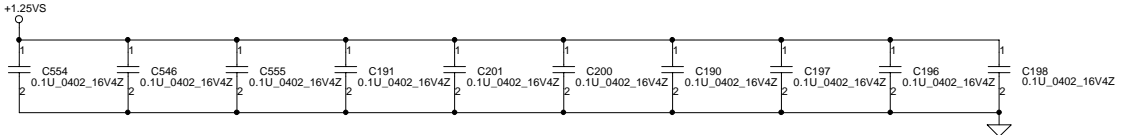
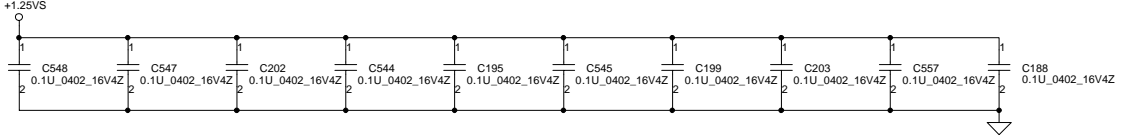
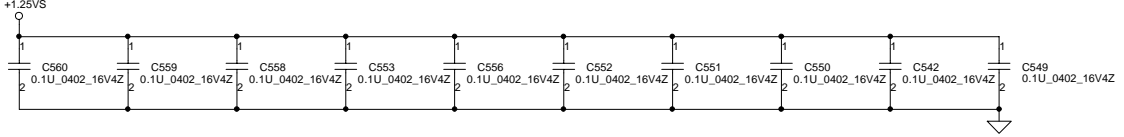
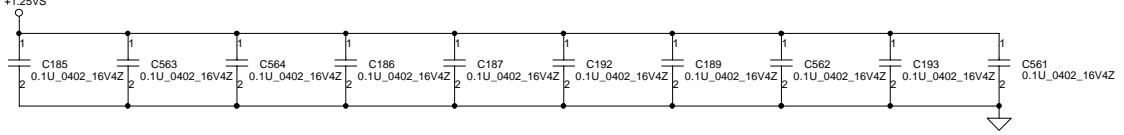
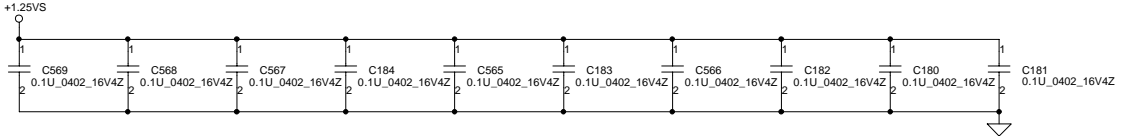
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Size	Document Number	Rev
	401259	B
Date:	星期三, 十二月 29, 2004	Sheet 11 of 45

Distribute as close as possible to DDR-SODIMM.



Layout note : Place one cap close to every 2 pull up resistors termination to +1.25V



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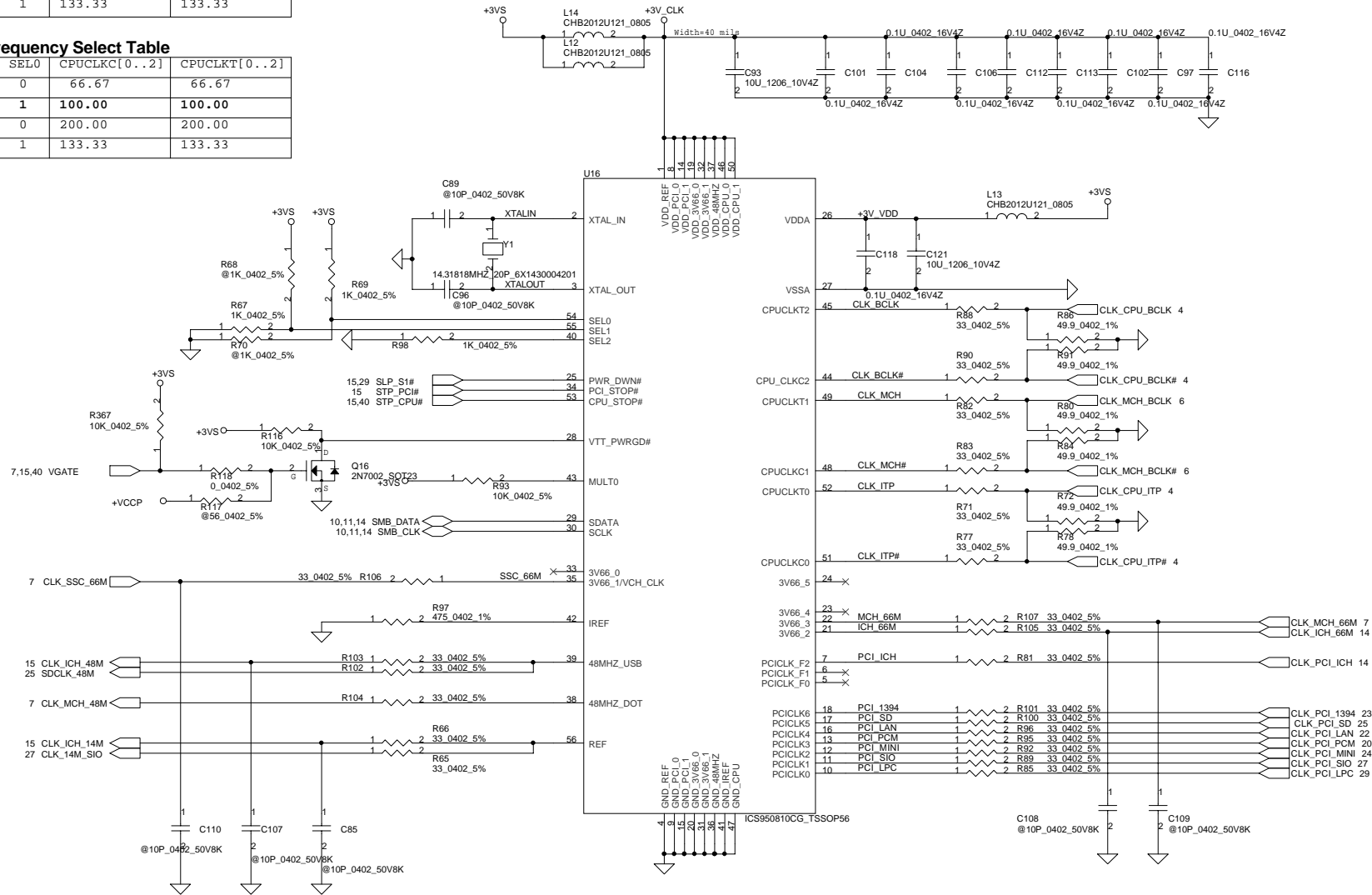
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Title <b>SCHEMATIC M/BLA-1881</b>		
Size	Document Number <b>401259</b>	Rev B
Date	星期三, 十二月 29, 2004	Sheet 12 of 45

ICS950810 Frequency Select Table

SEL2	SEL1	SEL0	CPUCLKC[0..2]	CPUCLKT[0..2]
0	0	0	166.67	166.67
0	0	1	100.00	100.00
0	1	0	200.00	200.00
0	1	1	133.33	133.33

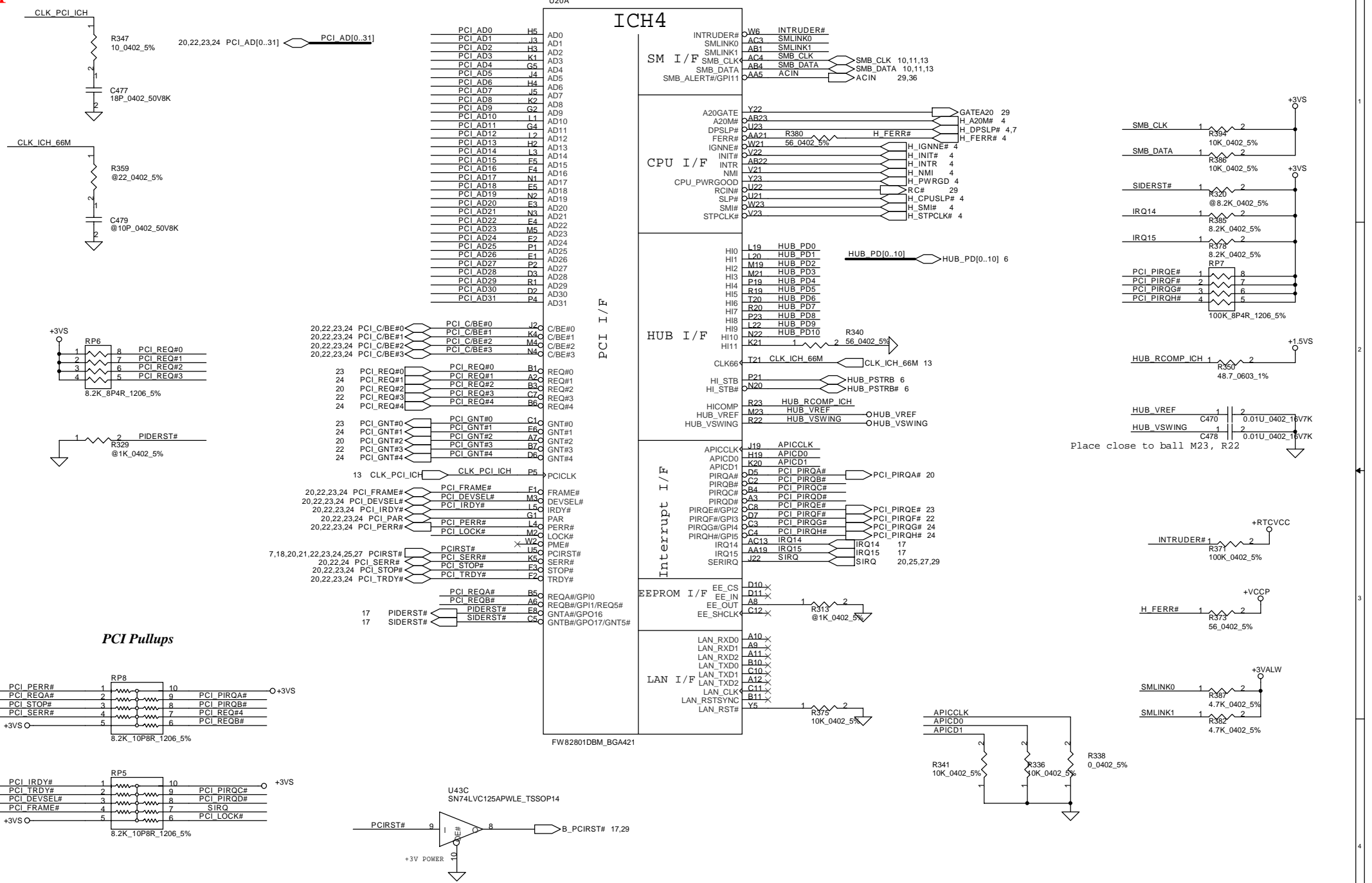
CY28346-2 Frequency Select Table

SEL2	SEL1	SEL0	CPUCLKC[0..2]	CPUCLKT[0..2]
0	0	0	66.67	66.67
0	0	1	100.00	100.00
0	1	0	200.00	200.00
0	1	1	133.33	133.33



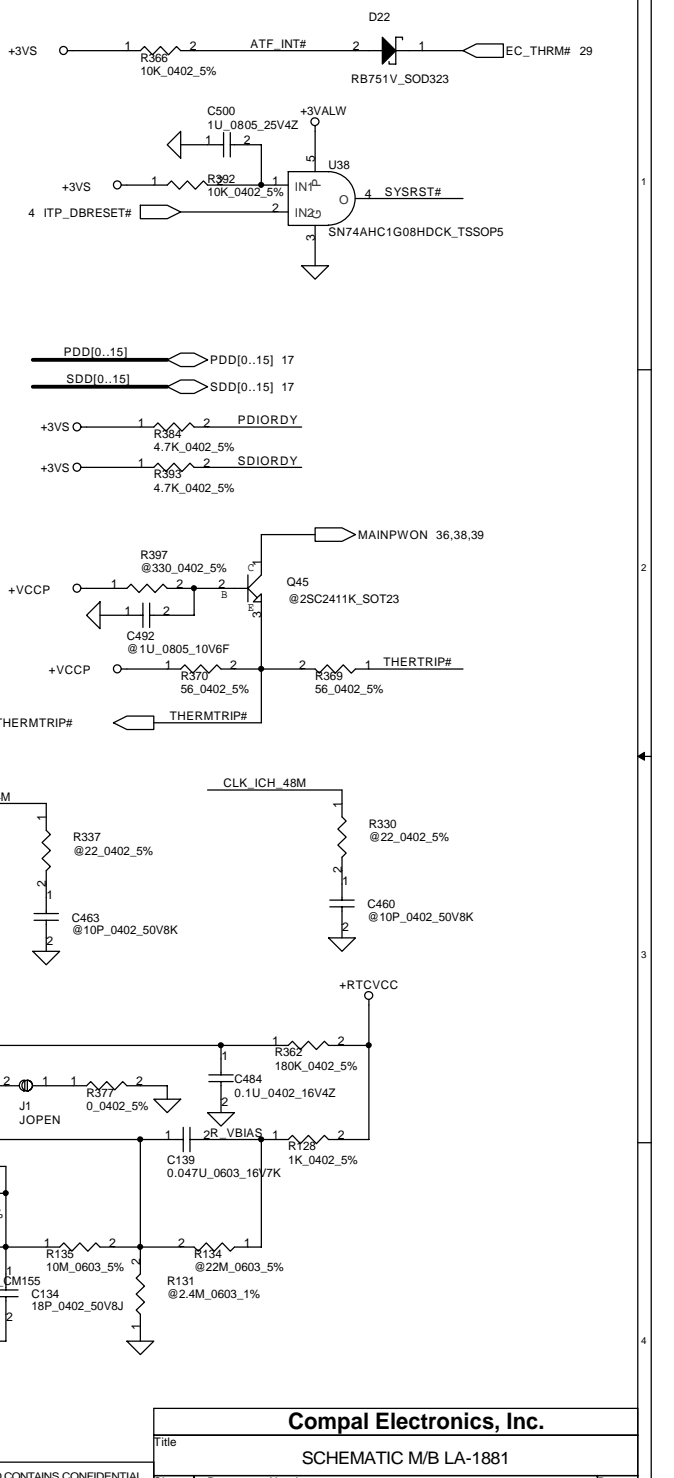
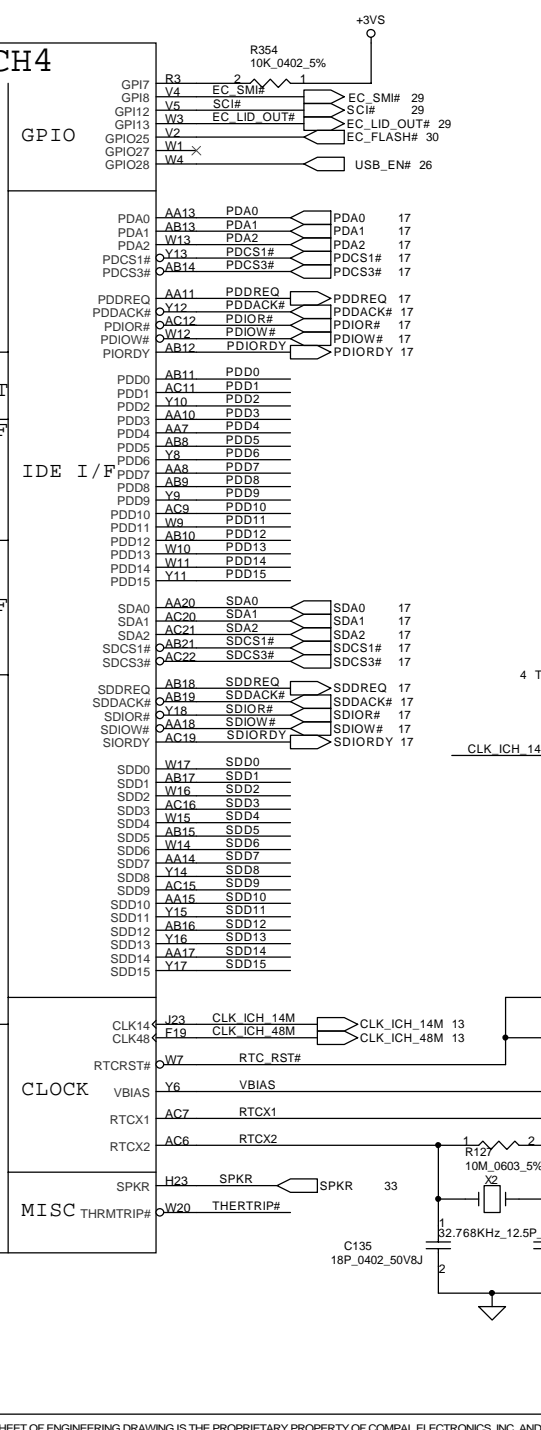
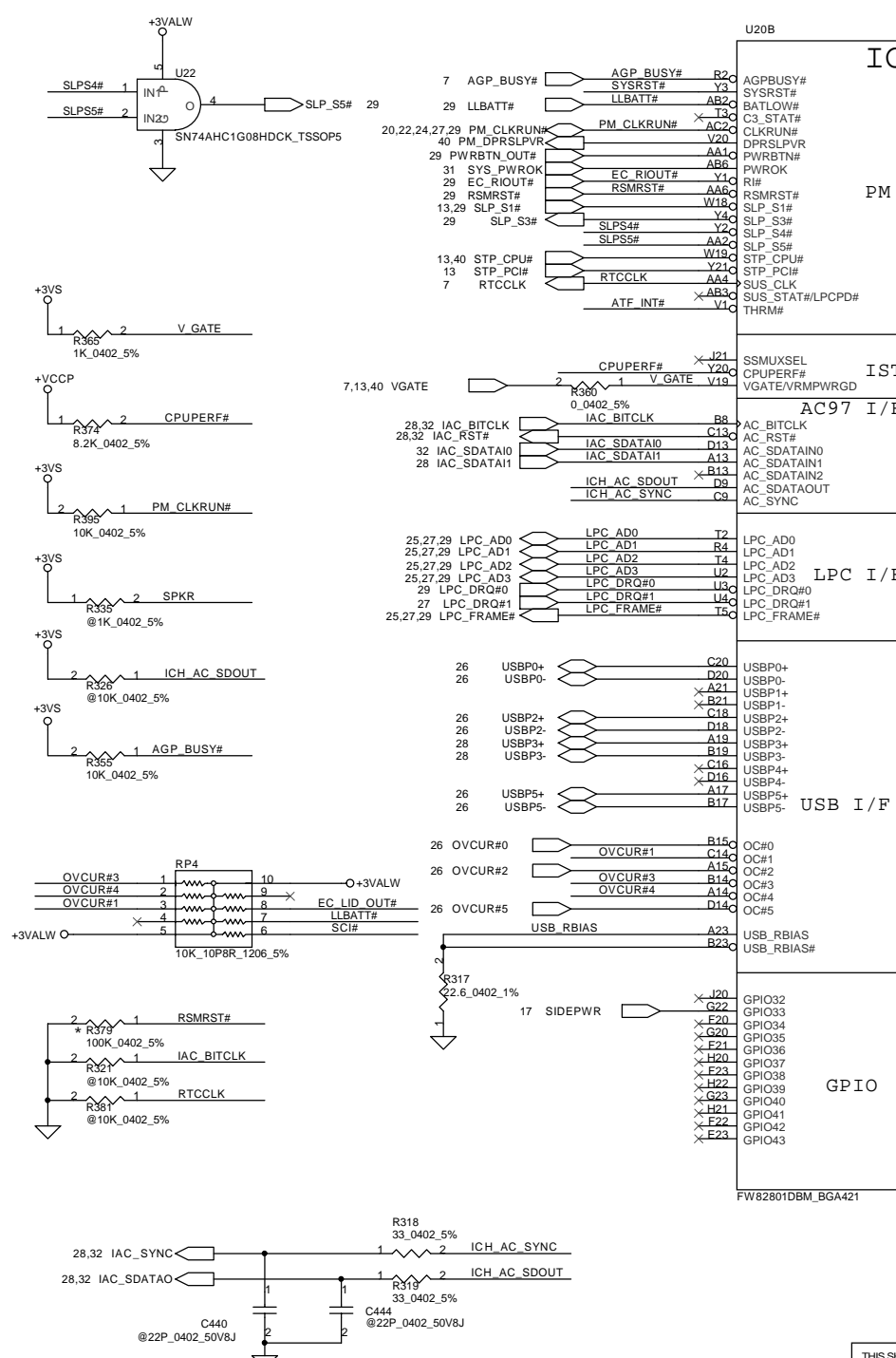
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Title SCHEMATIC M/B LA-1881		
Size B	Document Number 401259	Rev B
Date: 星期三, 2004年12月29日	Sheet 13	of 45



Compal Electronics, Inc.		
Title: SCHEMATIC M/B LA-1881		
Size	Document Number: 401259	Rev: B
Date: ~P星期三, 十二月 29, 2004	Sheet: 14	of: 45

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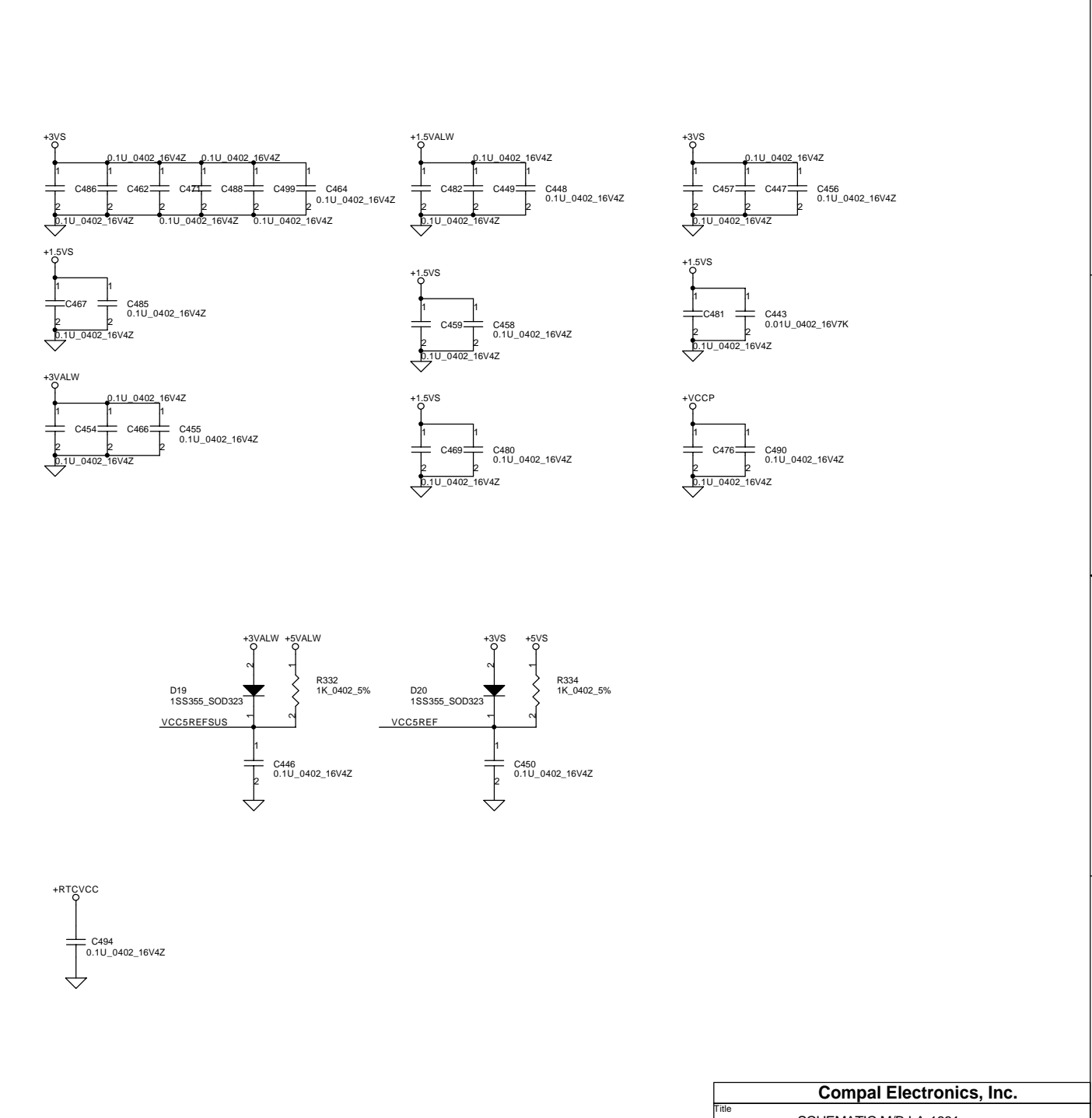
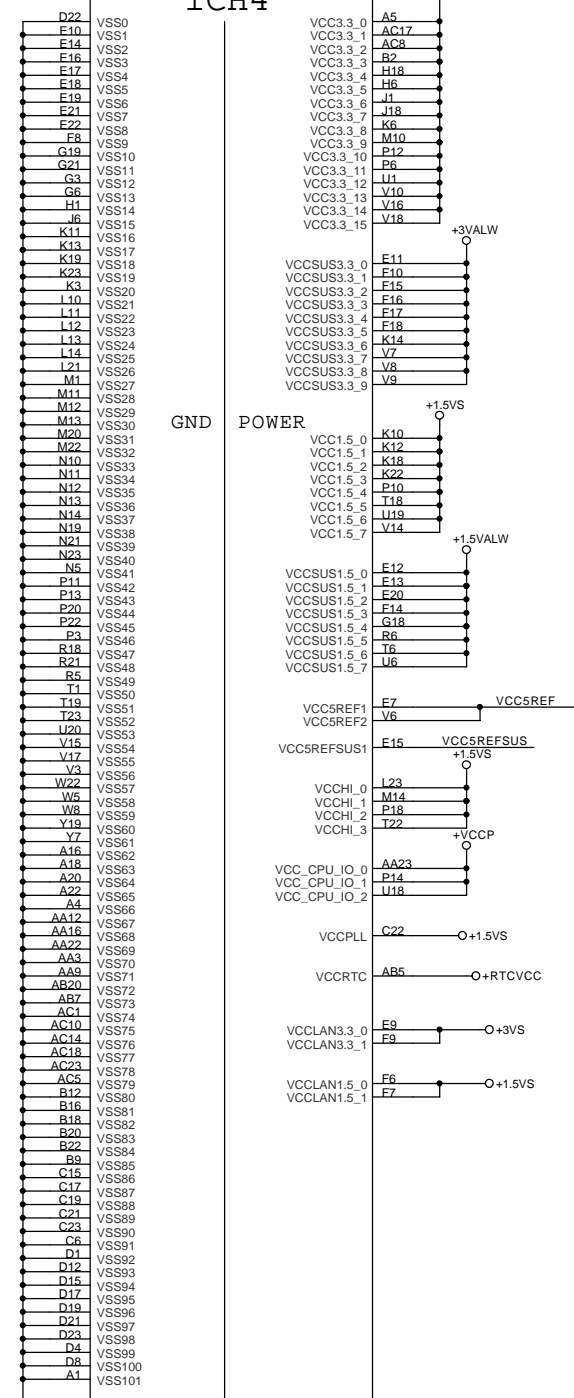


Compal Electronics, Inc.		
Title	SCHEMATIC M/B LA-1881	
Size	Document Number	Rev
	401259	B
Date:	~P 星期三, 十二月 29, 2004	Sheet 15 of 45

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U20C

# ICH4

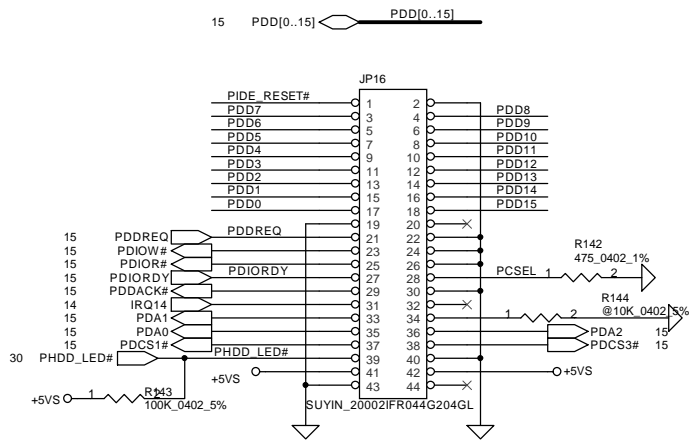


FW82801DBM\_BGA421

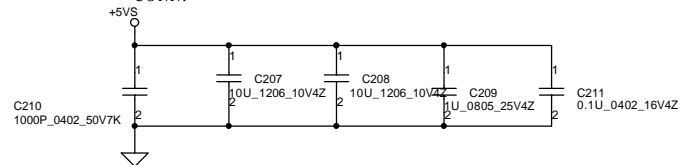
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Title <b>SCHEMATIC M/B LA-1881</b>		
Size	Document Number <b>401259</b>	Rev <b>B</b>
Date:	~P 星期三, 十二月 29, 2004	Sheet 16 of 45

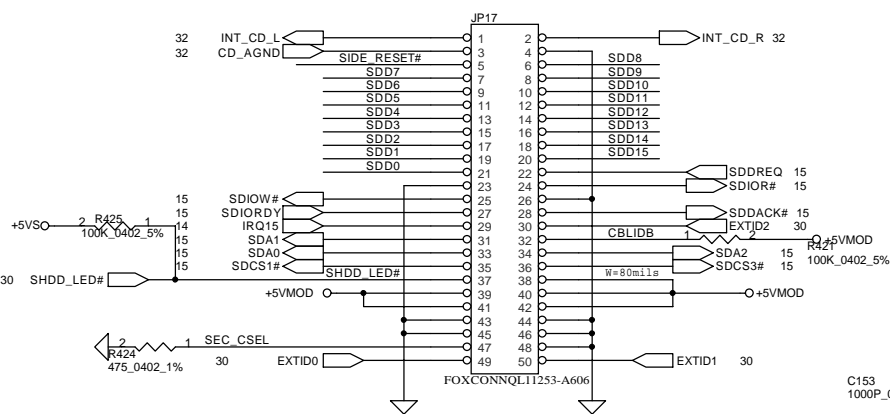
### HDD Connector



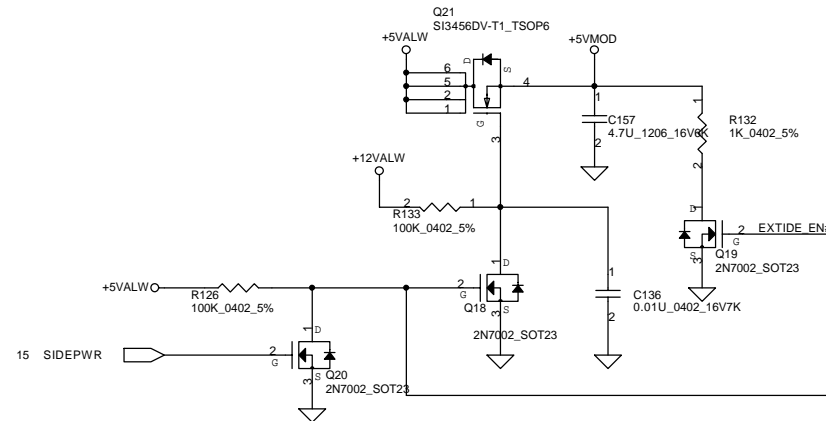
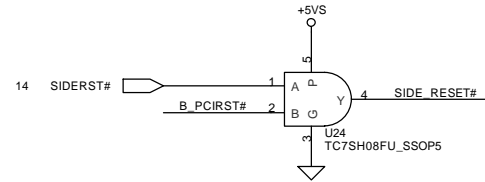
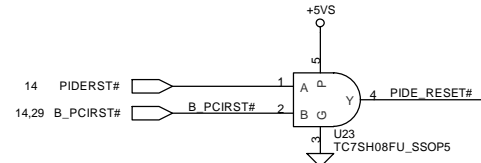
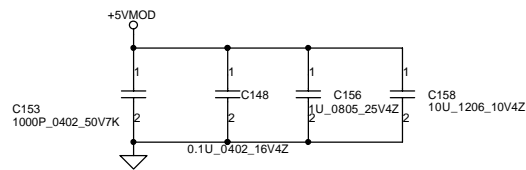
#### Placea caps. near HDD CONN.



### CD-ROM Connector



#### Placea caps. near CDROM CONN.



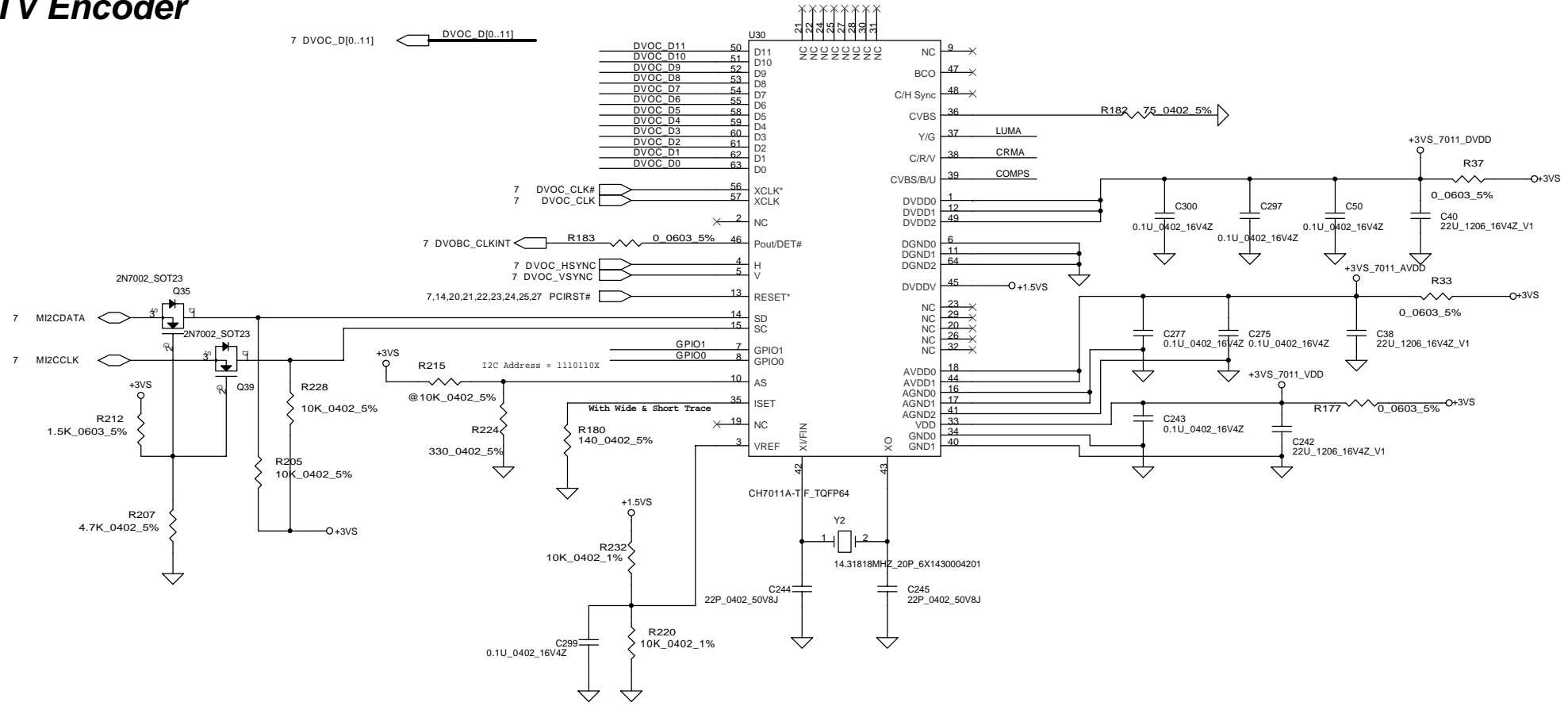
SI3456DV: N CHANNEL  
VGS: 4.5V, RDS: 65 mOHM  
Id(MAX): 5.1A  
VGS,+20V

### Compal Electronics, Inc.

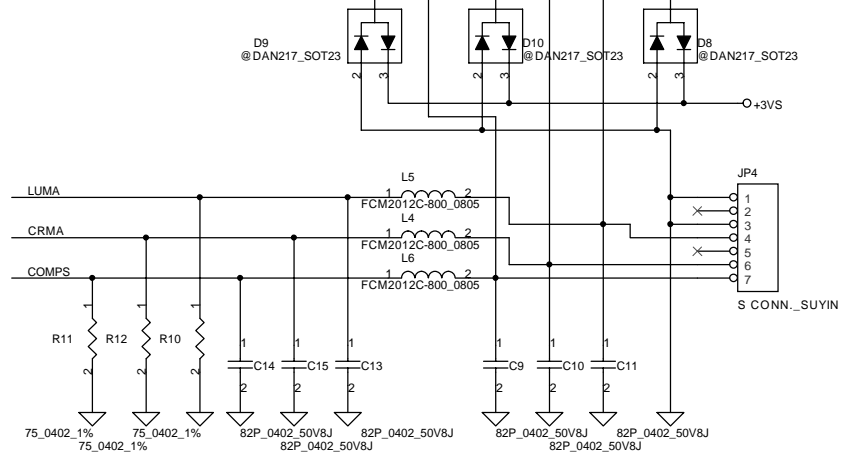
Title		SCHEMATIC M/B LA-1881	
Size	Document Number	Rev	B
	401259		
Date:	~P 星期三, 十二月 29, 2004	Sheet	17 of 45

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# TV Encoder



## S-VIDEO CONN.

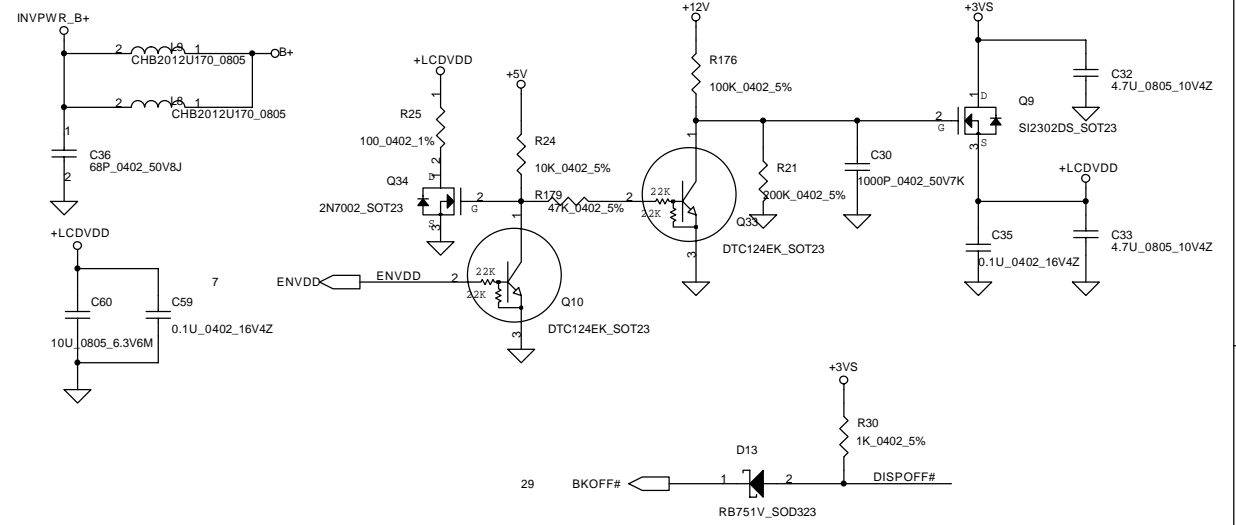
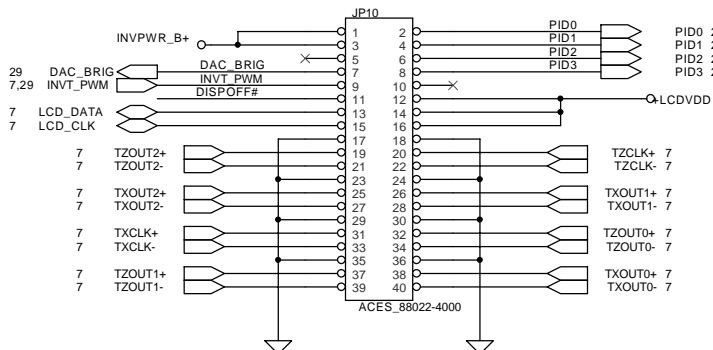


**Pull High: Default PAL**  
**Pull Low: Default NTSC**

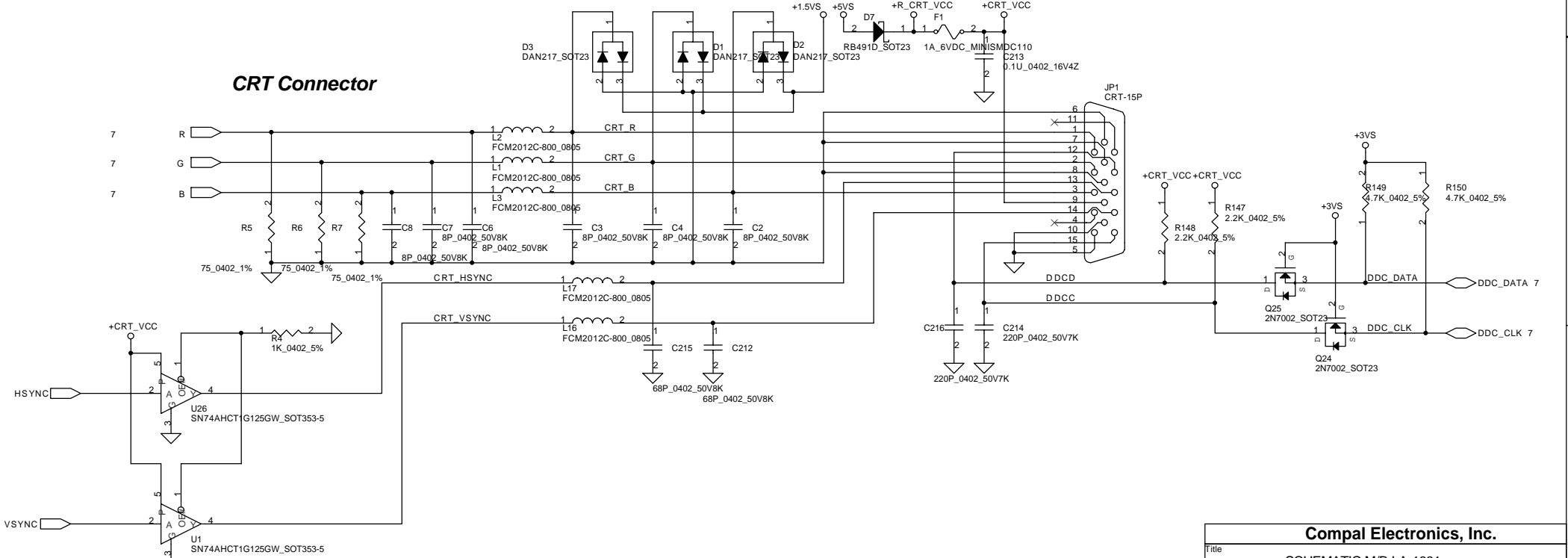
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Title SCHEMATIC M/B LA-1881		
Size	Document Number 401259	Rev B
Date:	~P星期三, 十二月 29, 2004	Sheet 18 of 45

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### LVDS Connector

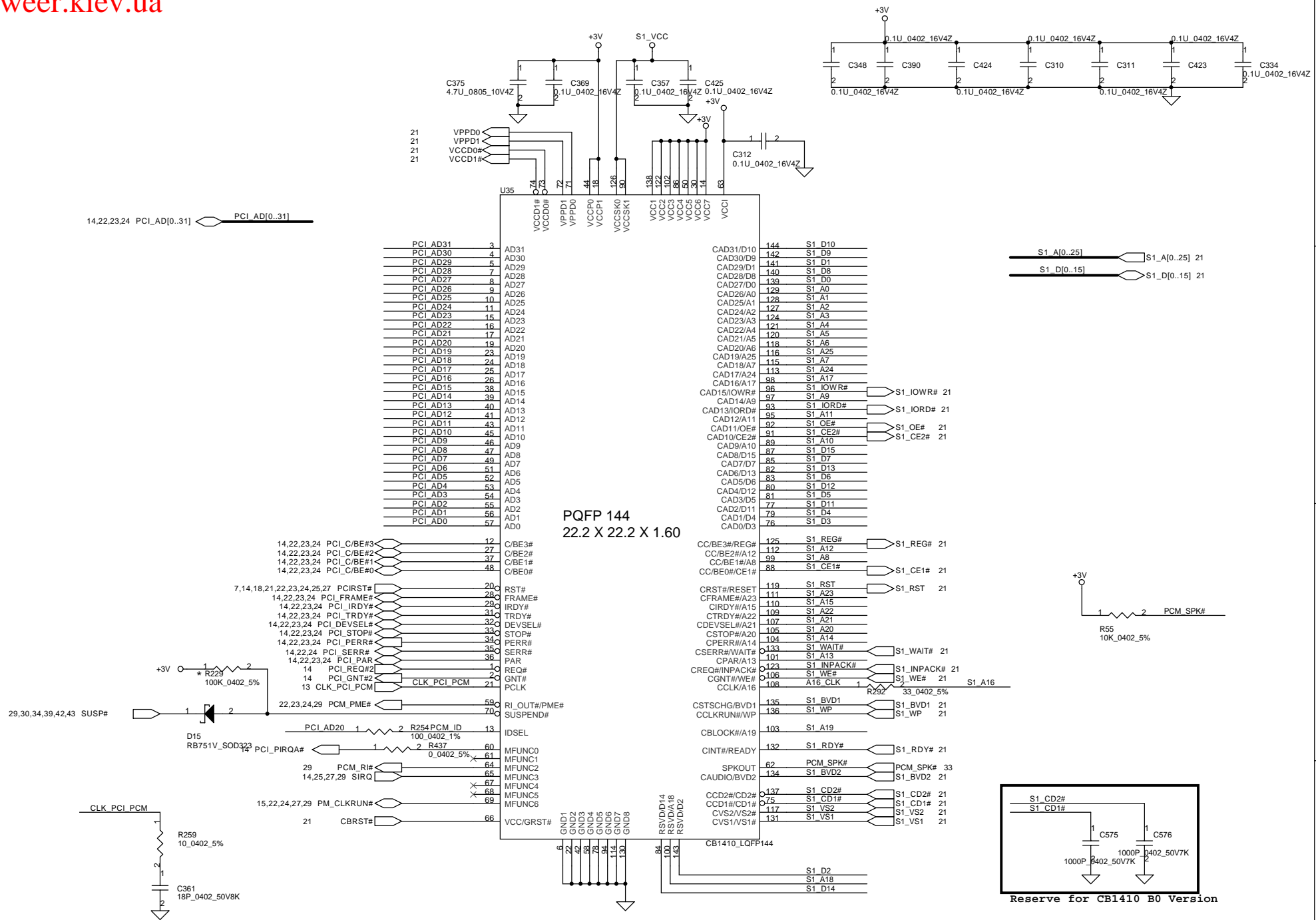


### CRT Connector

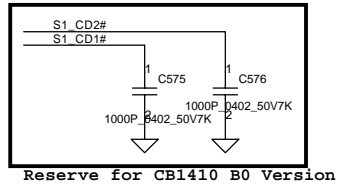


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Title <b>SCHEMATIC M/B LA-1881</b>		
Size	Document Number <b>401259</b>	Rev <b>B</b>
Date:	~P 星期三, 十二月 29, 2004	Sheet 19 of 45

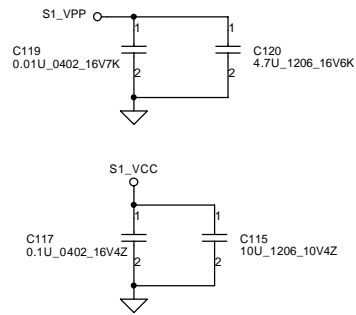
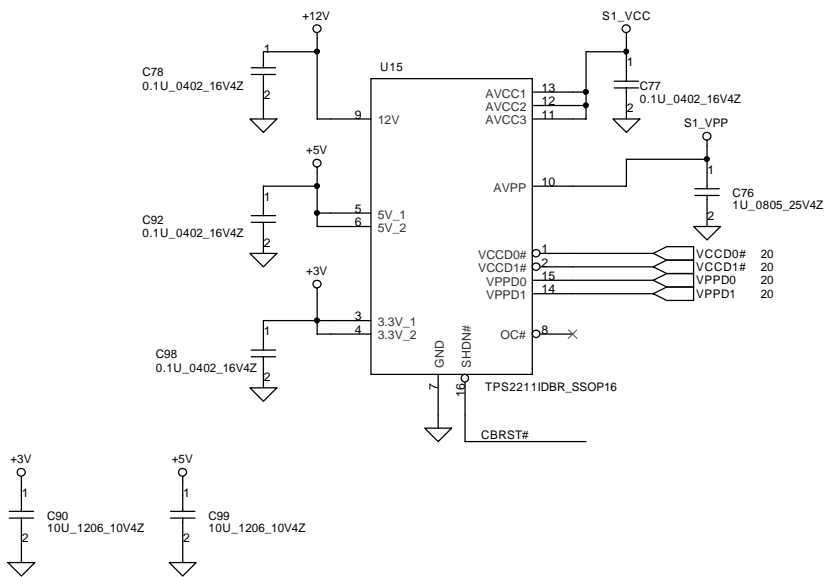


PQFP 144  
22.2 X 22.2 X 1.60

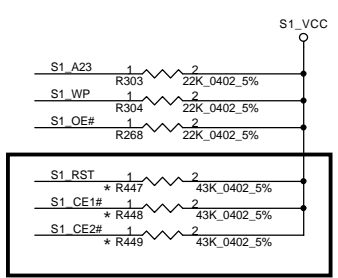
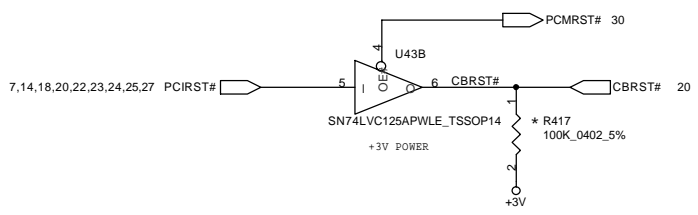
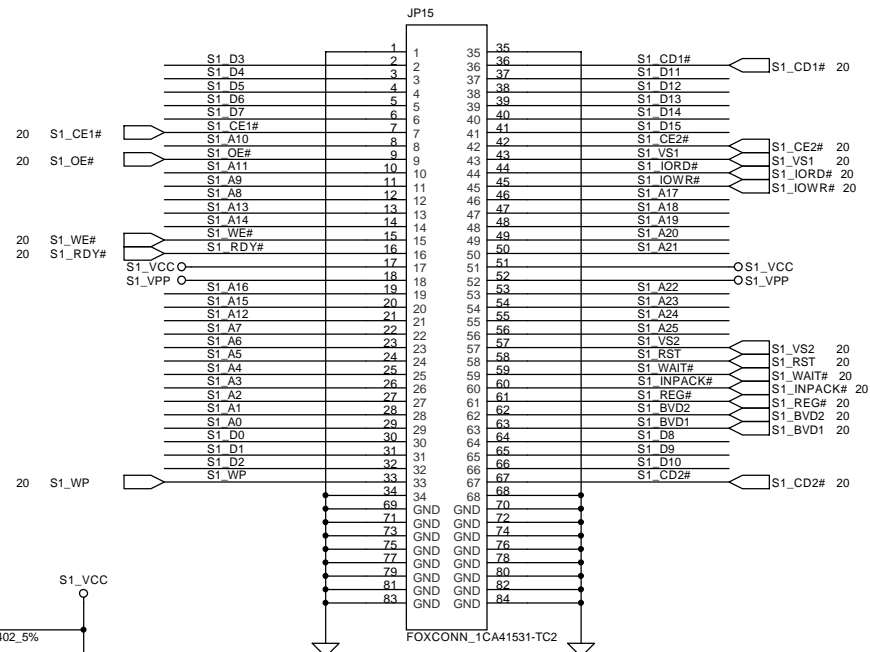


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### PCMCIA Power Controller



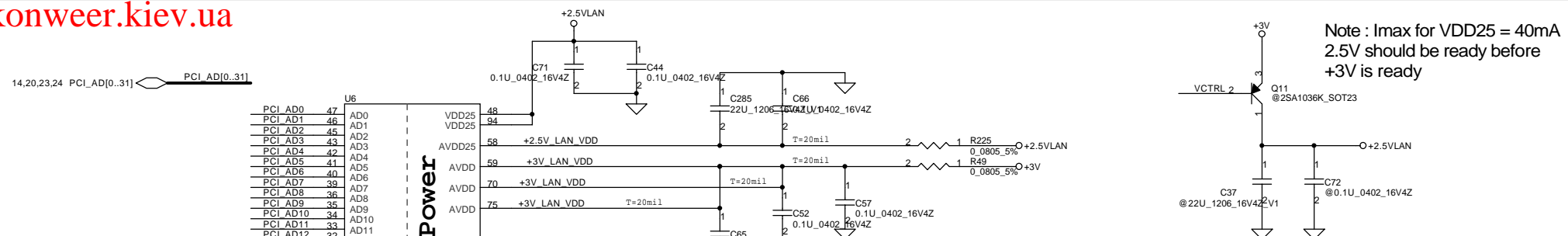
### CardBus Socket



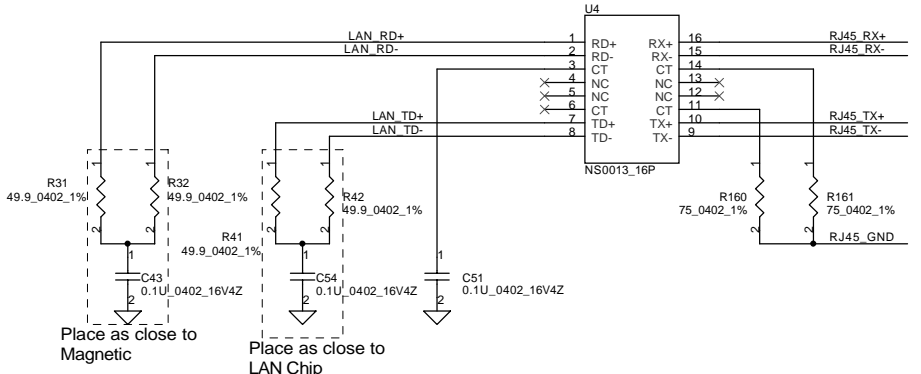
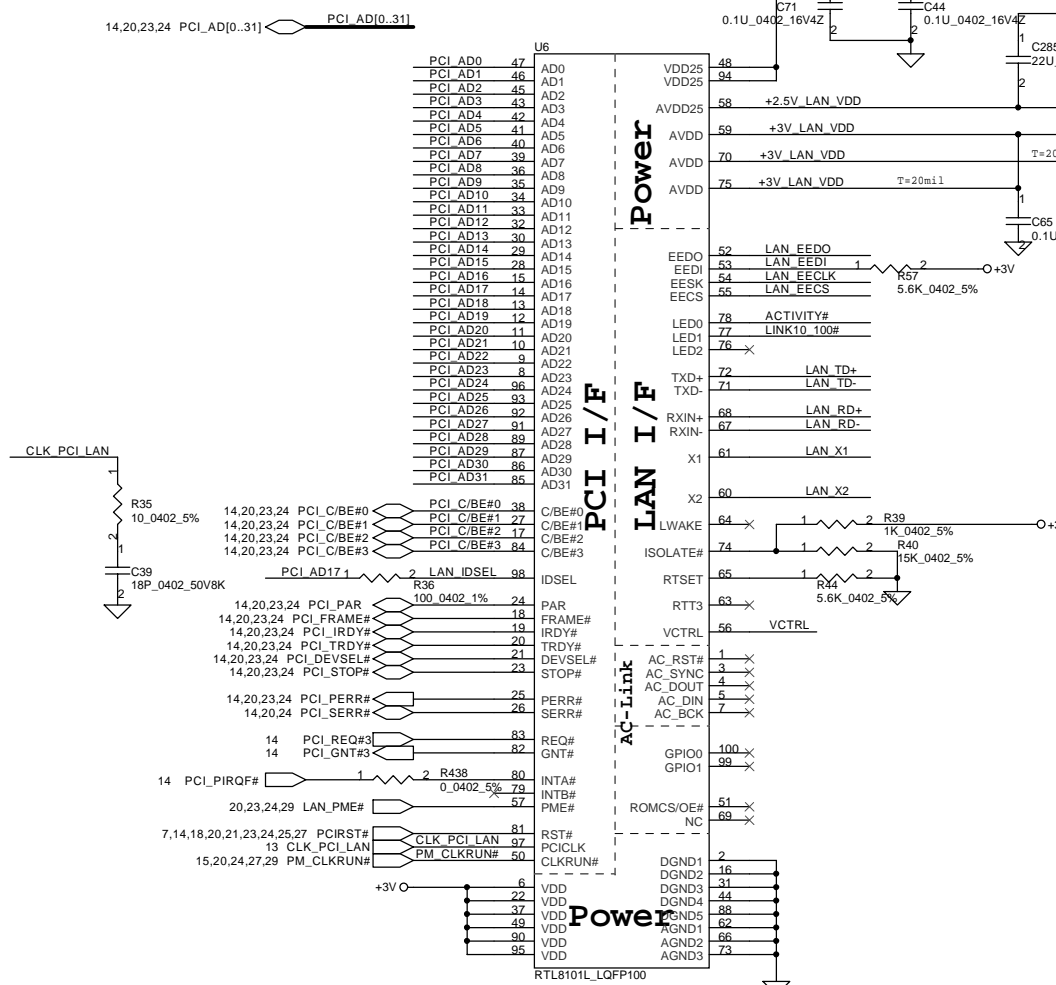
Reserve for CB1410 B0 Version

<b>Compal Electronics, Inc.</b>		
Title SCHEMATIC M/B LA-1881		
Size	Document Number 401259	Rev B
Date:	~P期三, 十二月 29, 2004	Sheet 21 of 45

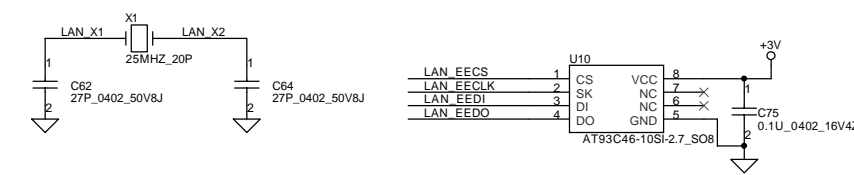
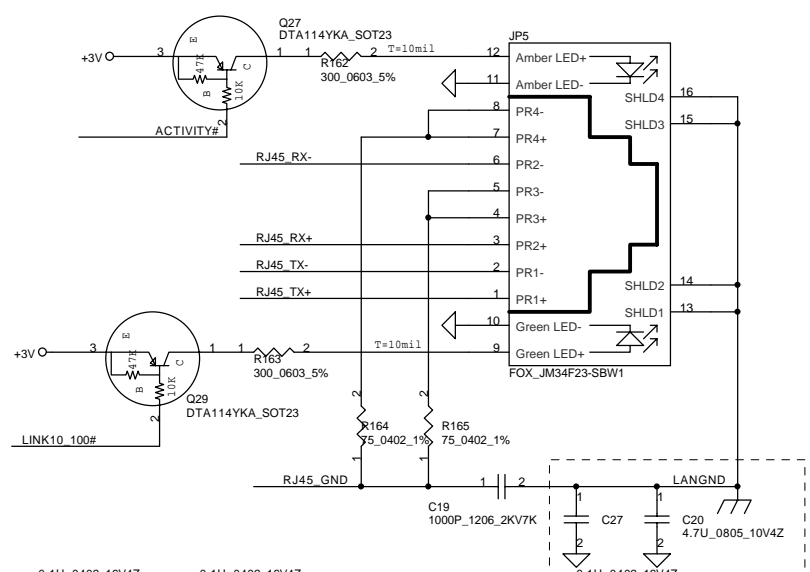
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2.5VLAN power generated by VCTRL(RT8100BL)  
2.5VLAN power generated by PIN58(RT8101L)



Place as close to Magnetic  
Place as close to LAN Chip



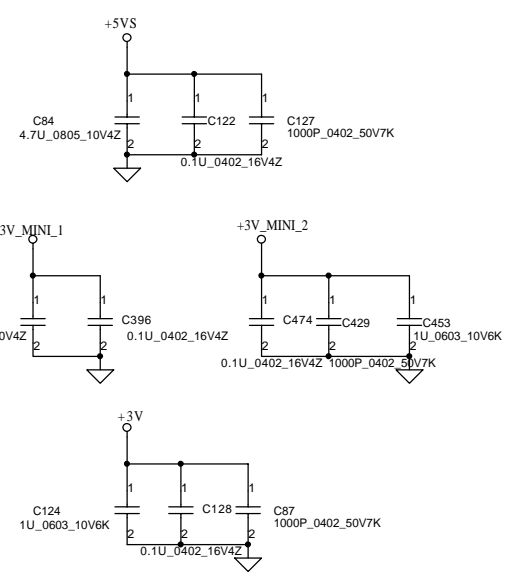
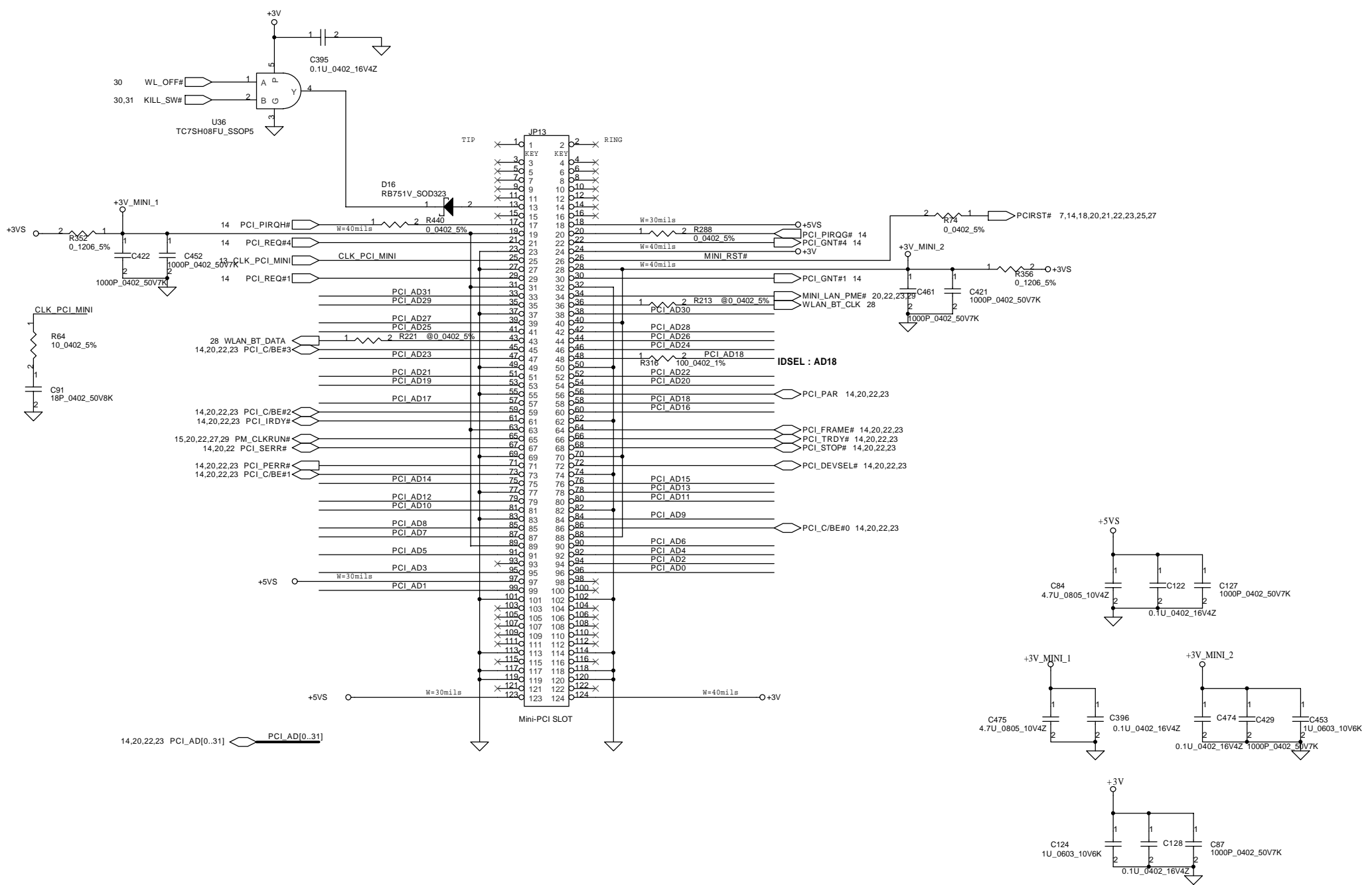
Termination plane should be copied to chassis ground and also depends on safety concern

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Title		SCHEMATIC M/B LA-1881	
Size	Document Number	401259	
Date:	Rev	B	
Date:		Rev	B
Date:		Rev	B

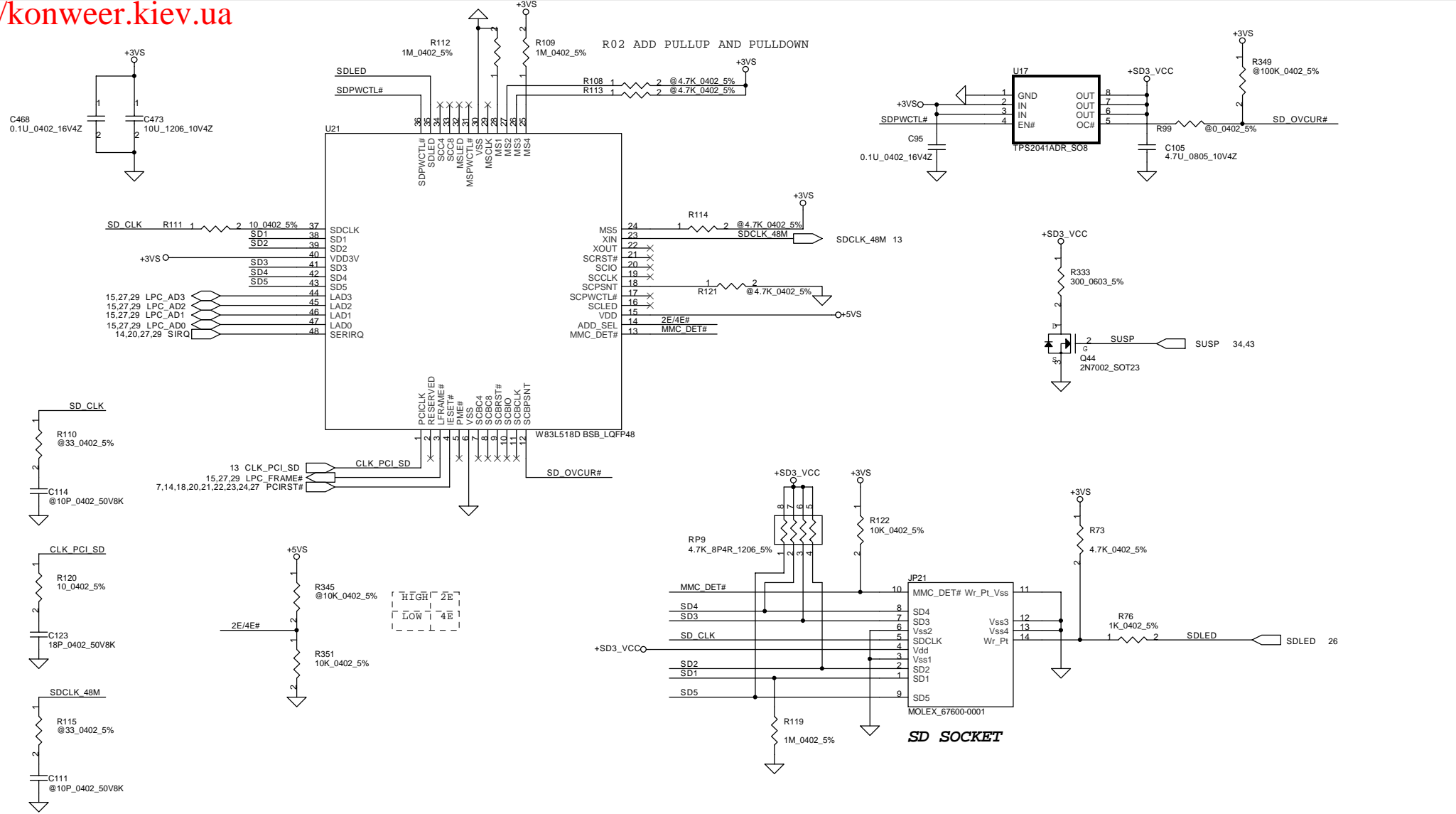
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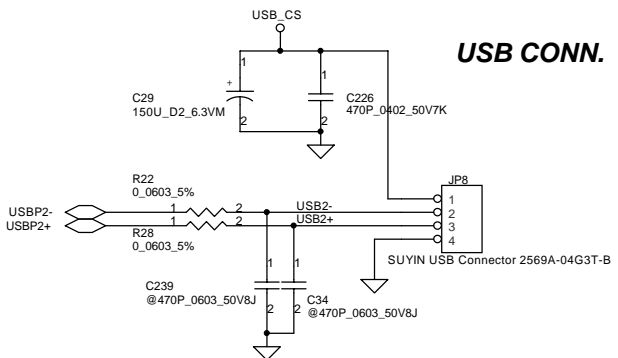
<b>Compal Electronics, Inc.</b>		
Title <b>SCHEMATIC M/B LA-1881</b>		
Size B	Document Number <b>401259</b>	Rev B
Date: ~P星期三, 十二月 29, 2004	Sheet 24	of 45



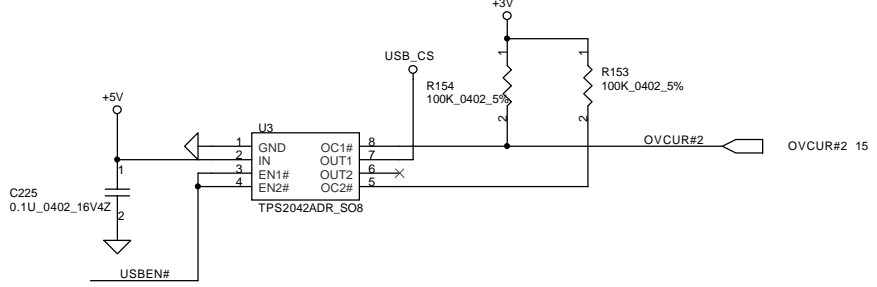
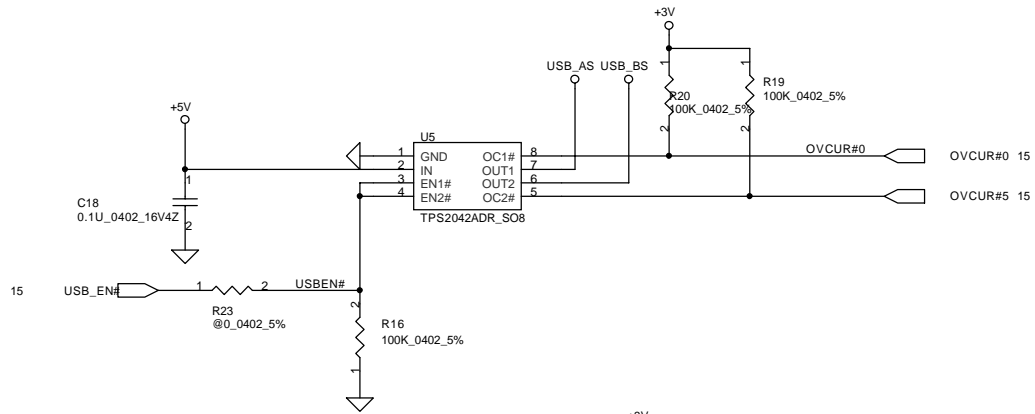
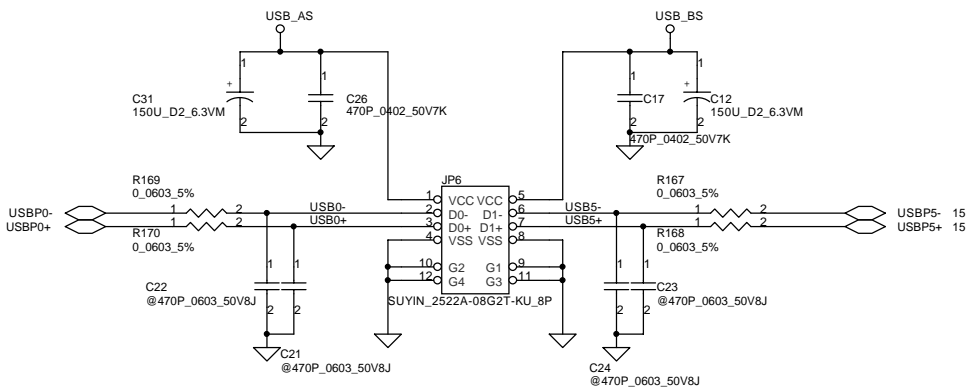
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Title		
SCHEMATIC M/B LA-1881		
Size	Document Number	Rev
B	401259	B
Date:	日期: 十二月 29, 2004	Sheet 25 of 45

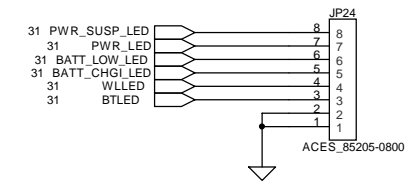
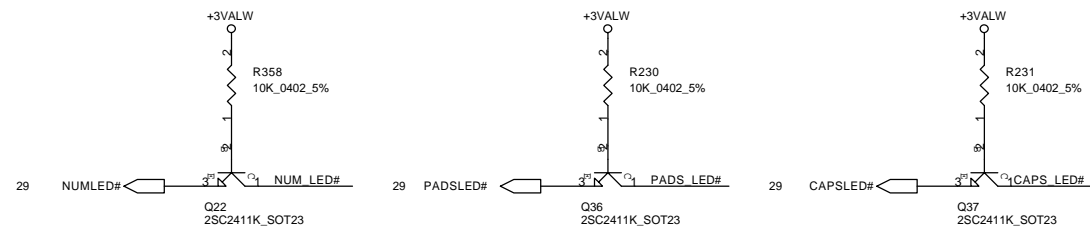
**USB CONN.**



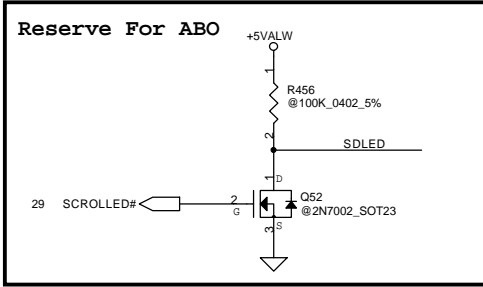
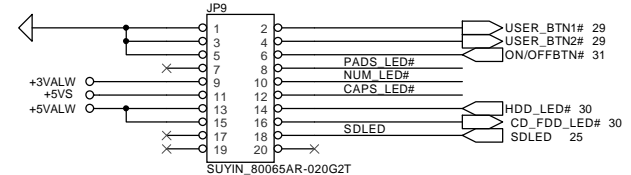
**USB CONN.**



**LED/B CONN.**



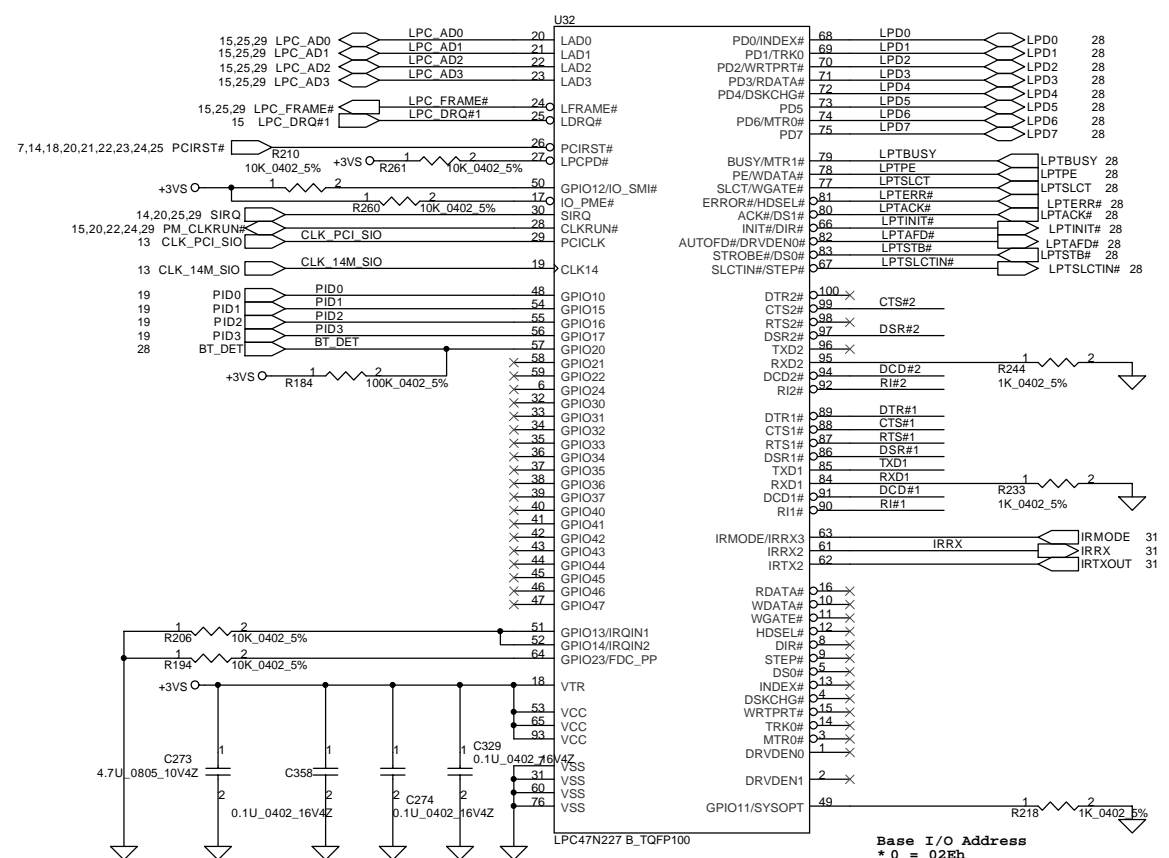
**POWER/B CONN.**



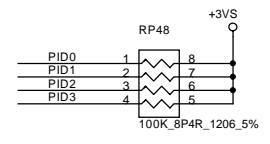
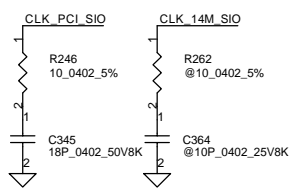
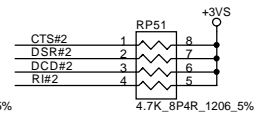
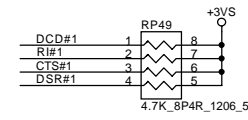
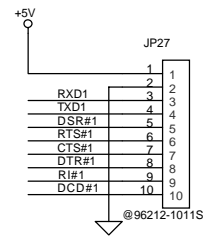
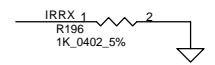
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Title	SCHEMATIC M/B LA-1881	
Size	Document Number	Rev
B	401259	B
Date:	~P 星期三, 十二月 29, 2004	Sheet 26 of 45

# SUPER I/O SMsC FDC47N227



**Base I/O Address**  
 \* 0 = 02Eh  
 1 = 04Eh



**Compal Electronics, Inc.**

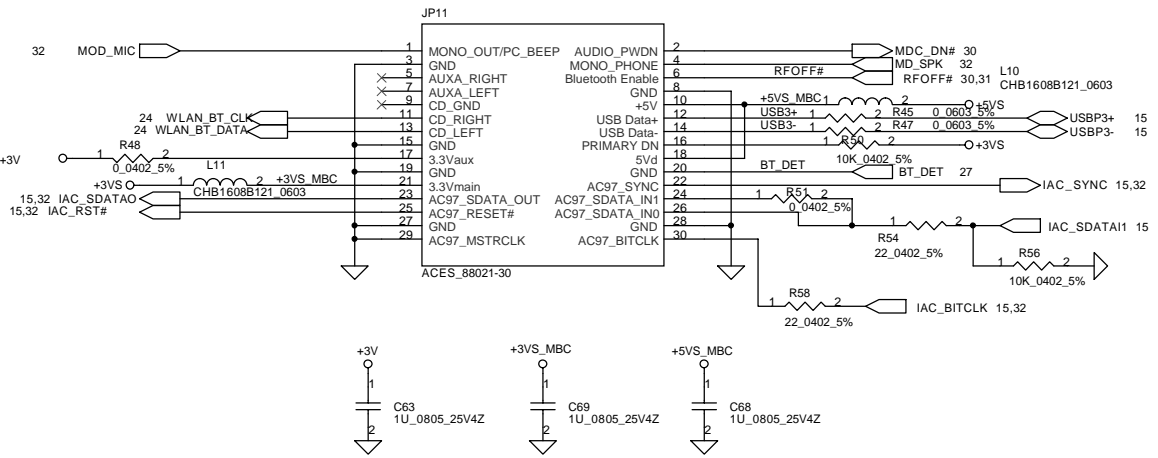
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Size B Document Number 401259 Rev B

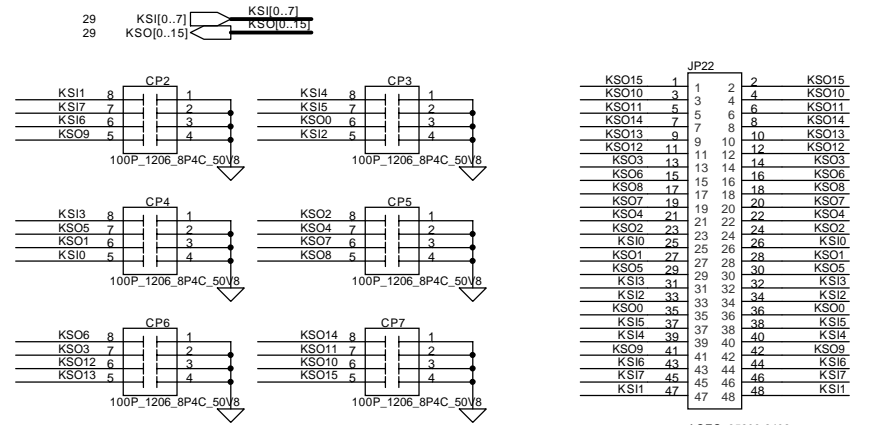
Date: 2004年12月29日 Sheet 27 of 45

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**MBC CONN.**

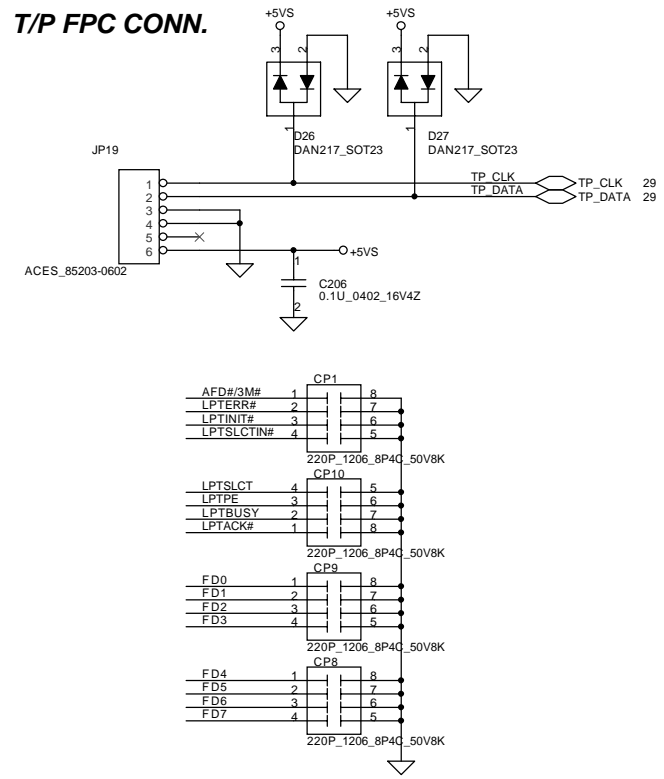


**INT\_KBD CONN.**

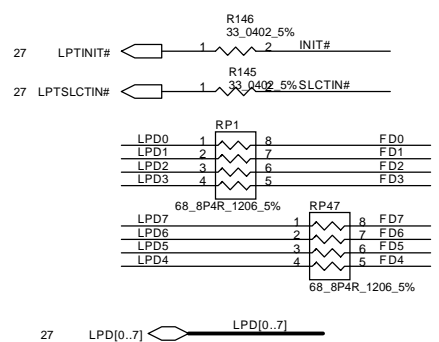
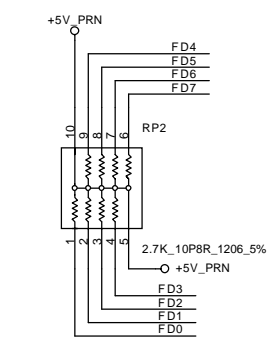
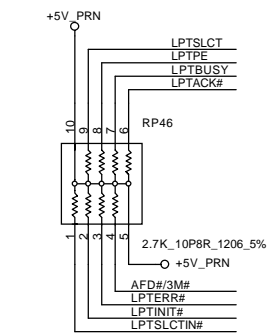
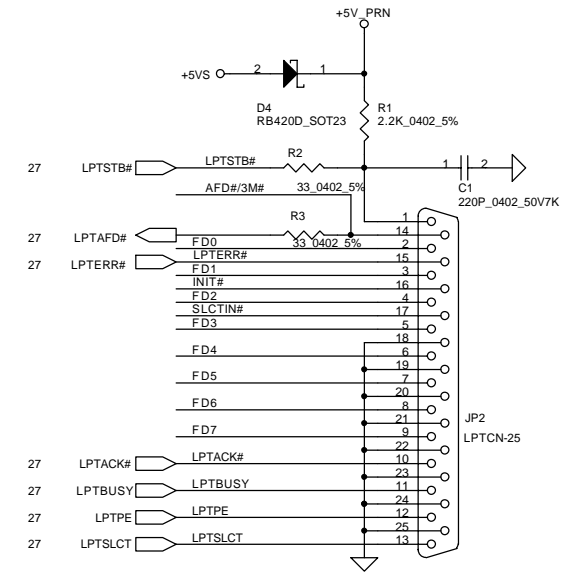


As close as possible to K/B connector

**T/P FPC CONN.**



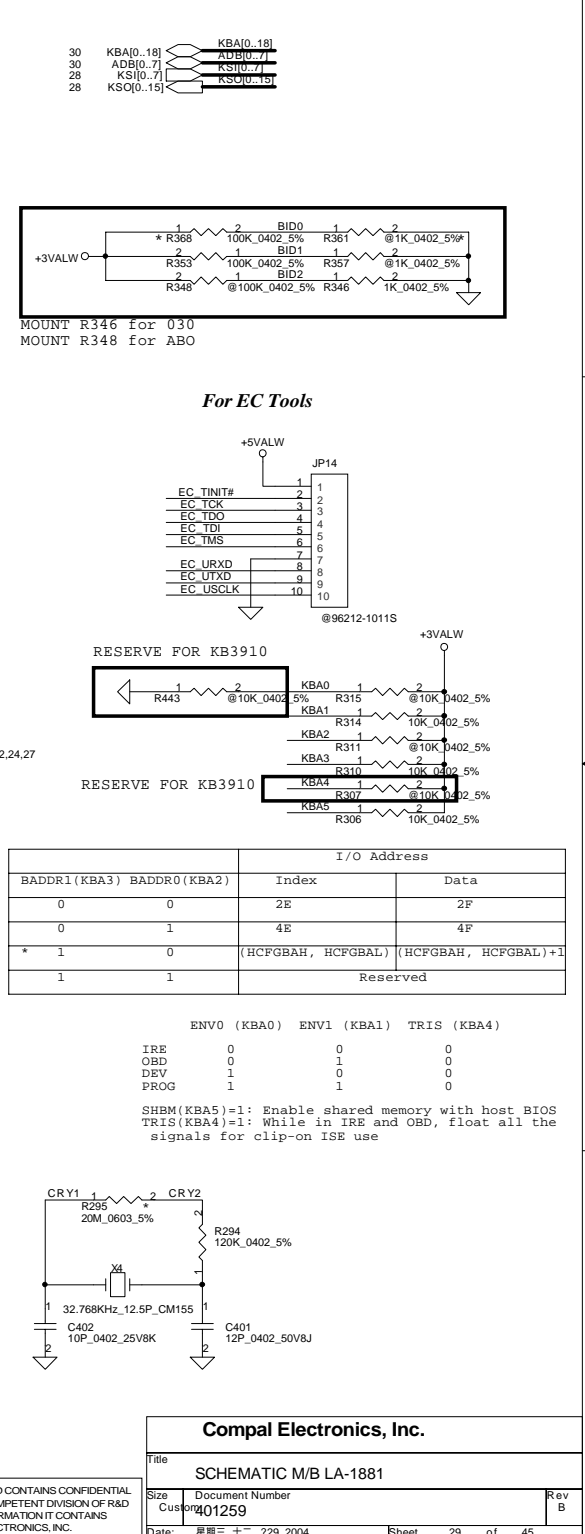
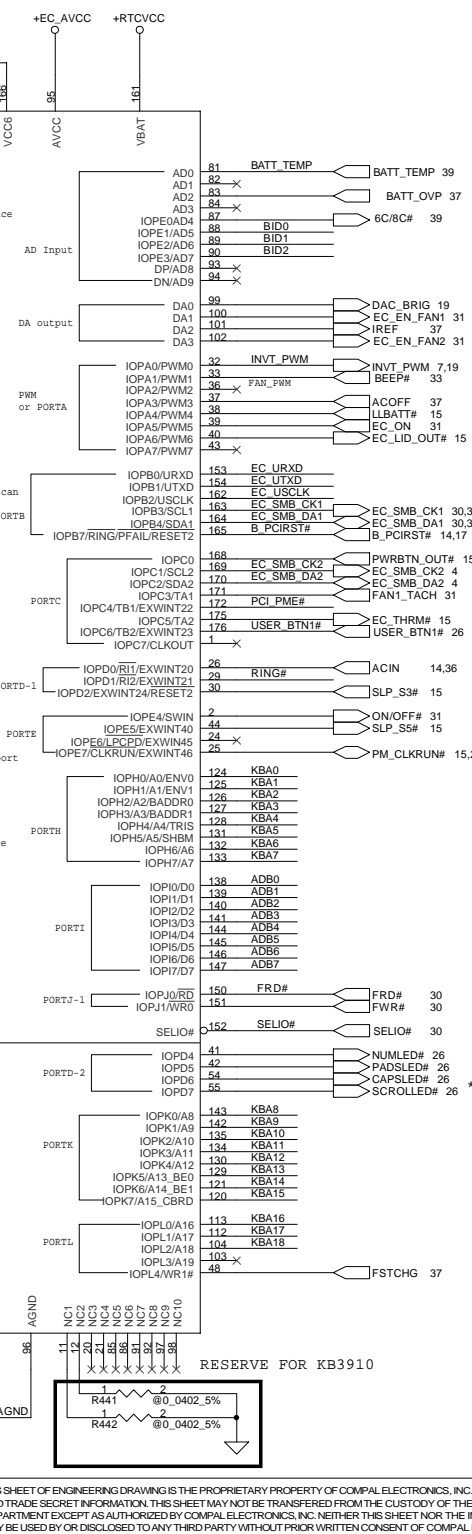
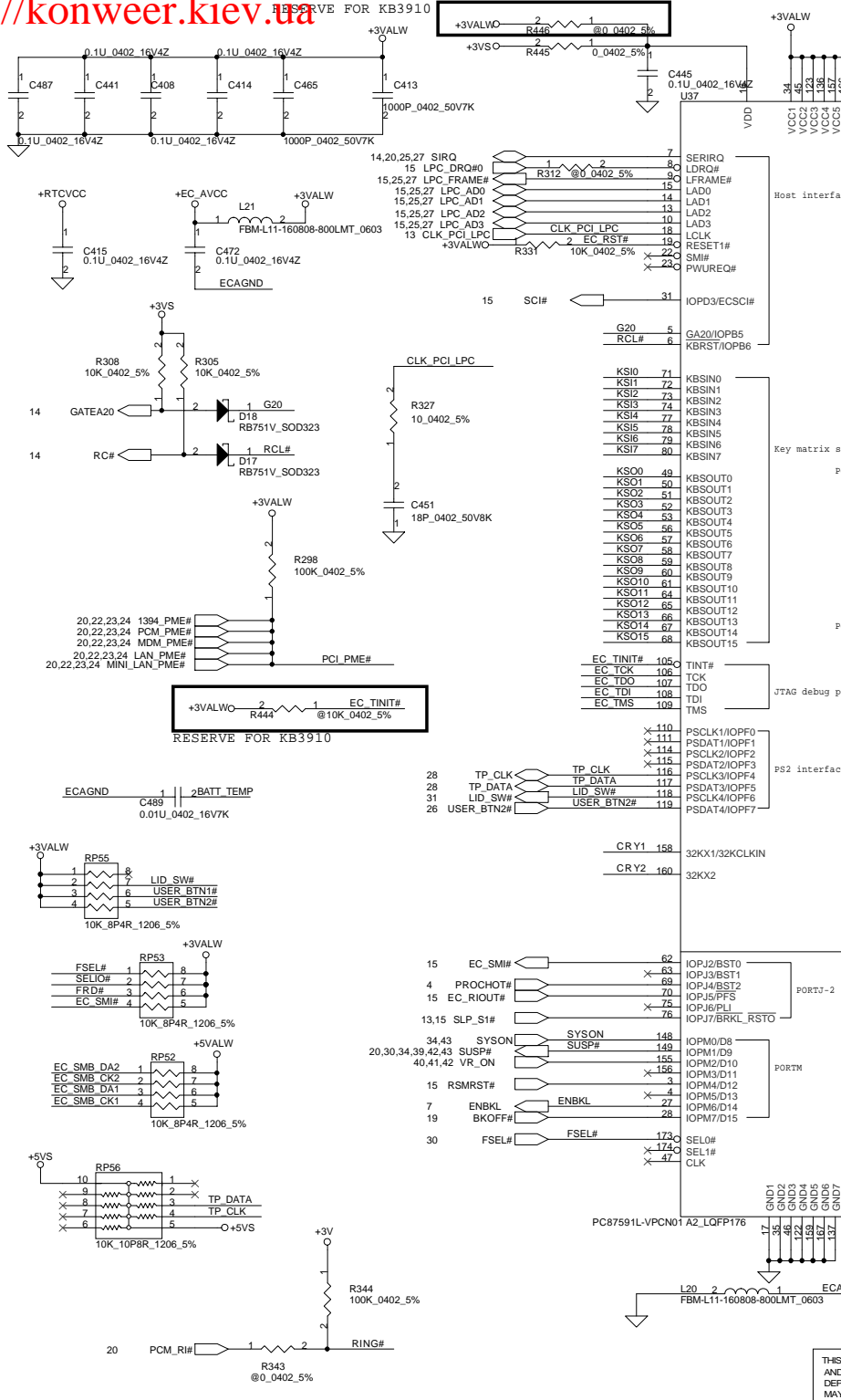
**PARALLEL PORT**



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Title	SCHEMATIC M/B LA-1881	
Size	Document Number	Rev
	401259	B
Date:	~P 星期三, 十二月 29, 2004	Sheet 28 of 45

RESERVE FOR KB3910



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Title: SCHEMATIC M/B LA-1881

Size: Document Number: 401259

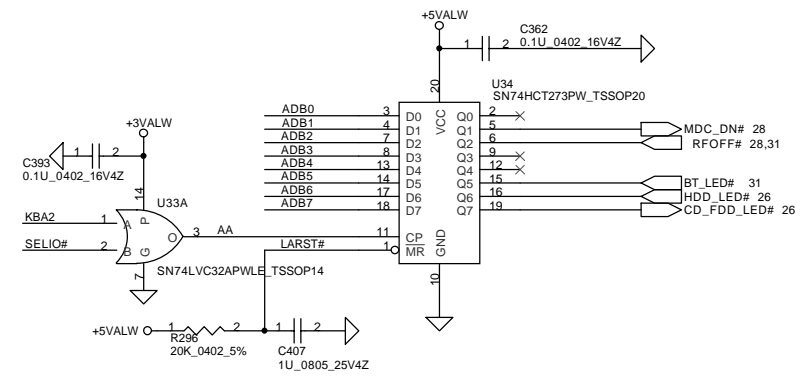
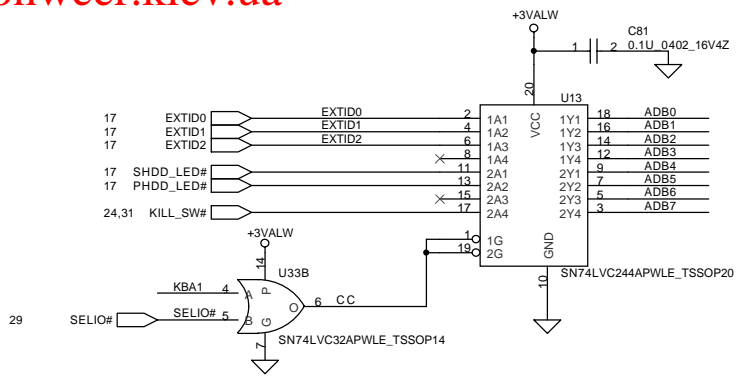
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Date: 星期二 十二月 29, 2004

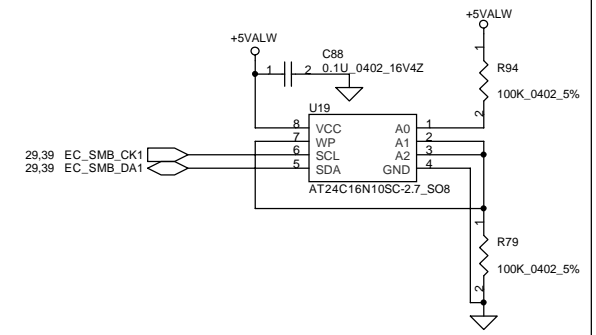
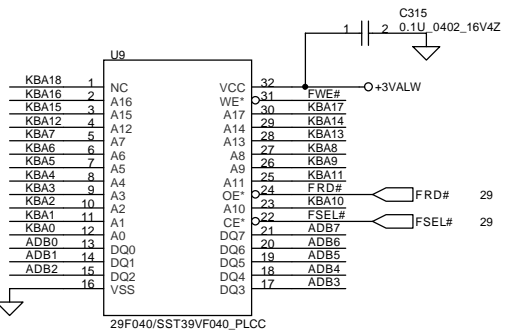
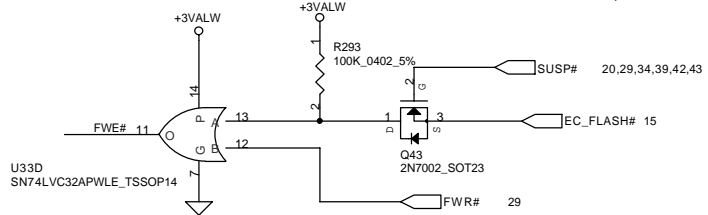
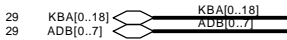
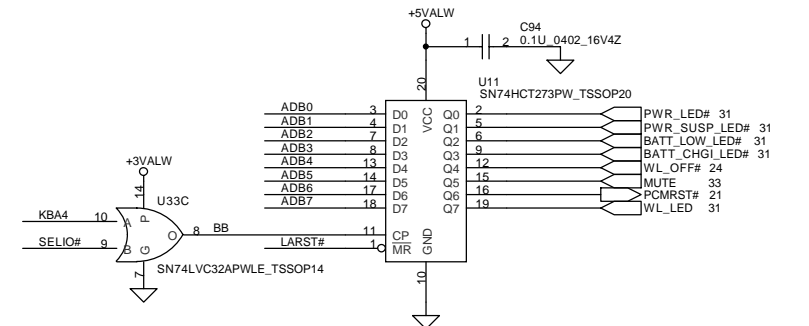
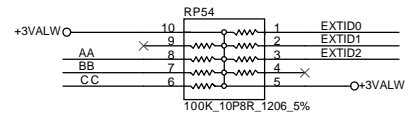
Sheet: 29 of 45

Rev: B

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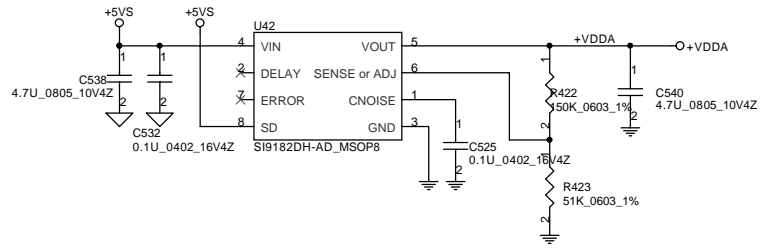
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0	0	1	CDROM
0	1	1	2ndHDD
1	1	1	NO Module



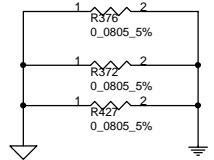
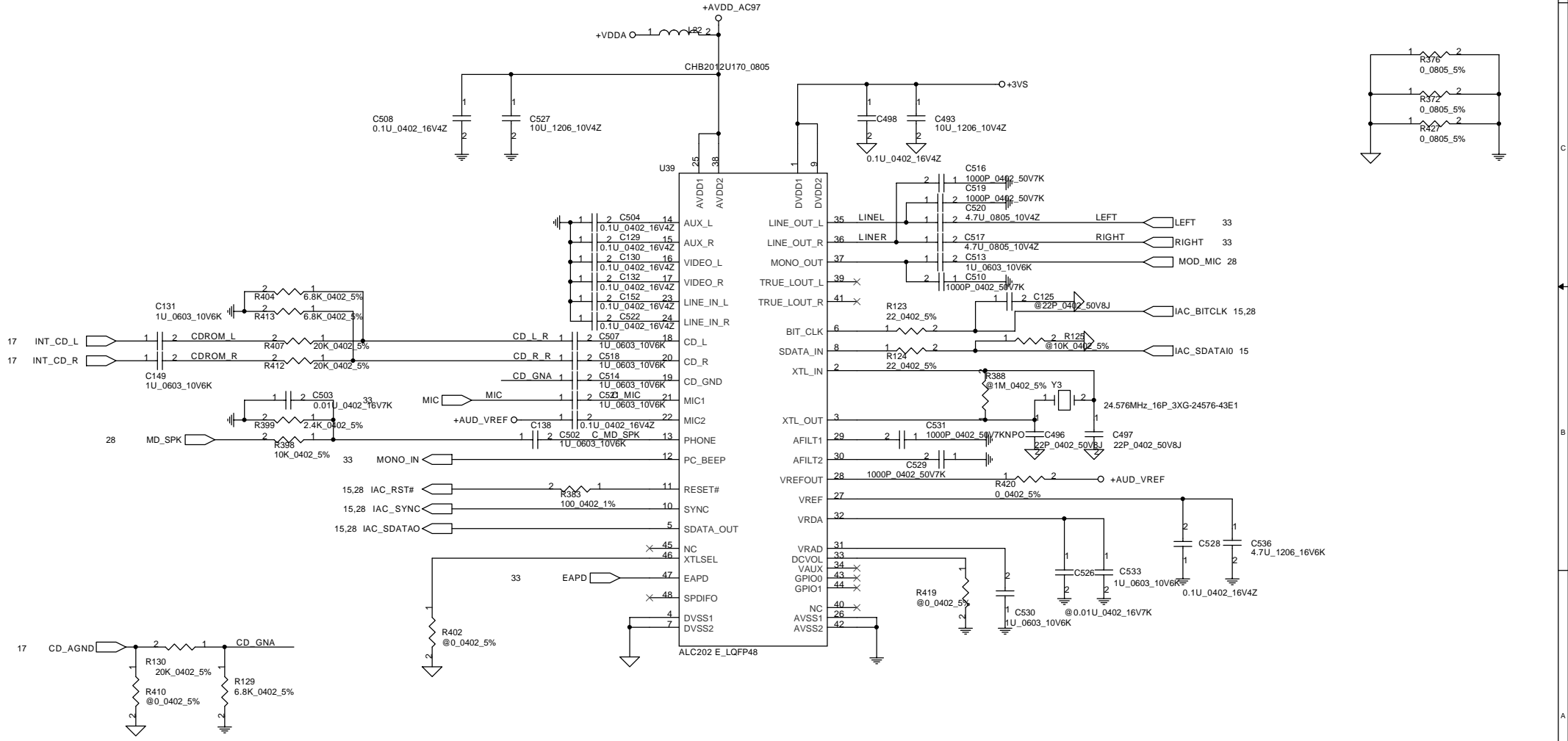
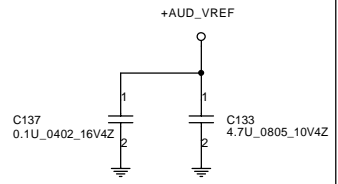
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AC97 Codec



R402	MODE
Stuff	14.318MHz External
No-Stuff	24.576MHz Crystal or External Colck



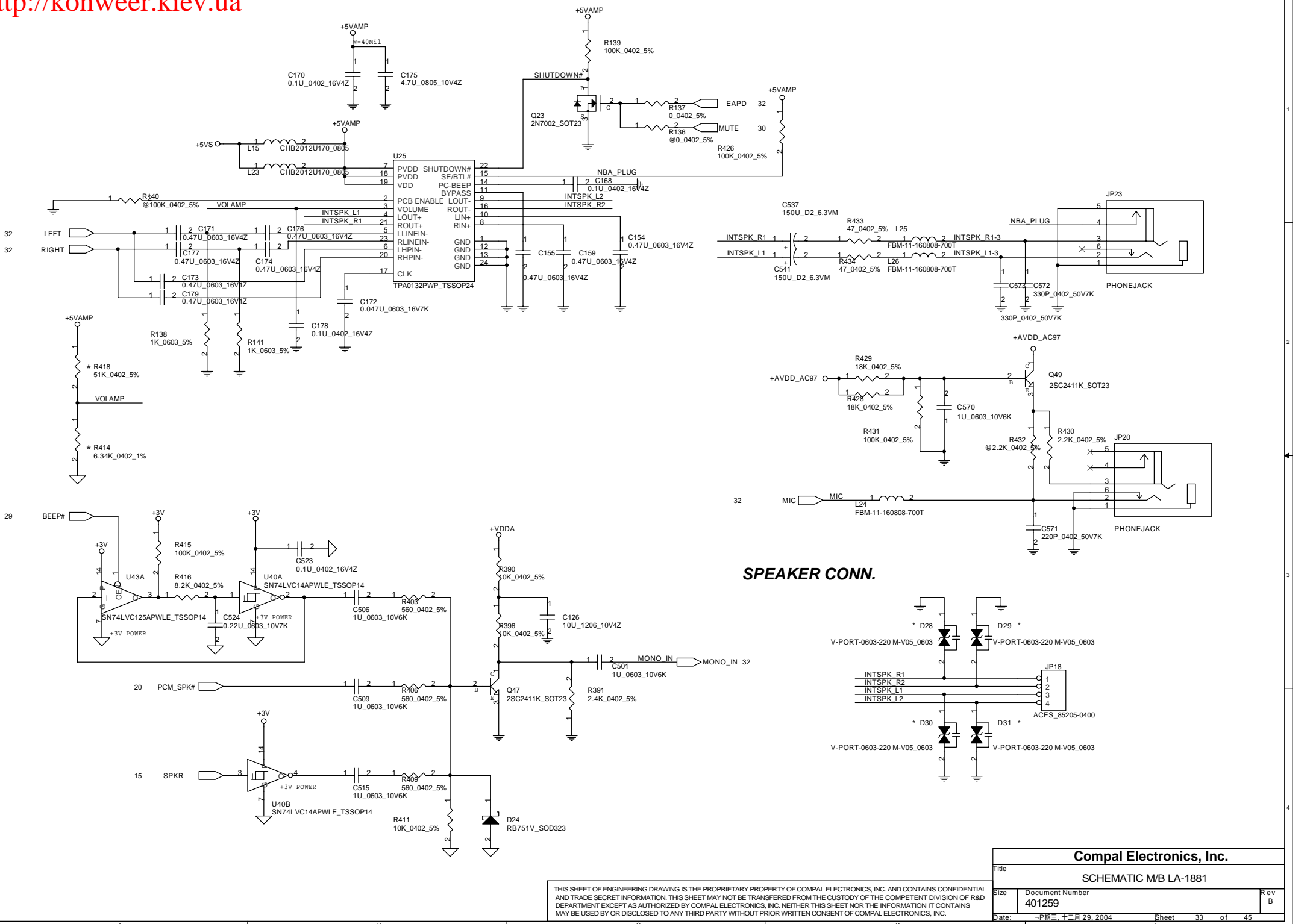
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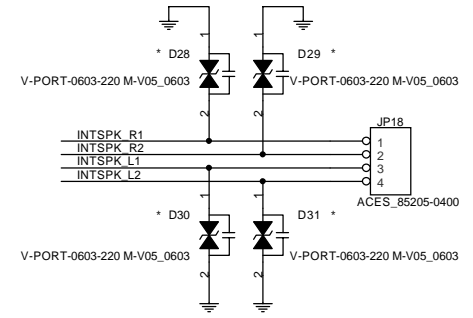
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Date: ~P星期三, 十二月 29, 2004 Sheet 32 of 45

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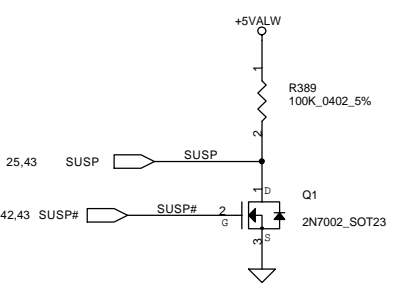
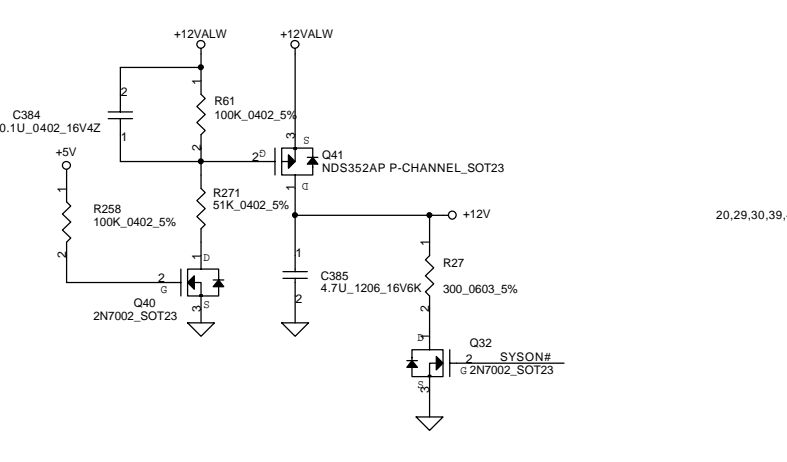
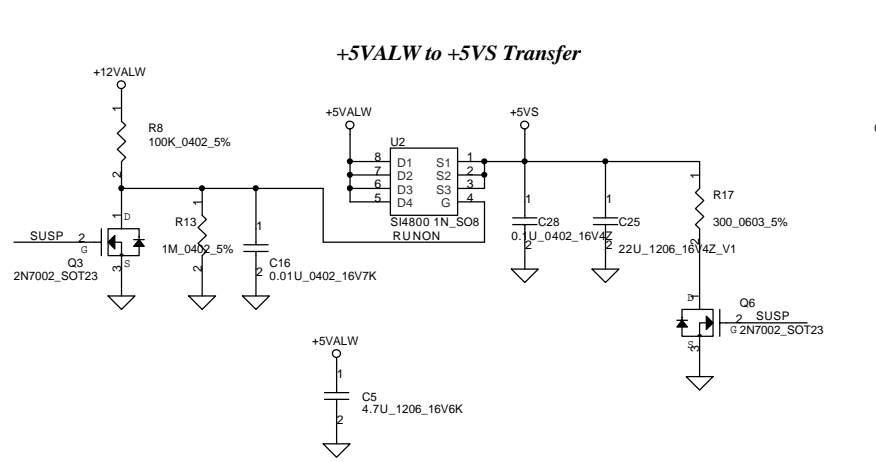
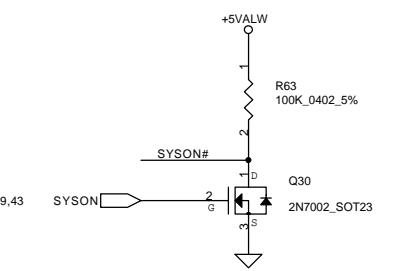
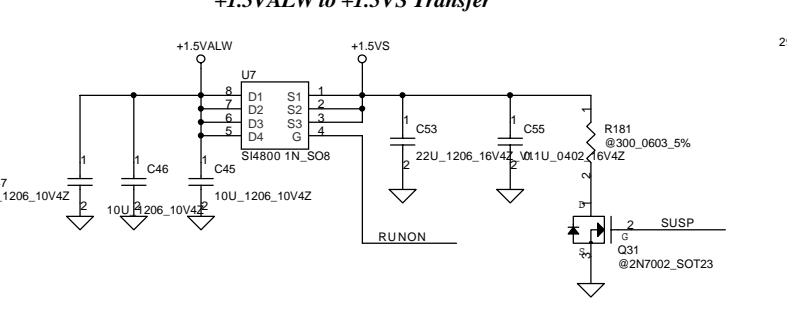
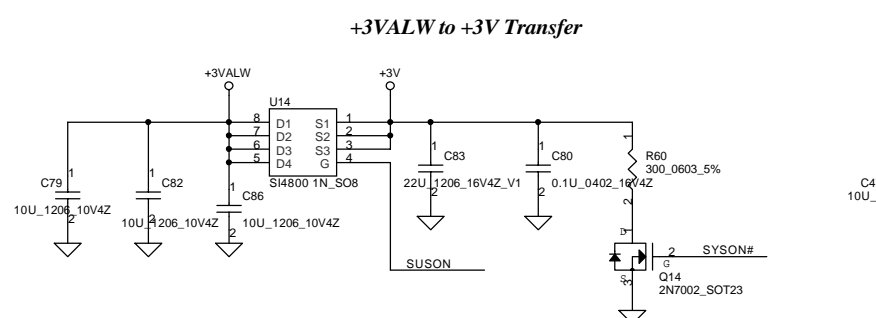
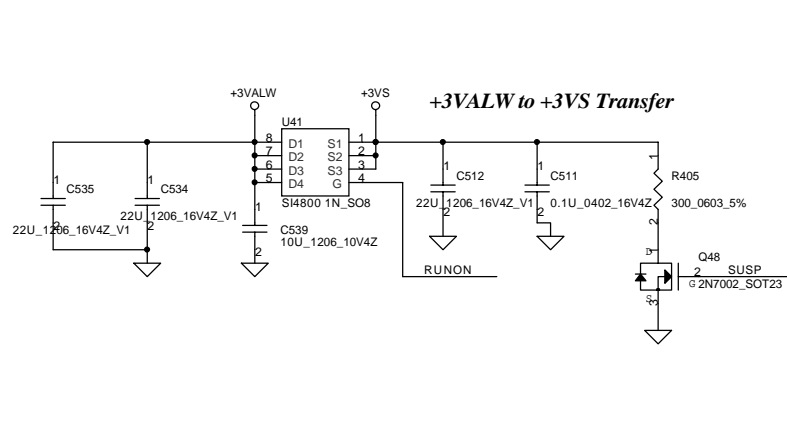
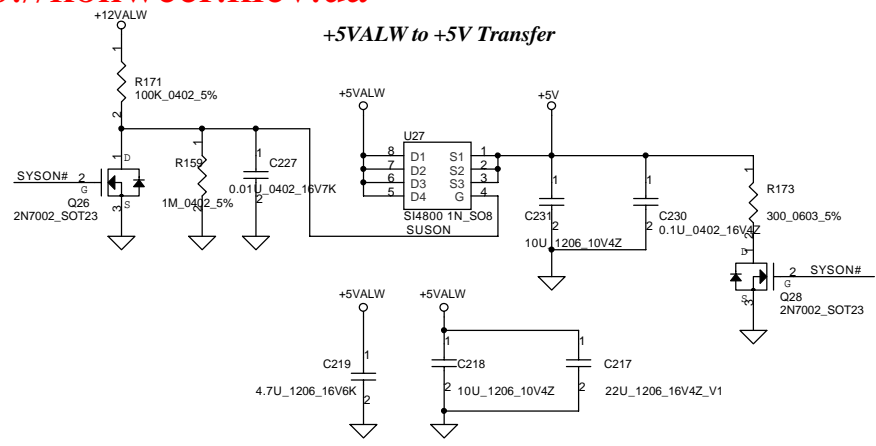


**SPEAKER CONN.**



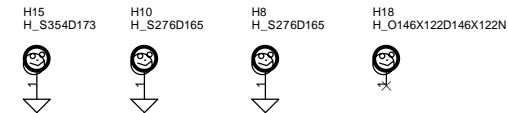
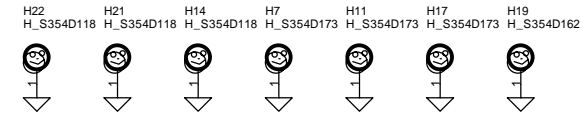
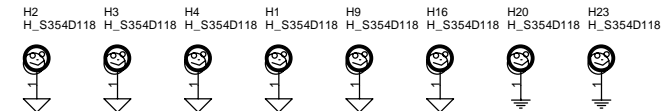
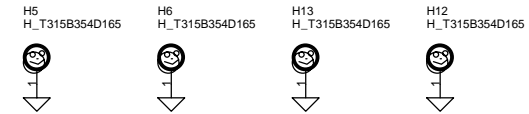
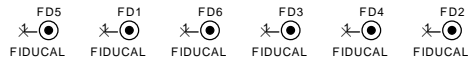
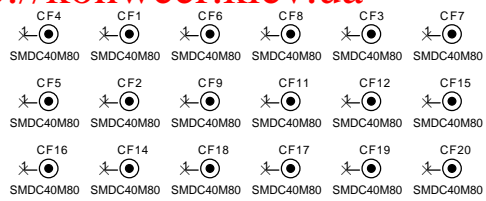
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Title <b>SCHEMATIC M/B LA-1881</b>		
Size	Document Number <b>401259</b>	Rev <b>B</b>
Date:	~P 星期三, 十二月 29, 2004	Sheet 33 of 45

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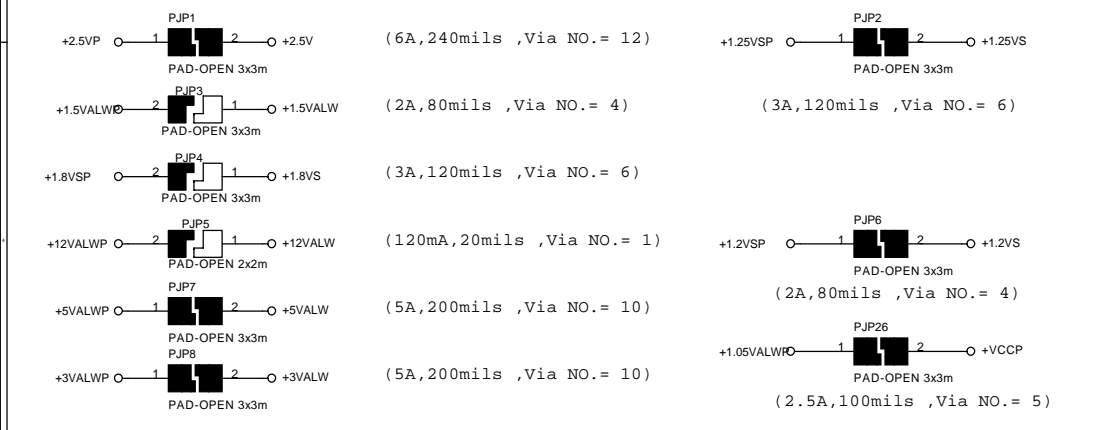
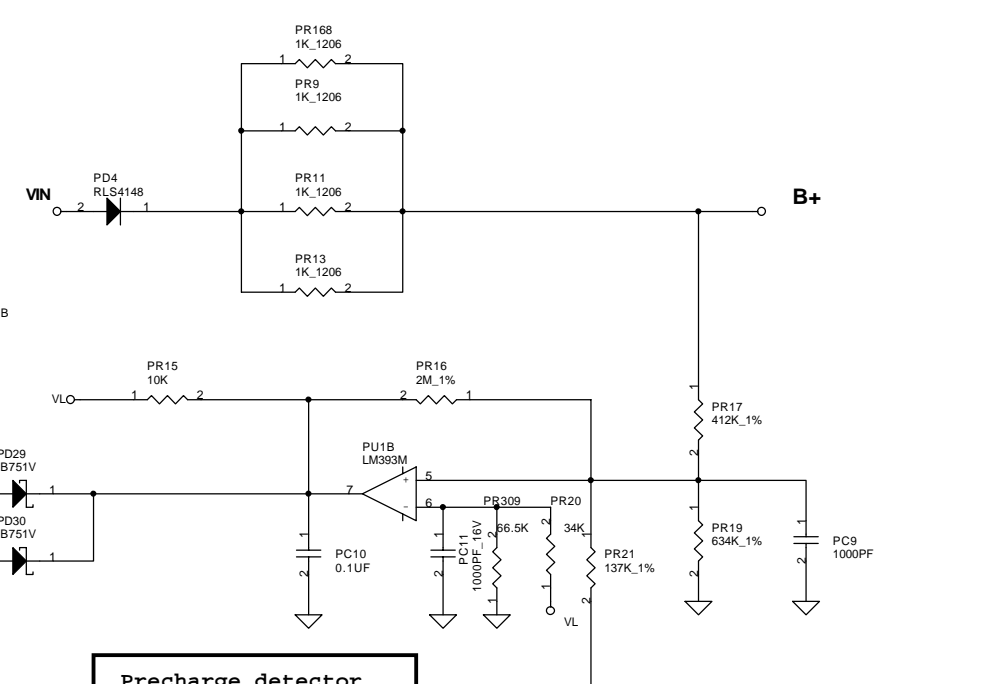
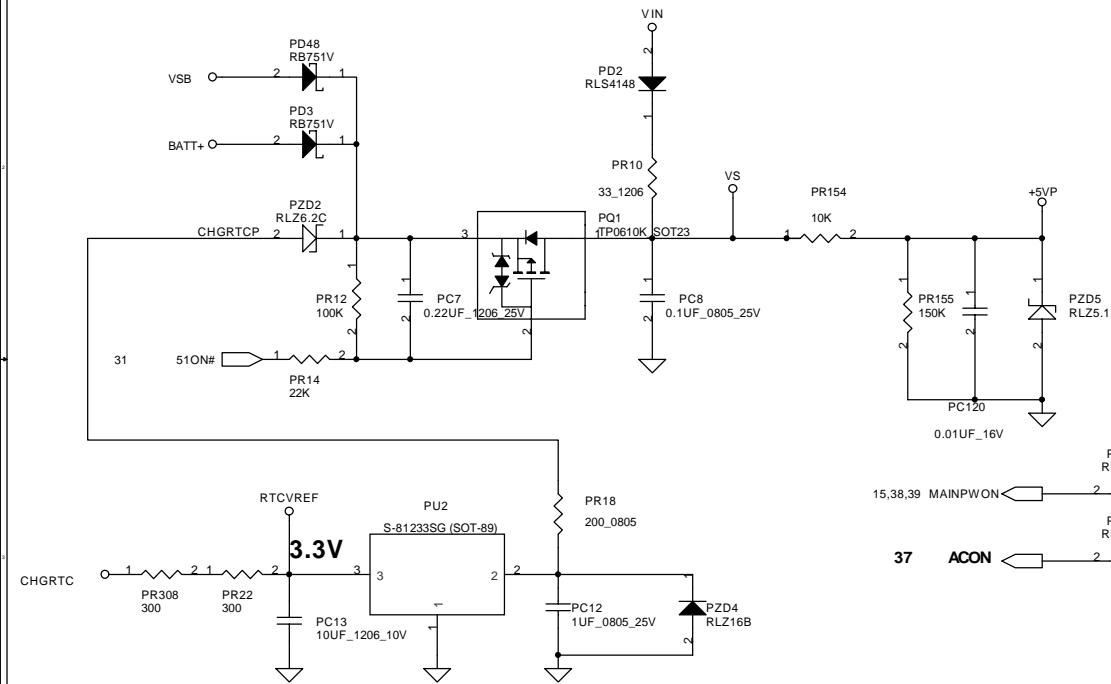
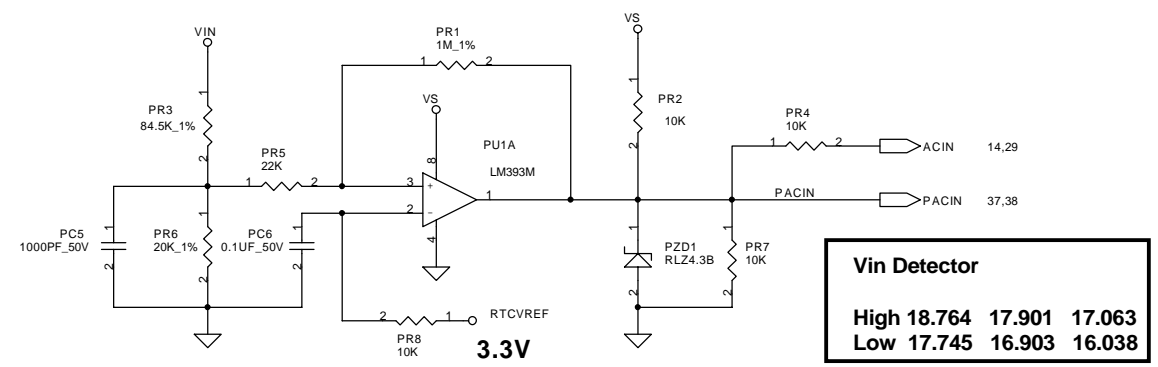
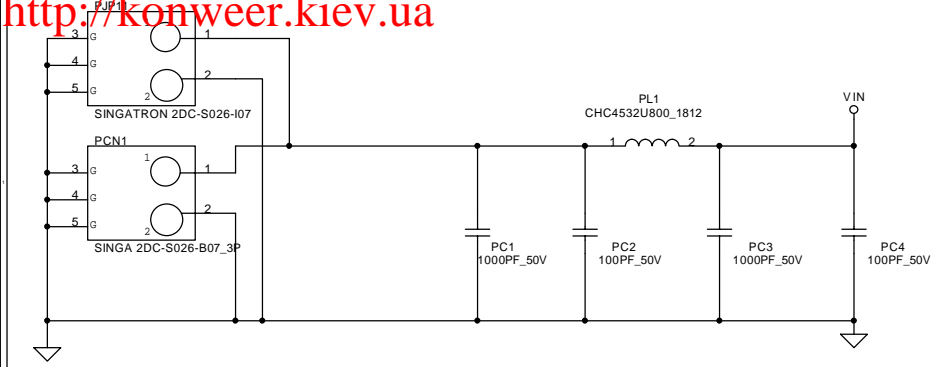
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Title SCHEMATIC M/B LA-1881		
Size	Document Number 401259	Rev B
Date	~P 星期三, 十二月 29, 2004	
	Sheet 34	of 45



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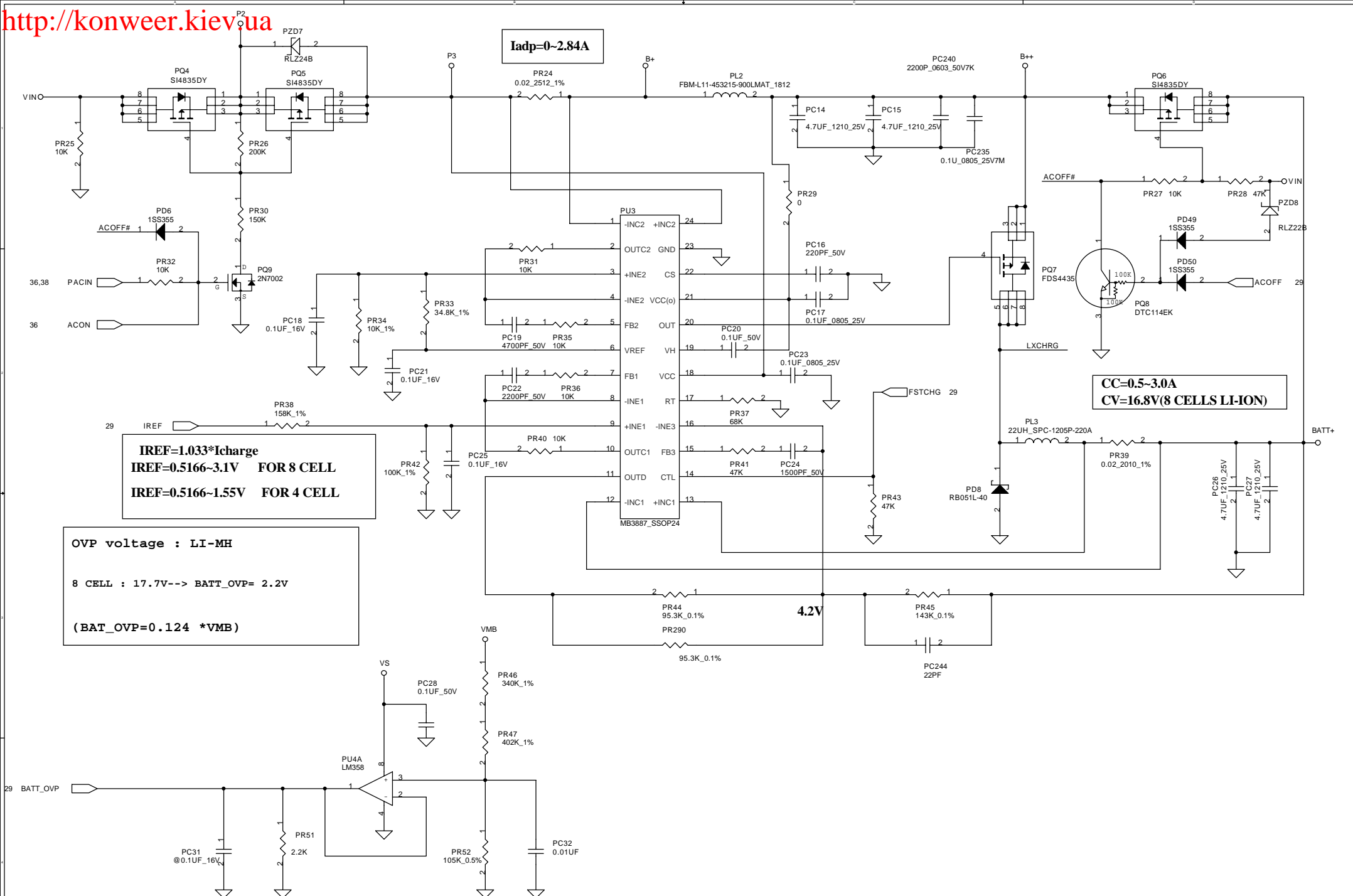
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Title		
SCHEMATIC M/B LA-1881		
Size	Document Number	Rev
	401259	B
Date:	~P 星期三, 十二月 29, 2004	Sheet 35 of 45



Precharge detector	AC ADAPTOR	16.69	16.05	15.42
		15.6	15.02	14.35

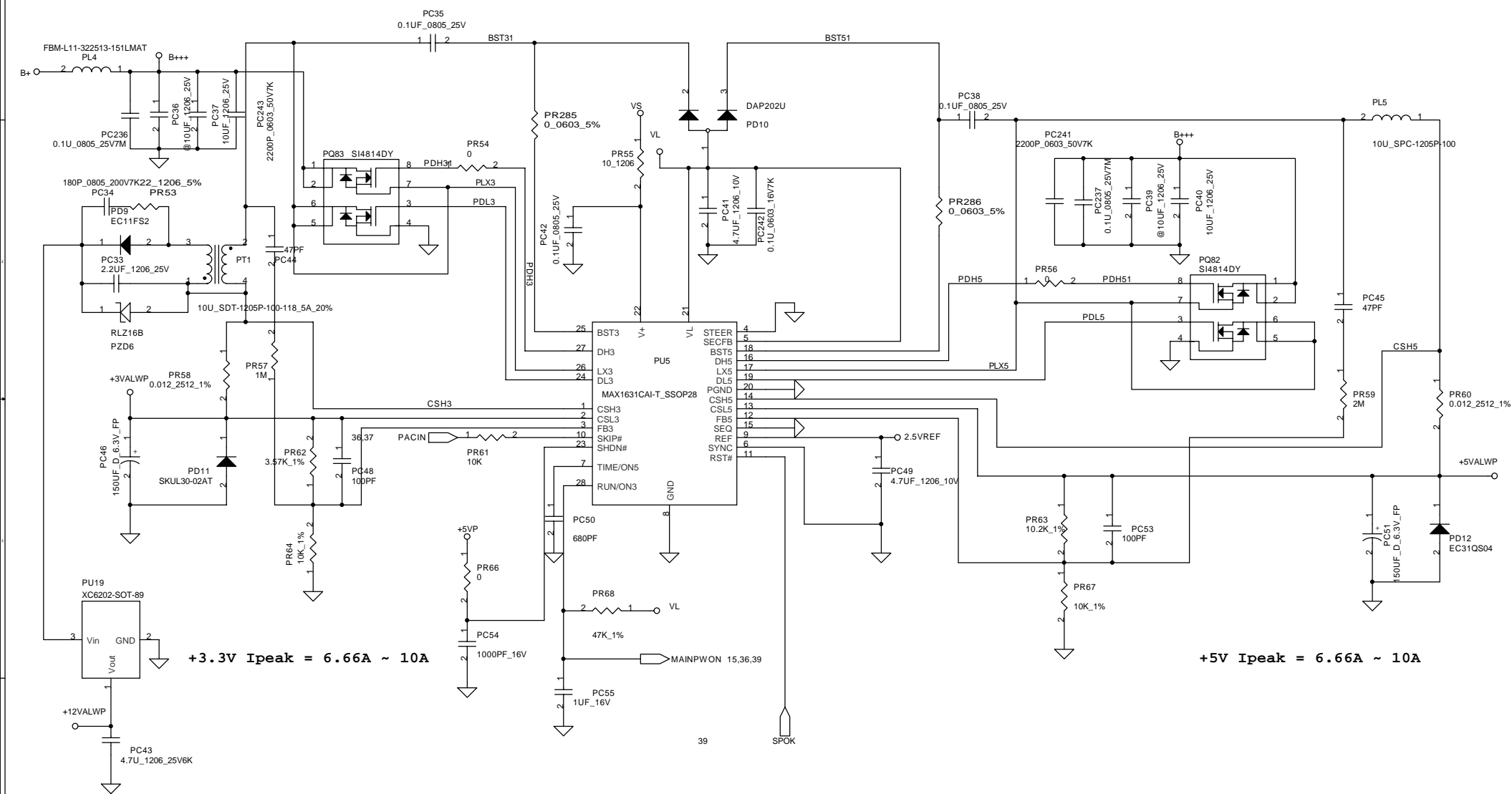
Precharge detector	AC ADAPTOR	6.33	6.12	5.92
		5.227	5.09	4.85

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Size	Document Number	R ev
<b>B</b>	<b>401259</b>	<b>B</b>
Date:	-P期三,十二月29,2004	Sheet 37 of 45

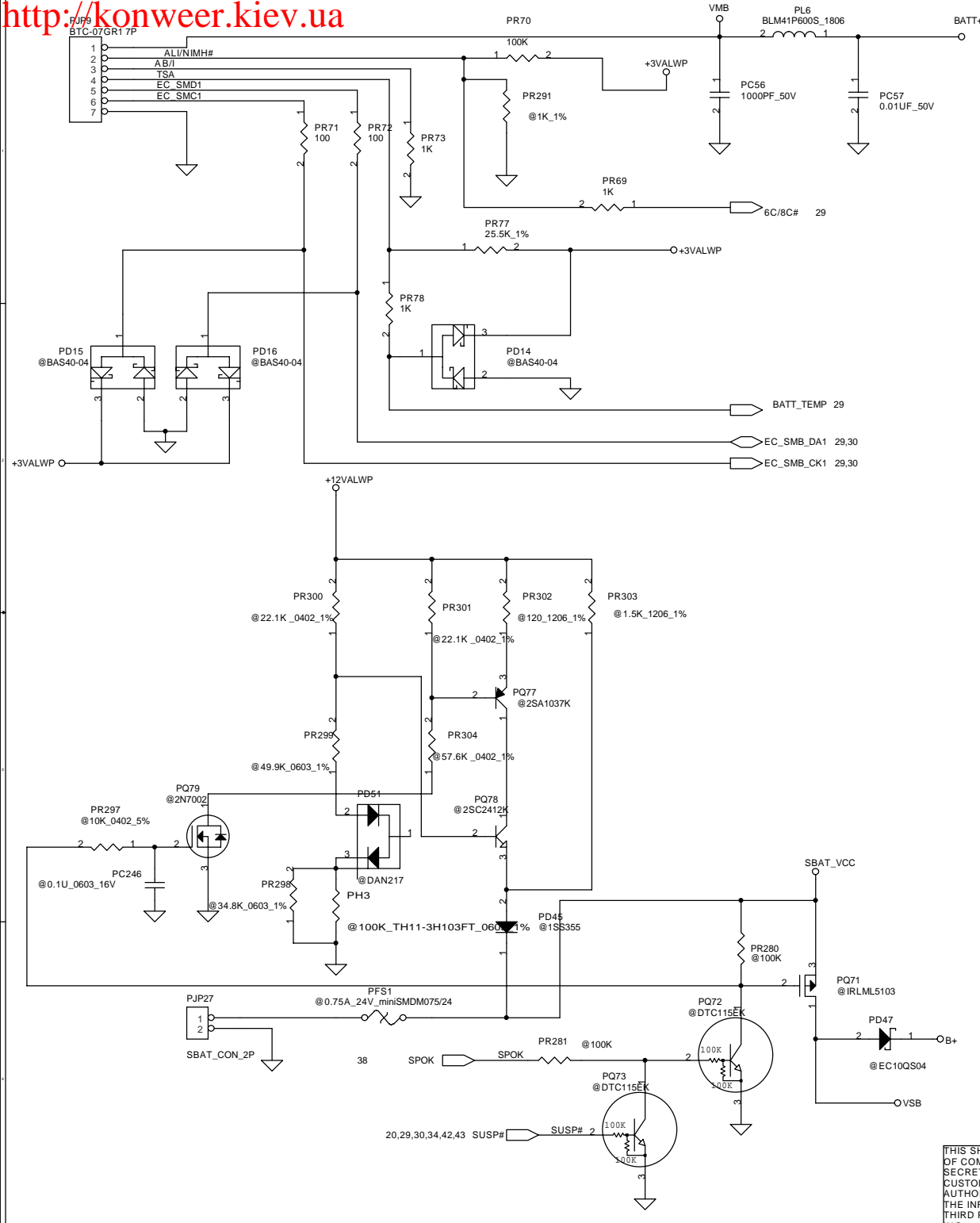


**+3.3V Ipeak = 6.66A ~ 10A**

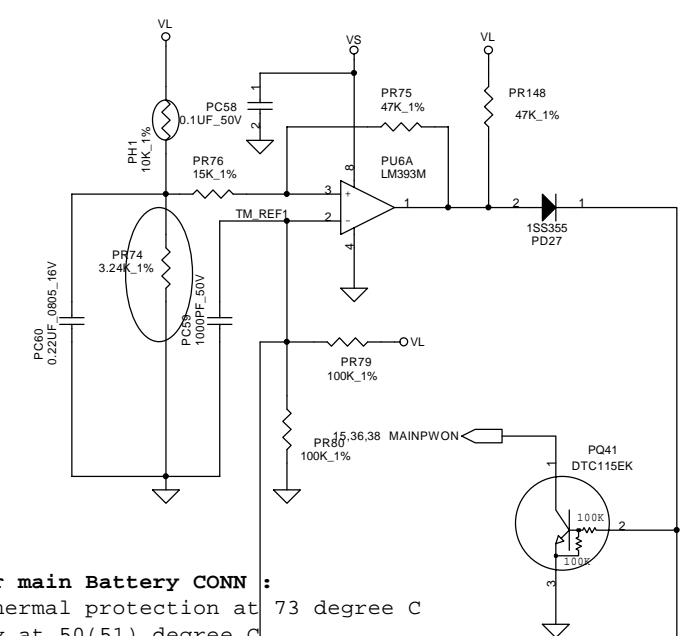
**+5V Ipeak = 6.66A ~ 10A**

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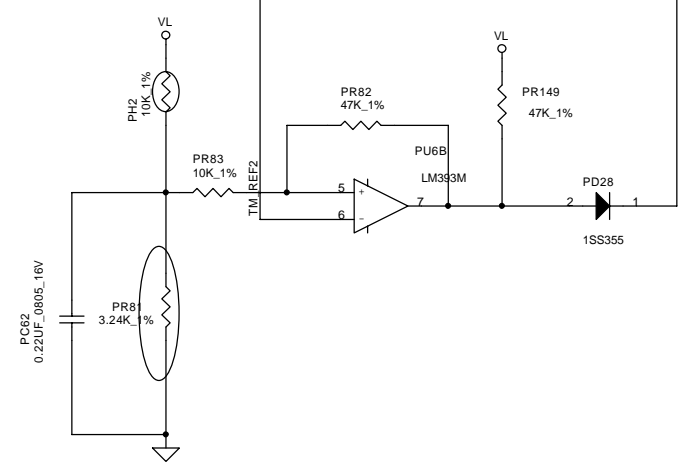
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Size <b>B</b>	Document Number <b>401259</b>	Rev <b>B</b>
Date: 三月二十九, 2004	Sheet 38	of 45



**PH1 under CPU bottom side :**  
 CPU thermal protection at 82 degree C  
 Recovery at 48 degree C



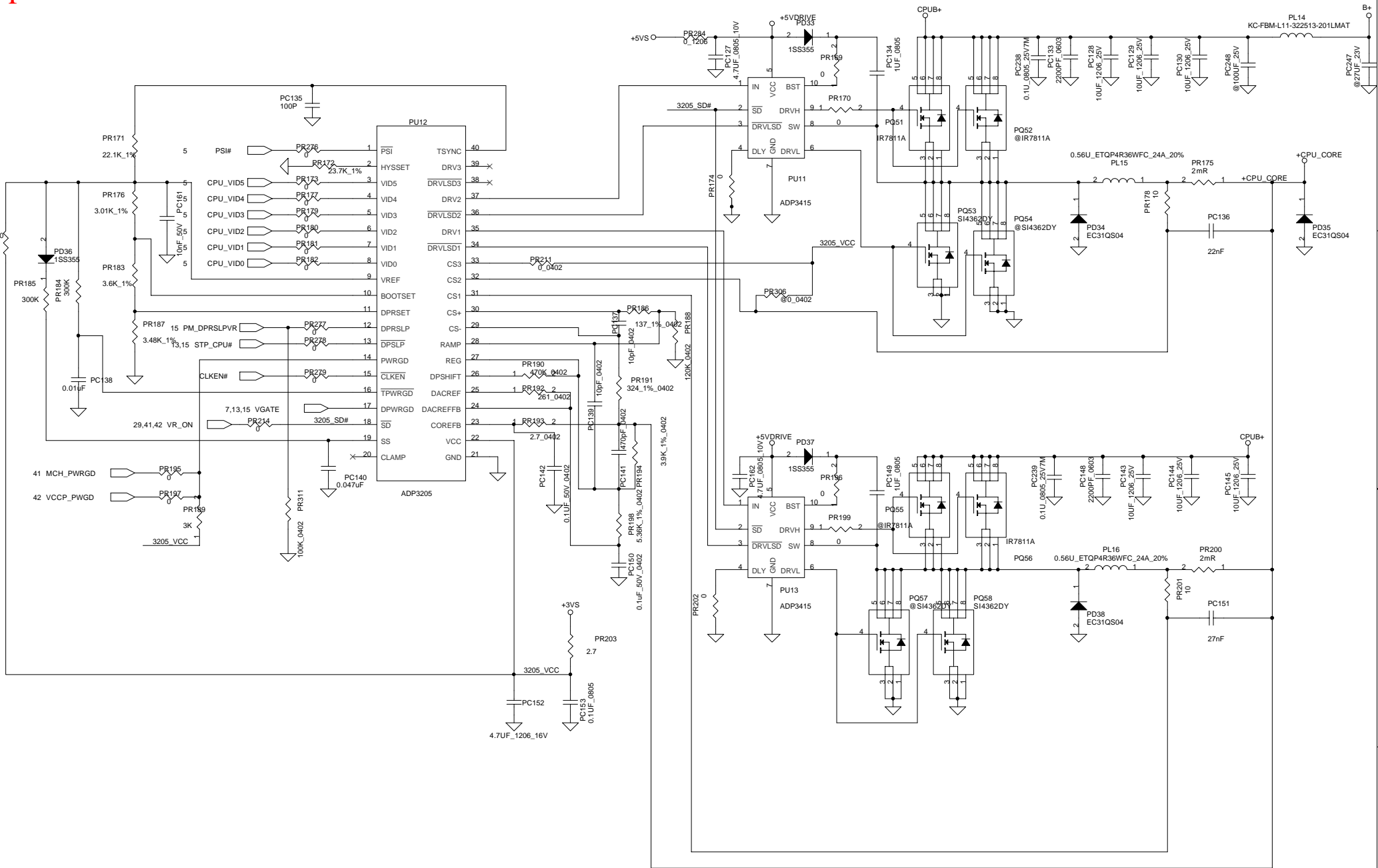
**PH2 near main Battery CONN :**  
 BAT. thermal protection at 73 degree C  
 Recovery at 50(51) degree C



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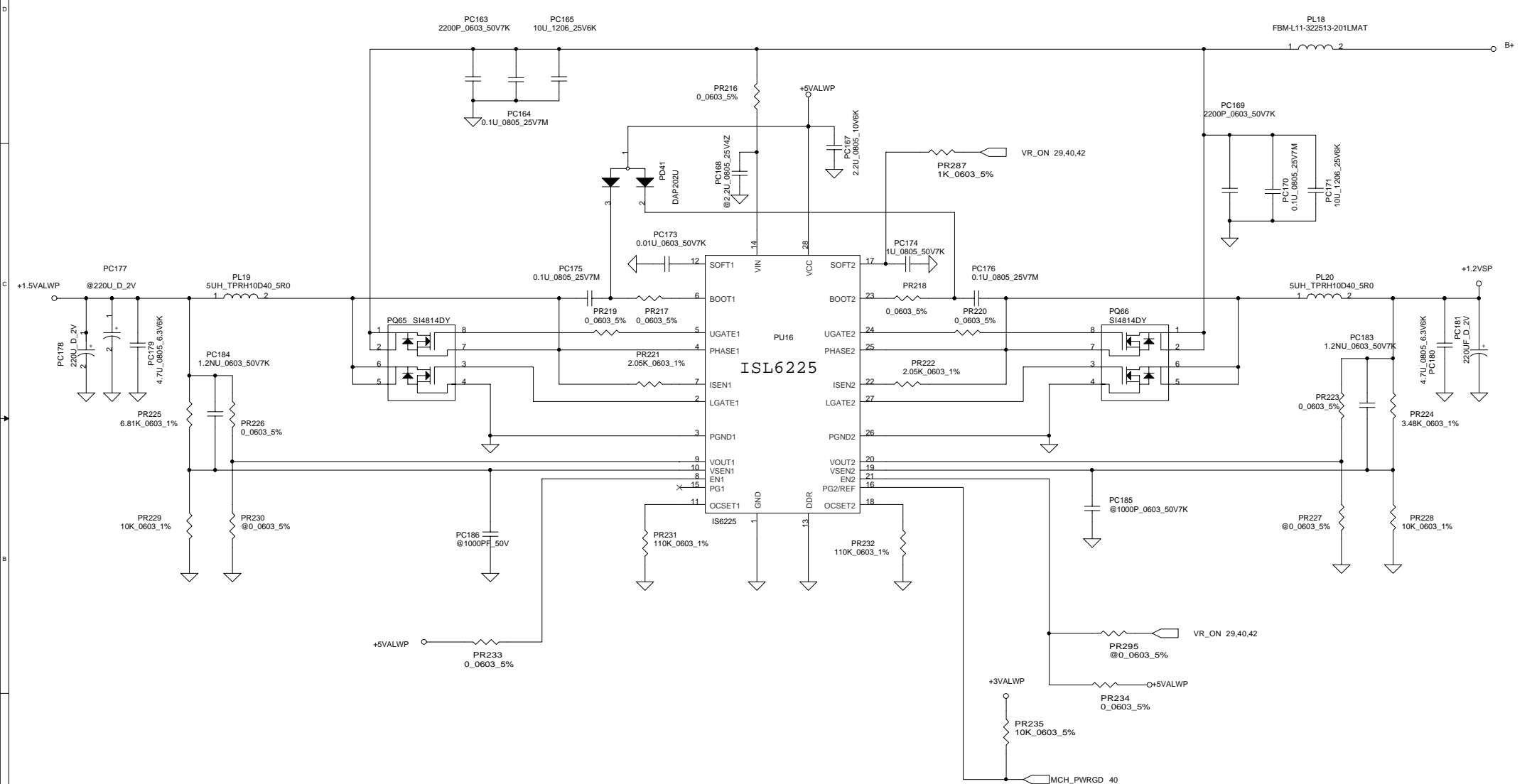
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Size <b>B</b>	Document Number <b>401259</b>	Rev <b>B</b>
Date: 三月二十九, 2004	Sheet 39	of 45

CPU-CORE



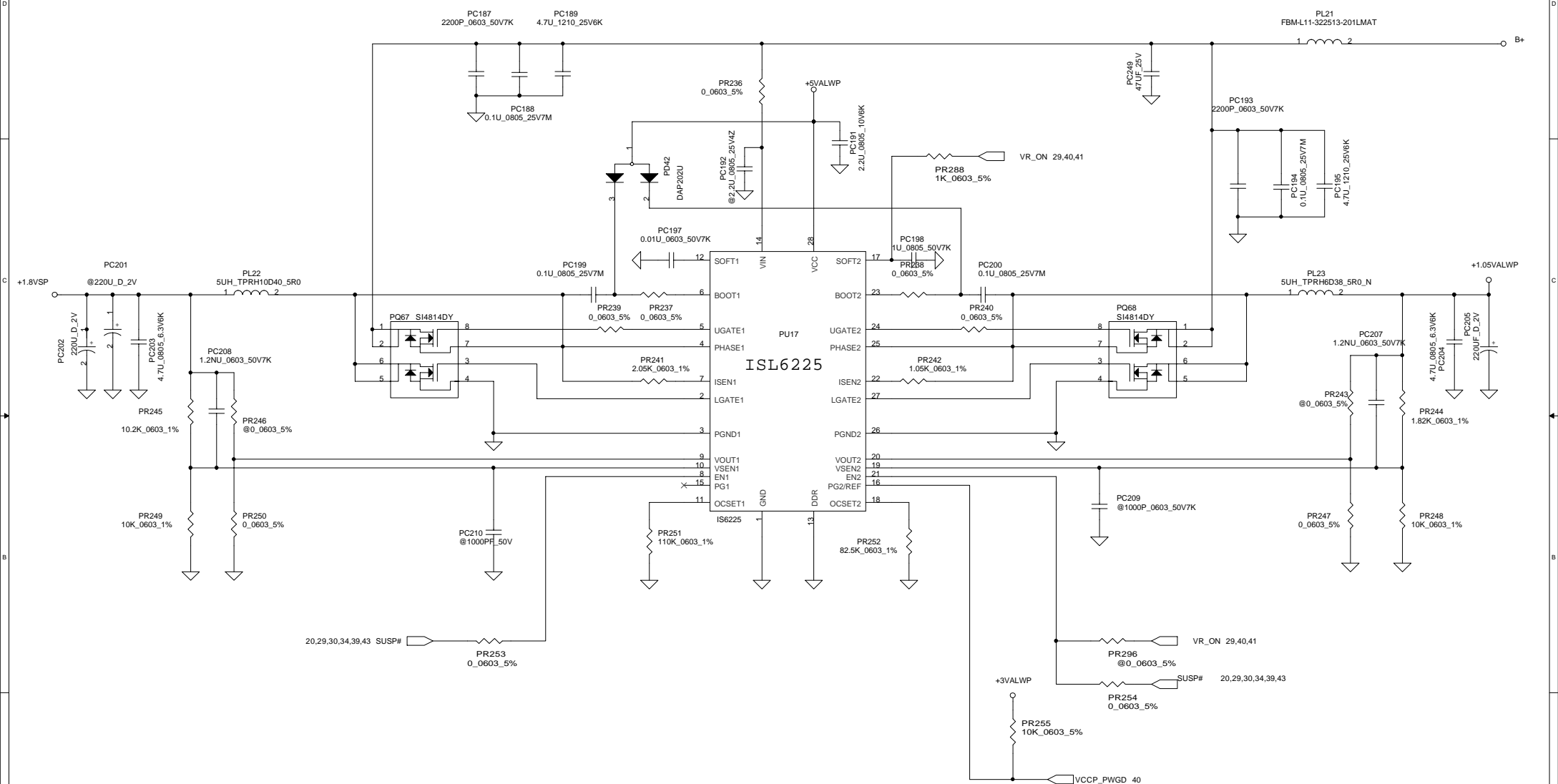
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Size B	Document Number <b>401259</b>	Rev <b>B</b>
Date: 星期三, 十二月 29, 2004	Sheet	40 of 45



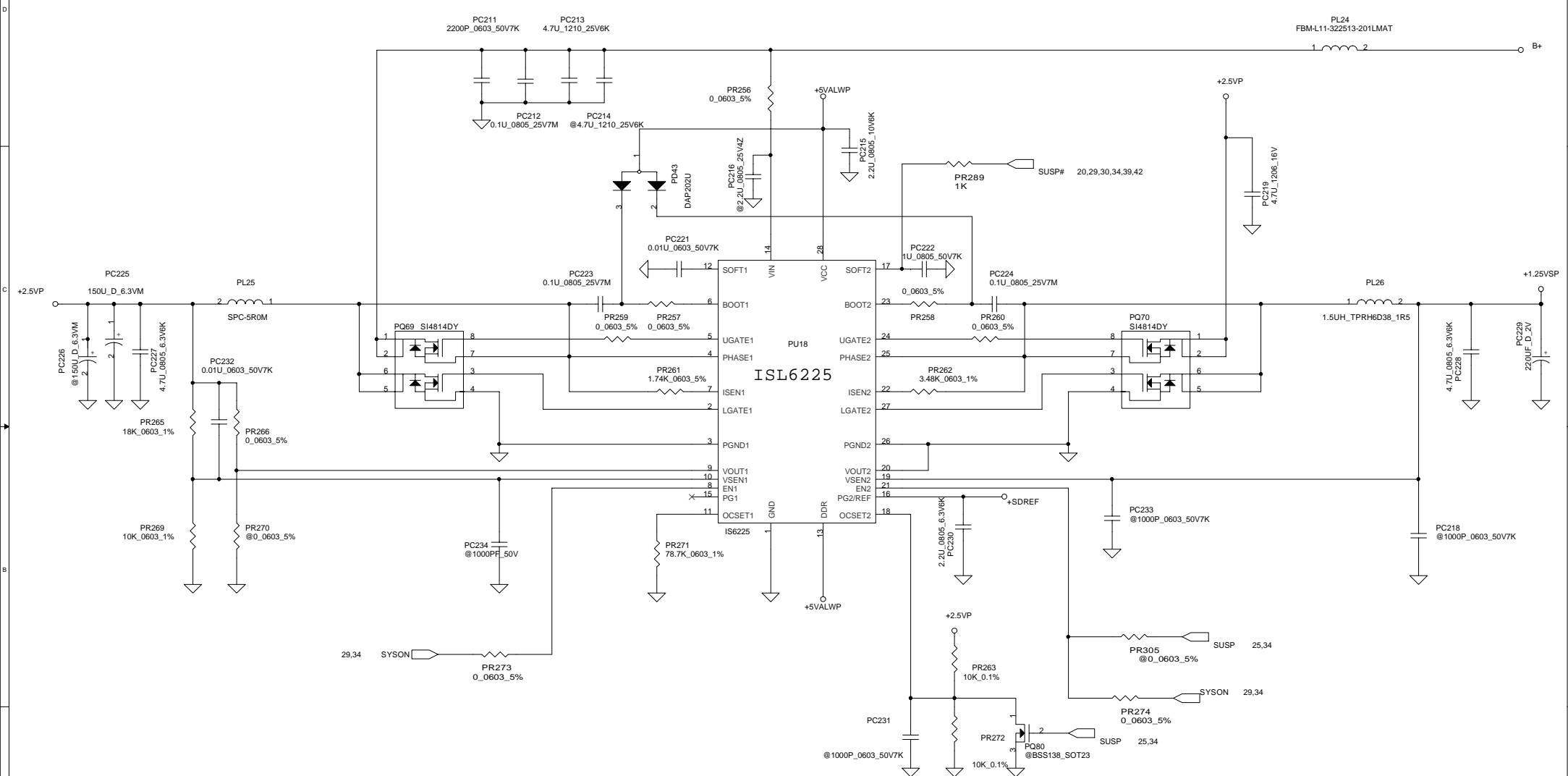
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<b>SCHEMATIC M/B LA-1881</b>		
Size	Document Number	Rev
B	<b>401259</b>	B
Date:	星期三, 十二月 29, 2004	Sheet 41 of 45



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<b>SCHEMATIC M/B LA-1881</b>		
Size	Document Number	Rev
B	<b>401259</b>	B
Date:	星期三, 十二月 29, 2004	Sheet 42 of 45



<b>Compal Electronics, Inc.</b>		
Title		
<b>SCHEMATIC M/B LA-1881</b>		
Size	Document Number	Rev
B	<b>401259</b>	B
Date:	星期三, 十二月 29, 2004	Sheet 43 of 45

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

Item	Fixed Issue	Reason for change	Rev.	PG#	Modify List	VER	Phase
1.	+5VMOD leaked when AC-IN	Change EXTIDEPWR# to +5VALW	0.2	P17	Delete EXTIDEPWR# Add +5VALW to R126		DVT
2.	For ESD	For ESD	0.2	P28	Add D26, D27 on TP_DATA, TP_CLK		DVT
3.	For EMI	For EMI	0.2	P31	Add C574 on FAN1_TACH		DVT
4.	Reserve For ENE KB3910	Reserve For ENE KB3910	0.2	P29	Add R441, R442, R443, R444, R445		DVT
5.	Reserve For CB1410 Rev.B0	Reserve For CB1410 Rev.B0	0.2	P20,21	Add C575, C576, R447, R448, R449		DVT
6.	Reserve FAN Control Circuit	Reserve FAN Control Circuit	0.2	P31	Add U44, R450, R451, R452, R453, C577		DVT
7.	Bluetooth LED	Add Bluetooth LED	0.3	P31	Add Q50, R454		PVT
8.	Change LED Wire Connector	Change LED Wire Connector	0.3	P26	Change JP24 Connector Type		PVT
9.	Reserve SCROLL LED Circuit	Add LED Control Circuit	0.3	P26	Add Q51, Q52, R455, R456		PVT
10.	For ESD	For ESD	0.3	P33	Add D28, D29, D30, D31 close to Speaker Connector		PVT

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Title		
SCHEMATIC M/B LA-1881		
Size	Document Number	Rev
	401259	B
Date:	~P期三, 十二月 29, 2004	
	Sheet	44 of 45

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

Item	Fixed Issue	Reason for change	Rev.	PG#	Modify List	VER	Phase
1		delete 6 cell charger voltage		37	1.delete PQ75,PQ74,PR294,PC245		DVT
2		Adjust charger charge voltage:		37	1. change PU3 from MB3878 to MB3887, PR38 from 118K to 174k,PR33 from 26.1k to 34k, PR44 from 120k_1% to 9.3k_0.1%,PR45 from 243k_1% to 143k_1%, PR290 from 243k_1% to 143k_0.1%		
3		modify 1.5UH CHOKE footprint to be the same as all vender		42	Change PL26 fom old version:1.5UH TPRH6D38 to new version 1.5UH_TPRH6D38-N.		DVT
4		add pull low resistor PR311 to ground for hardware		39	add PR311		DVT
5		for cpu core current balance		40	change pc151 from 22n to 27n		PVT
6		for vender require , new DC JACKbe crease		36	increase PJP11		
7		for 1.2vs soft start rise time		41,42,43	change pc174,pc198,pc222, from 4.7u to 1u		
8		cost down		38,39,40,41	delete PC36,PC39,PC247,PC249 CHANGE PC195,PC189 FROM 10U 1206 TO 4.7U 1210		
9		TP0610C will be phase out		36	change TP0610C to TP0610K		

<b>Compal Electronics, Inc.</b>		
Title		
SCHEMATIC M/B LA-1881		
Size	Document Number	Rev
	401259	B
Date:	星期三, 十二月 29, 2004	Sheet 45 of 45