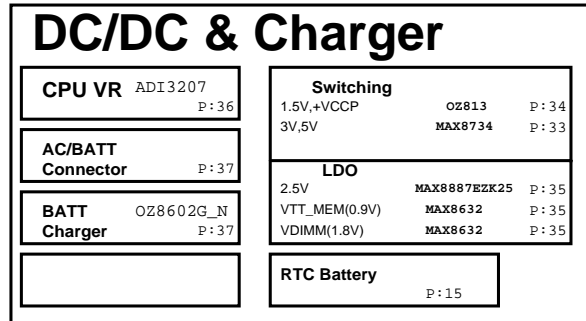



Yonah/Calistoga





		LENOVO.NOD HUZW LIXINP LIYJK LxXDA	
Title Power Sequence Block			
Size C	Document Number Taurus2		Rev a0.1
Date: Thursday, June 29, 2006		Sheet 2 of 40	
PROPERTY NOTE: this document contains information confidential and property to LENOVO PND and shall not be reproduced or transferred to other documents or disclosed to others or used for any purpose other than that for which it was obtained without the expressed written consent of LENOVO PND.			

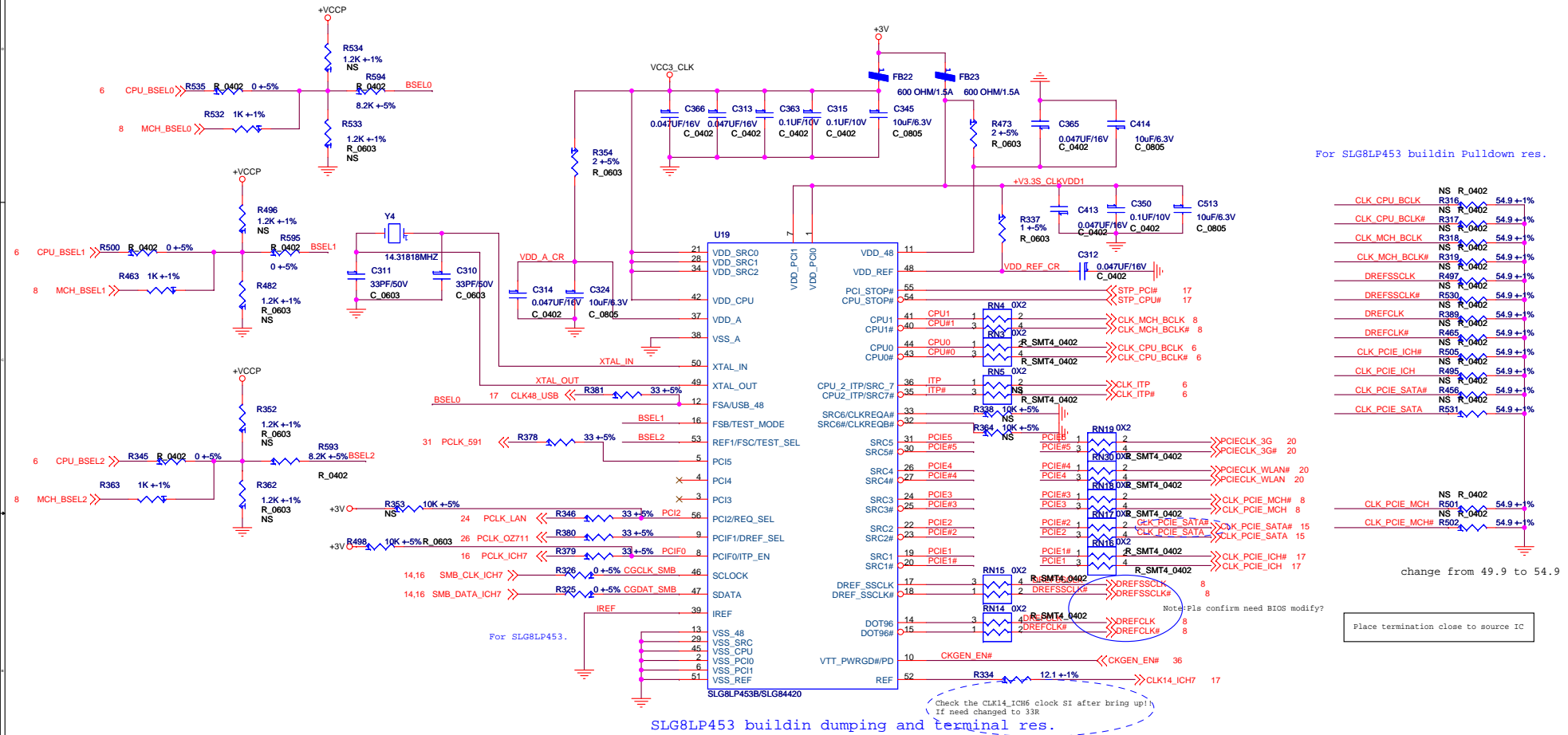
INDEX

Pg#	Description	DNI LIST
1	Block Diagram	
2	Power Sequence Block	
3	Frontpage	
4	Clock Generator	
6,7	Yonah CPU	
8-13	Calistoga	
14	DDR SO-DIMM	
15-18	ICH7-M	
19	USB & SATA	
20	MINI PCIE, WWAN & MDC	
21	CRT	
22	LCD CONN	
23	SWITCH & LED	
24	BCM4401/5702 LAN	
25	RJ11&RJ45	
26	Cardbus OZ711	
27	CARDREADER & 1394	
28	AUDIO	
29	AUDIO JACK	
30	KB & TP & BT	
31	IT8511E & FLASH	
32	DISCHARGE	
33	SYSTEM POWER	
34	VCCP & GMCH CORE	
35	DDR CORE	
36	CPU CORE	
37	BATTERY CHARGER	
38	EMI PADS& Screws	
39	APS	
40	CHANGE LIST	

Power & Ground

ADIN

Label	Pg#	Description	Control Signal
 ADIN	37	AC ADAPTER (19V)	
		MAIN BATTERY + (10~17V)	
 VIN	22,33,34,35,36,37	MAIN POWER (10~20V)	
 VCCRTC	15,18,31	RTC & PCL POWER (3.3V)	
 +3VALW	15,17,22,23,30,31,33,37,39	EC 3V always power	
 +5VALW	32,33	5V always power	
 3VAUX	20,24,25,33,34	LAN power	3VAUXEN
		ICH7-M 1.5V SUS power	SUSON
 VDIMM	8,10,14,32,35	DDR2 RAM 1.8V power	SUSON
 +3VSUS	16,17,18,23,31,32,33,35	3V	SUSON
 +5VSUS	18,19,32,33	5V	SUSON
 +1.5V	10,11,12,17,18,20,32,34	AGP I/O power	MAINON
 +3V	4,6,8,11,12,14,15,16,17,18,19,20,21,22,23,24,26,27,28,30,31,32,33,36	+3V	MAINON
 +5V	6,18,19,21,26,28,30,31,32,33,36	+5V	MAINON
 +5VA	28	AUDIO analog 5V power	MAINON
 +5V_FAN	6	FAN 5V power	VFAN
			RBAYON#
 MOSVCC	22,26,27,30,32,33	High Voltage to control MOS	MAINON
 VCORE_CPU	7,32,36	CPU power	VRON
 +VCCP	4,6,7,8,10,11,15,18,32,34	CPUIO powers(1.05V)	MAINON
 REF3V	37	EC analog 3V power	REFON
 GND	ALL PAGES	DIGITAL GROUND	
 AUDGND	28,29	AUDIO GND	



For SLG8LP453 buildin Pulldown res.

CLK_CPU_BCLK	NS R_0402	54.9 +1%
CLK_CPU_BCLK#	NS R_0402	54.9 +1%
CLK_MCH_BCLK	NS R_0402	54.9 +1%
CLK_MCH_BCLK#	NS R_0402	54.9 +1%
DREFSSCLK	NS R_0402	54.9 +1%
DREFSSCLK#	NS R_0402	54.9 +1%
DREFCLK	NS R_0402	54.9 +1%
DREFCLK#	NS R_0402	54.9 +1%
CLK_PCIE_ICH#	NS R_0402	54.9 +1%
CLK_PCIE_ICH	NS R_0402	54.9 +1%
CLK_PCIE_SATA#	NS R_0402	54.9 +1%
CLK_PCIE_SATA	NS R_0402	54.9 +1%
CLK_PCIE_MCH#	NS R_0402	54.9 +1%
CLK_PCIE_MCH	NS R_0402	54.9 +1%
CLK_PCIE_MCH#	NS R_0402	54.9 +1%

change from 49.9 to 54.9


Place termination close to source IC

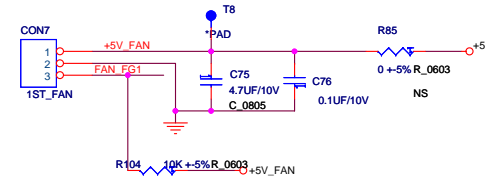
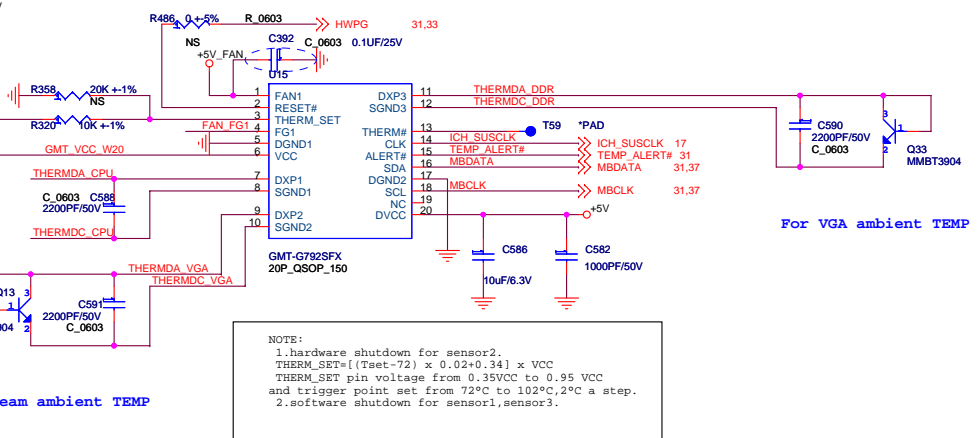
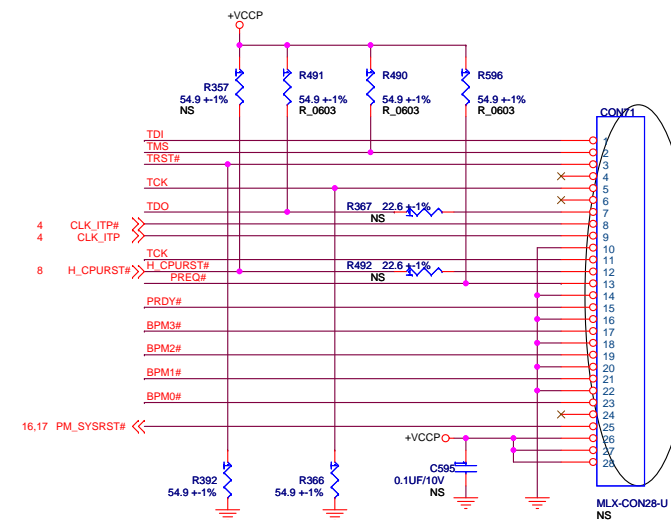
For SLG8LP453 differential clock remove the 33R.


FS_C	FS_B	FS_A	CPU (MHz)
0	0	0	266.6
0	0	1	133.3
0	1	0	200.0
0	1	1	166.6
1	0	0	333.3
1	0	1	100.0
1	1	0	400.0
1	1	1	Reserve

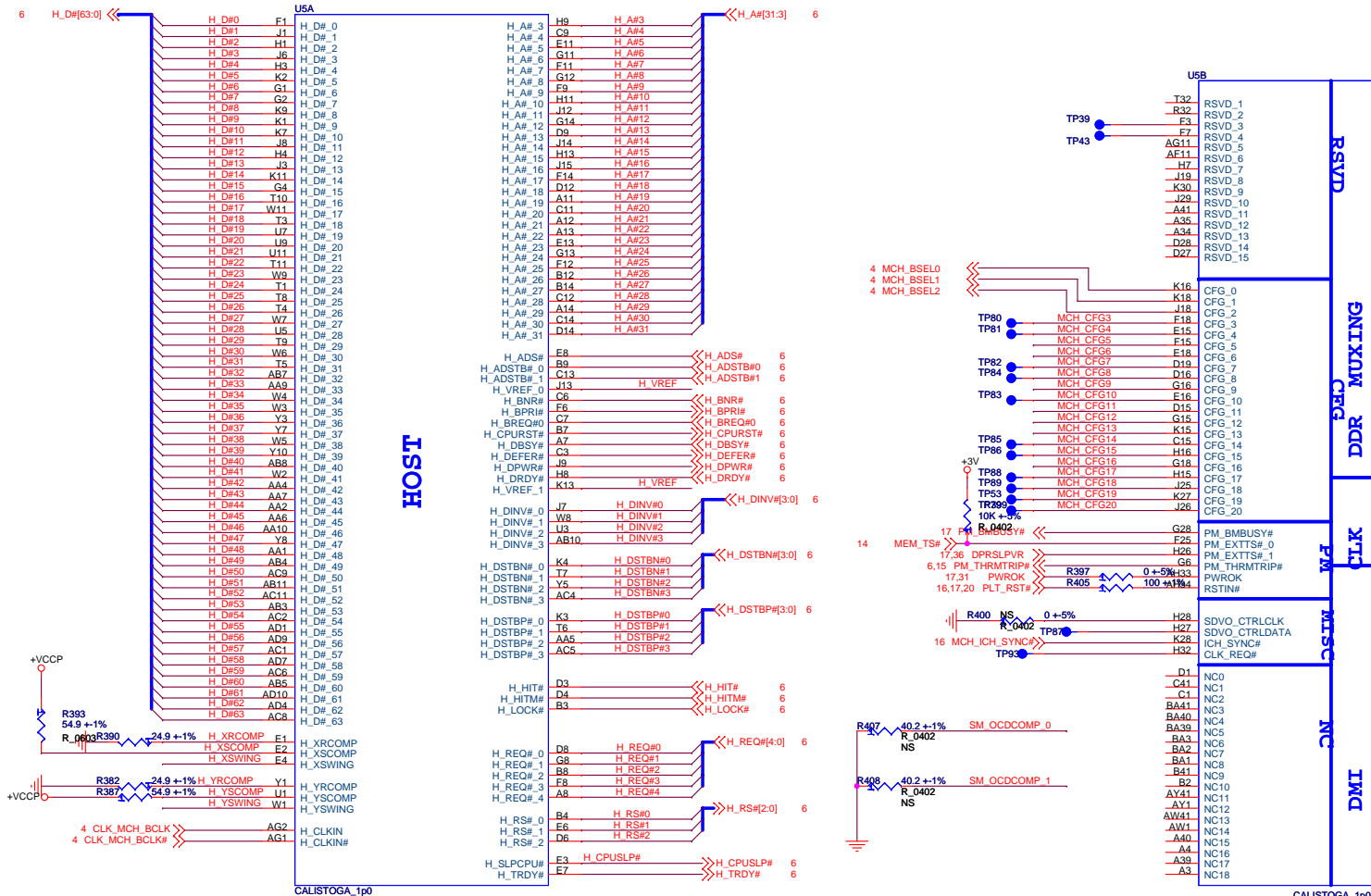
lenovo 联想		LENOVO.NOD HuZW LIXINP LIYJK LvXDA	
Title CLOCK GENERATOR			
Size Custom	Document Number Taurus2		Rev s0.1
Date:	Thursday, June 29, 2006 Sheet 4 of 40		
PROPERTY NOTE: this document contains information confidential and property to LENOVO PND and shall not be reproduced or transferred to other documents or disclosed to others or used for any purpose other than that for which it was obtained without the expressed written consent of LENOVO PND.			

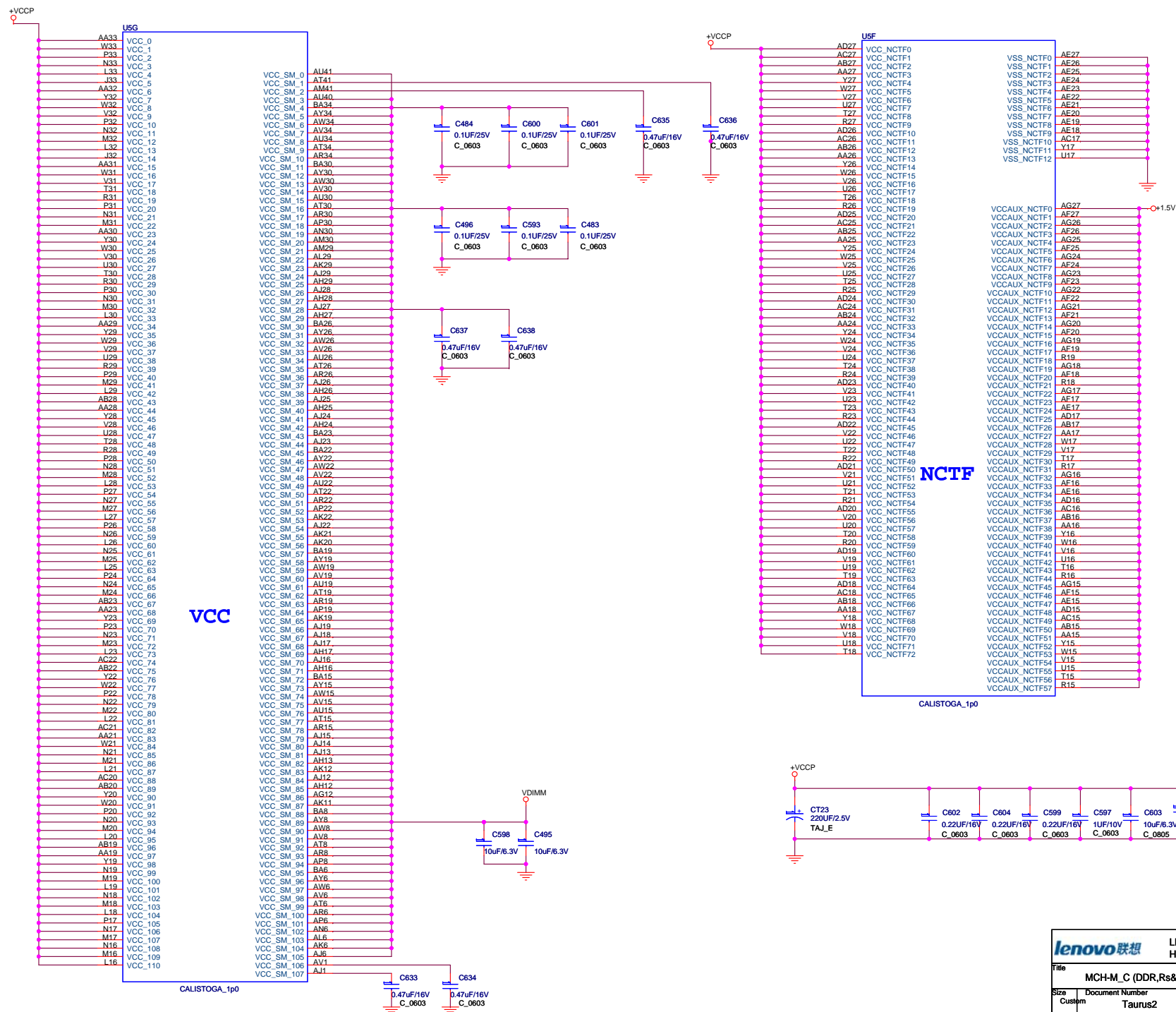
5	4	3	2	1
D				D
C				C
B				B
A				A


		LENOVO.NOD	
Title			
THERMAL MONITOR/ITP			
Size	Document Number		Rev
C	Taurus2		v0.1
Date:	Thursday, June 29, 2006	Sheet	5 of 40
<small>*PROPERTY NOTE: this document contains information confidential and property to LENOVO PND and shall not be reproduced or transferred to other documents or disclosed to others or used for any purpose other than that for which it was obtained without the expressed written consent of LENOVO PND.*</small>			

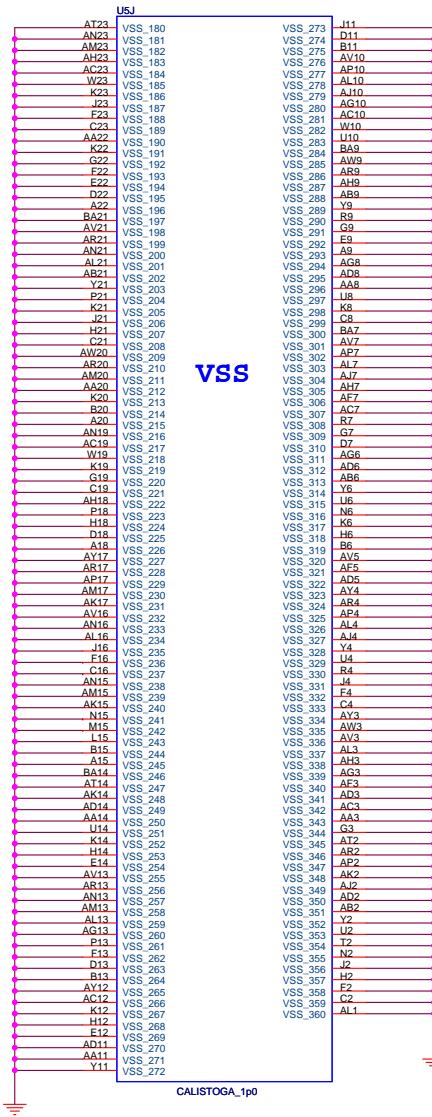
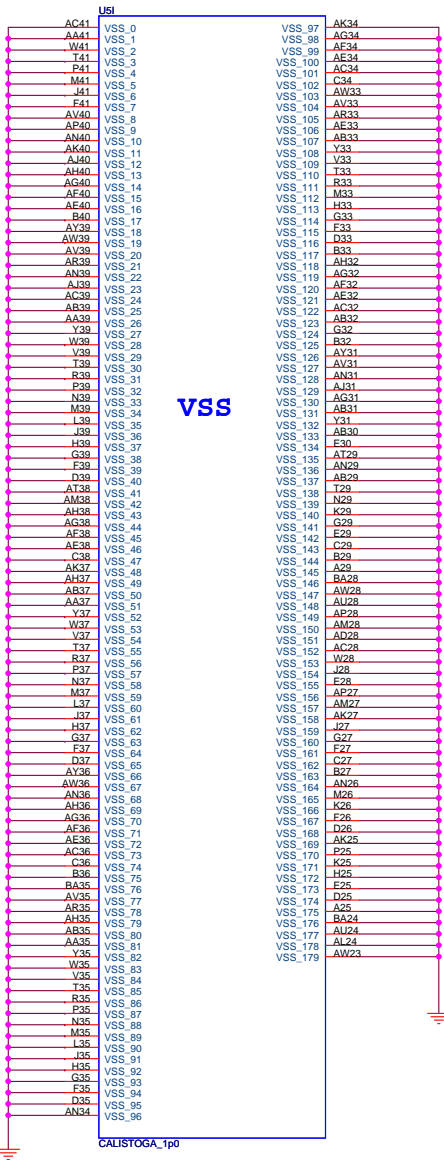


 联想		LENOVO.NOD HuZw LIXINP LIYJK LVxDa	
Title DOTHAN CPU (HOST BUS)-1			
Size Custom	Document Number Taurus2	Rev s0.1	
Date: Thursday, June 29, 2008	Sheet 6	of 40	
PROPERTY NOTE: this document contains information confidential and property to LENOVO PND and shall not be reproduced or transferred to other documents or disclosed to others or used for any purpose other than that for which it was obtained without the expressed written consent of LENOVO PND.*			

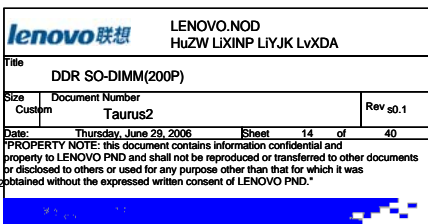
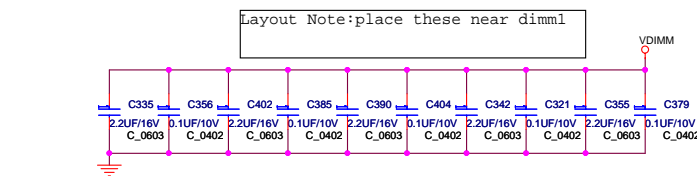
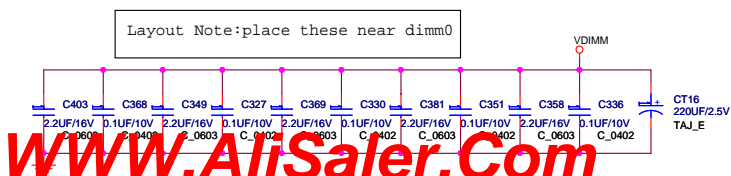




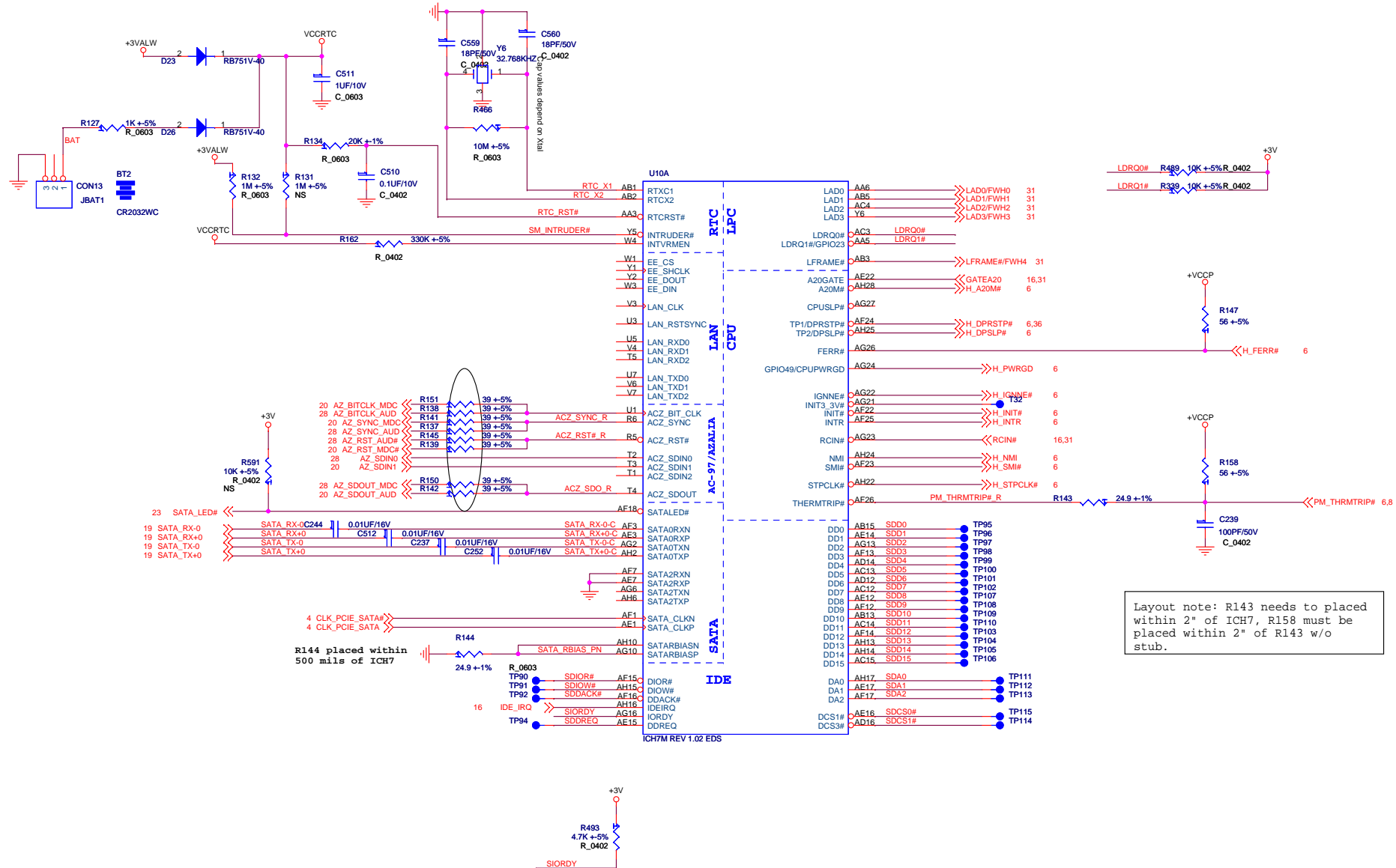
		LENOVO.NOD HuZW LIXINP LIYJK LvXDA	
Title MCH-M_C (DDR, Rs&Rt)			
Size Custom	Document Number Taurus2		Rev s0.1
Date: Thursday, June 29, 2006	Sheet 10	of 40	
PROPERTY NOTE: this document contains information confidential and property to LENOVO PND and shall not be reproduced or transferred to other documents or disclosed to others or used for any purpose other than that for which it was obtained without the expressed written consent of LENOVO PND.			



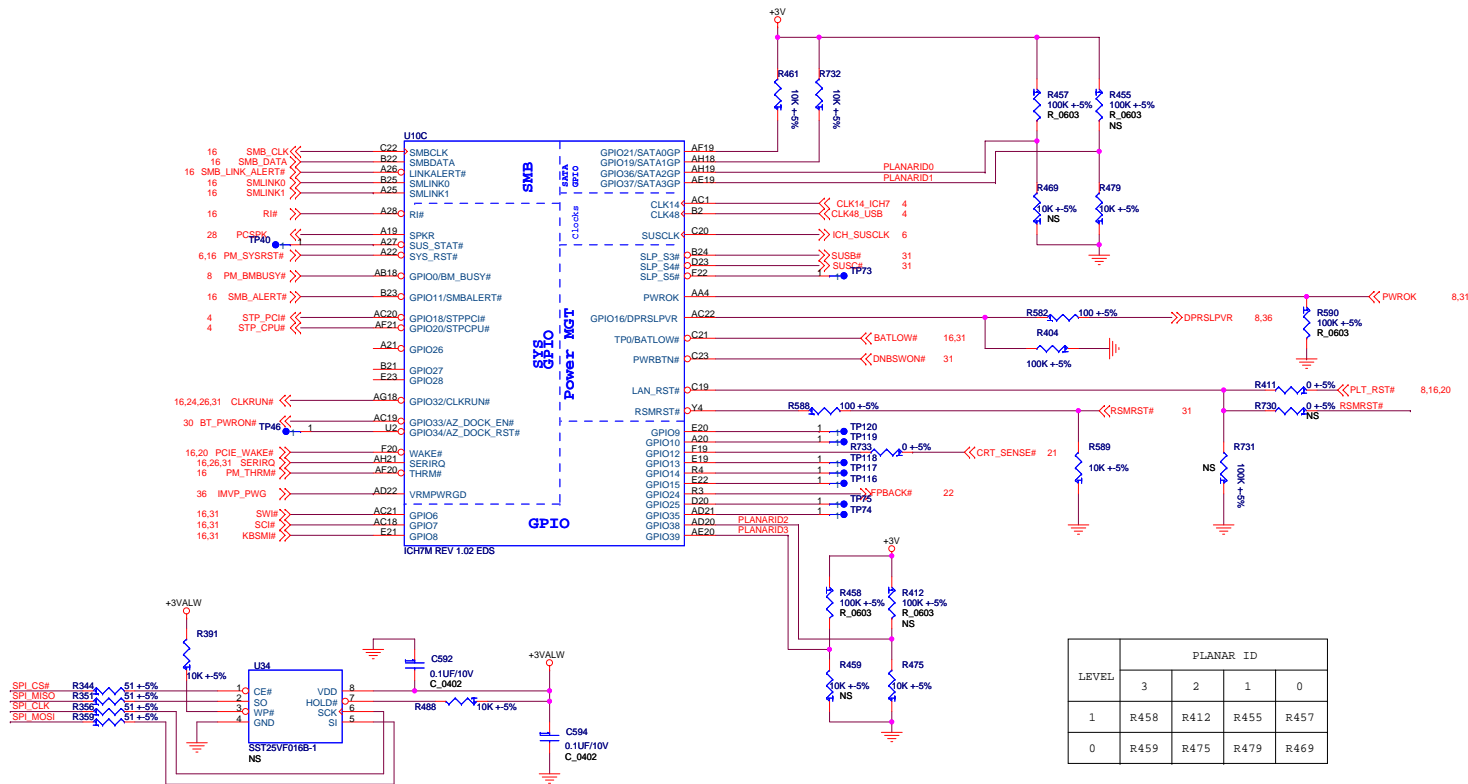
lenovo 联想		LENOVO.NOD	
Title			
Calistoga(VSS)			
Size	Document Number	Rev V0.1	
Custom	Taurus2		
Date:	Thursday, June 29, 2006	Sheet	13 of 40
PROPERTY NOTE: this document contains information confidential and property to LENOVO PND and shall not be reproduced or transferred to other documents or disclosed to others or used for any purpose other than that for which it was obtained without the expressed written consent of LENOVO PND.			



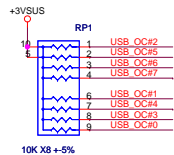
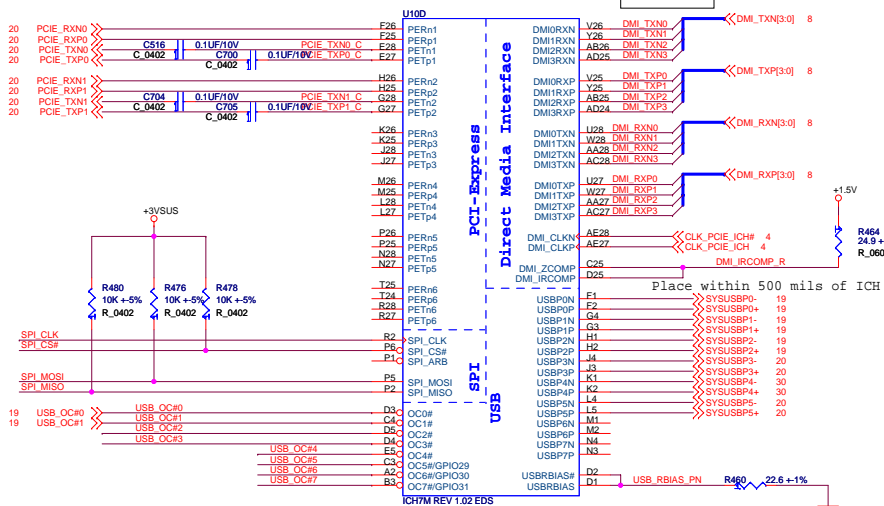
Consider VCCRTC sources



lenovo 联想		LENOVO.NOD	
Title ICH7-M(CPU/IDE/SATA)			
Size	Document Number	Rev v0.1	
Custom	Taurus2		
Date:	Thursday, June 28, 2006	Sheet	15 of 40
PROPERTY NOTE: this document contains information confidential and property to LENOVO PND and shall not be reproduced or transferred to other documents or disclosed to others or used for any purpose other than that for which it was obtained without the expressed written consent of LENOVO PND.			



PLACE LESS THAN 2 INCH FROM THE ICH IF USING SHARED ARCHITECTURE.

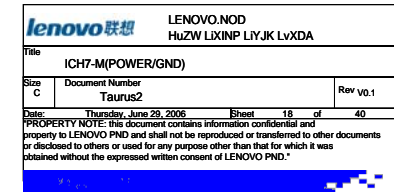


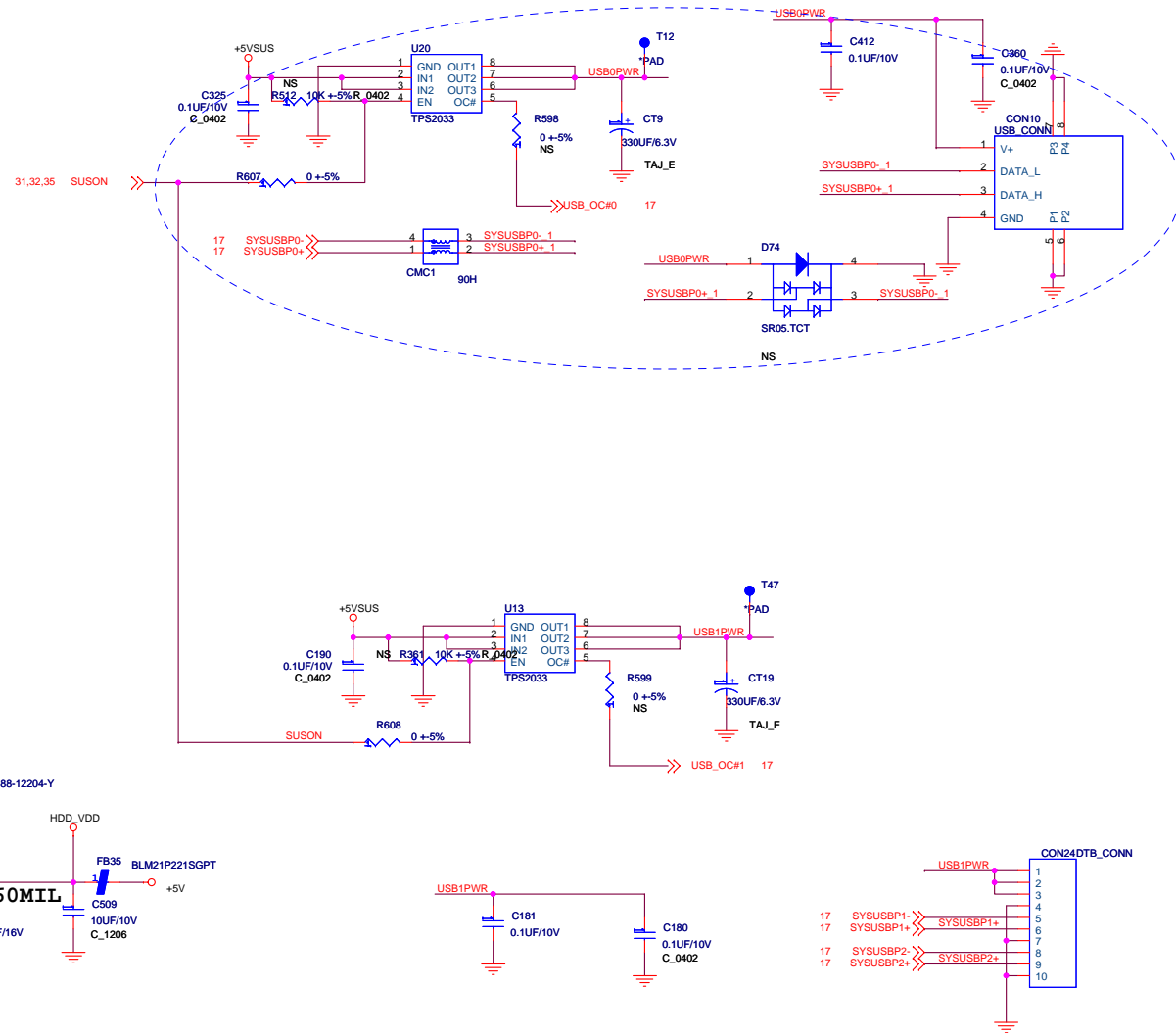
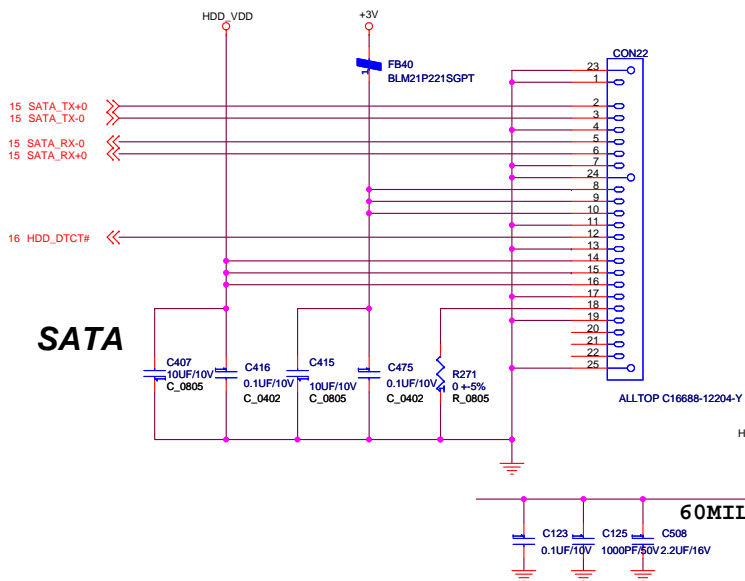
lenovo 联想 LENOVO.NOD

ICH7-M(GPIO/PM/USB/SPI)

Size Document Number
Custom Taurus2 Rev v0.1

Date: Thursday, June 29, 2006 Sheet 17 of 40
PROPERTY NOTE: This document contains information confidential and property to LENOVO PND and shall not be reproduced or transferred to other documents or disclosed to others or used for any purpose other than that for which it was obtained without the expressed written consent of LENOVO PND.

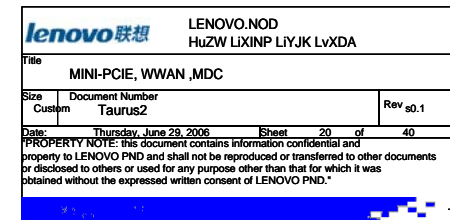


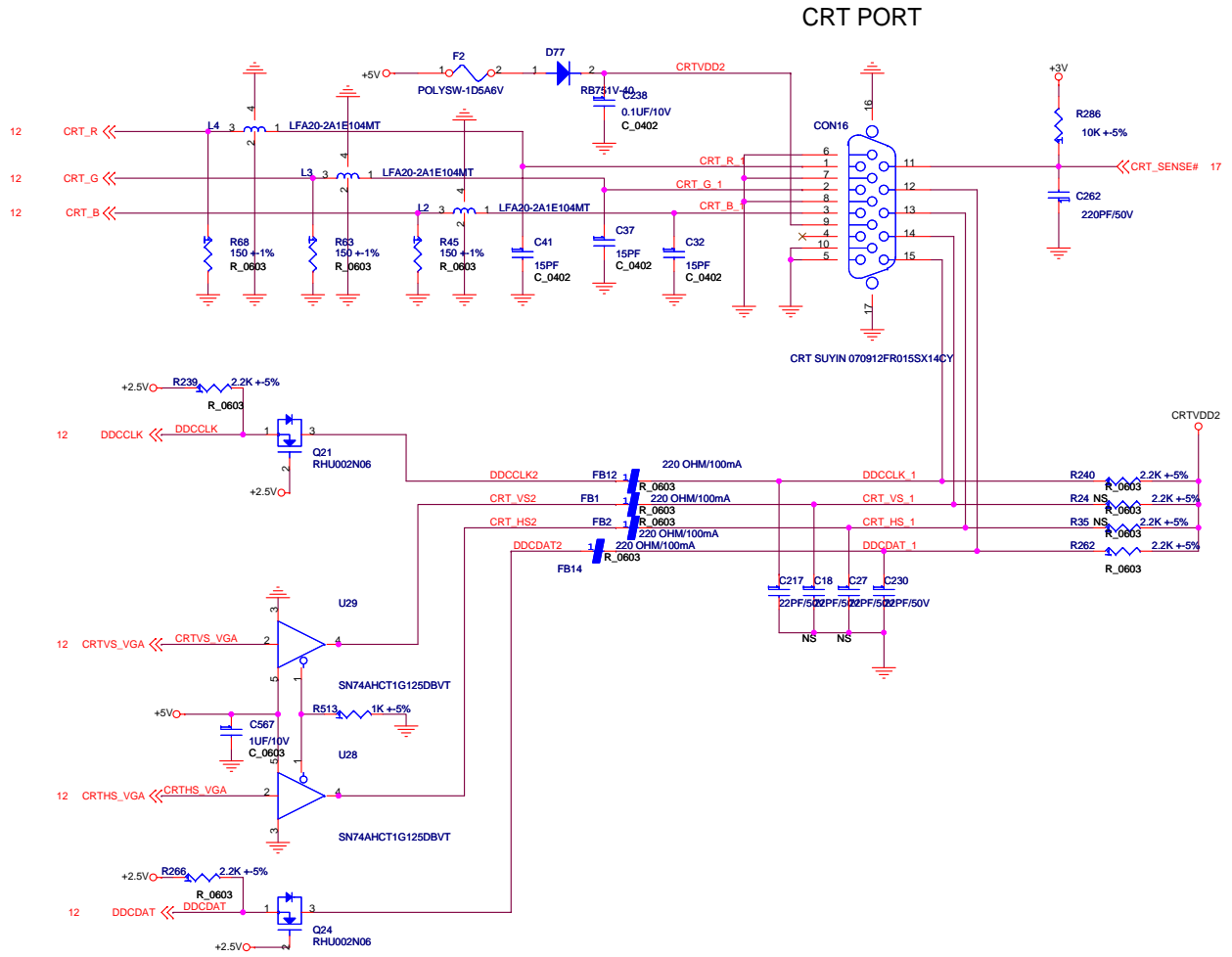
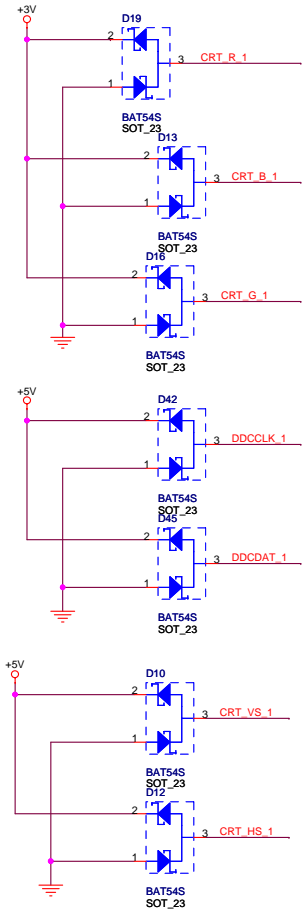


For external ODD,the USB Power need larger than 1A

lenovo 联想		LENOVO.NOD HuZW LIXINP LIYJK LvXDA	
Title USB HDD			
Size Custom	Document Number Taurus2		Rev s0.1
Date: Thursday, June 29, 2006	Sheet 19	of 40	
PROPERTY NOTE: this document contains information confidential and property to LENOVO PND and shall not be reproduced or transferred to other documents or disclosed to others or used for any purpose other than that for which it was obtained without the expressed written consent of LENOVO PND.			

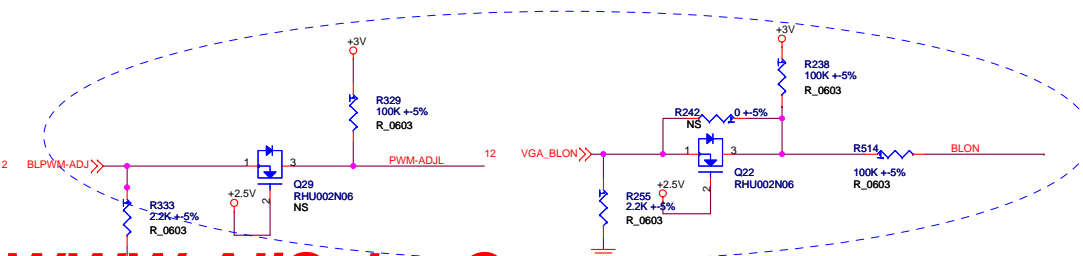
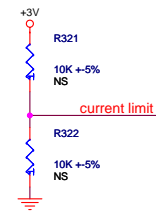
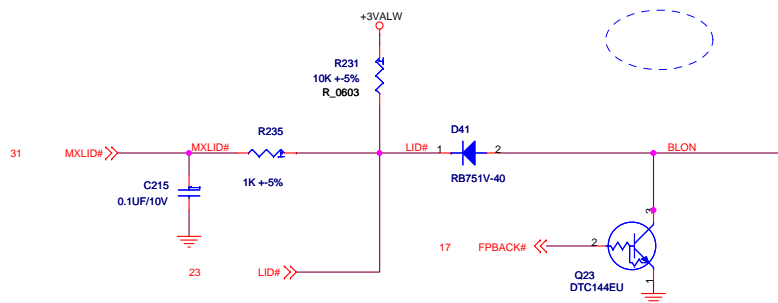
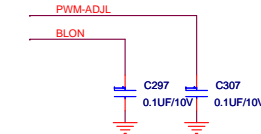
MINI PCIE CON FOR 3G

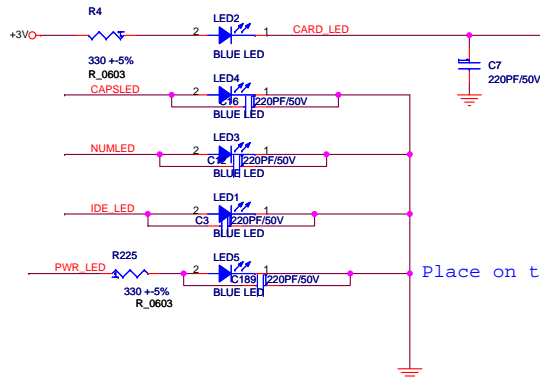
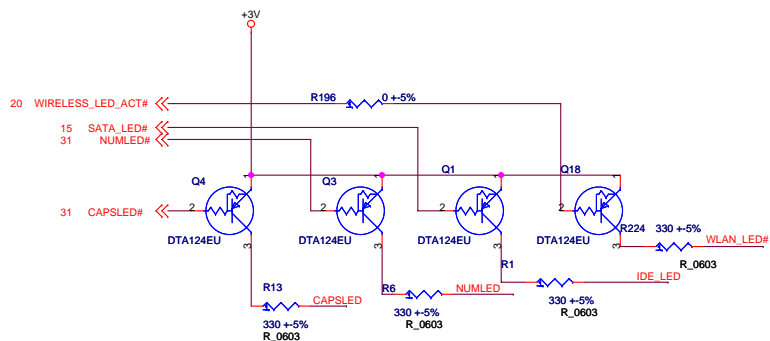
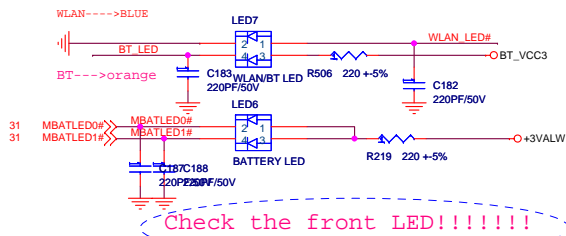
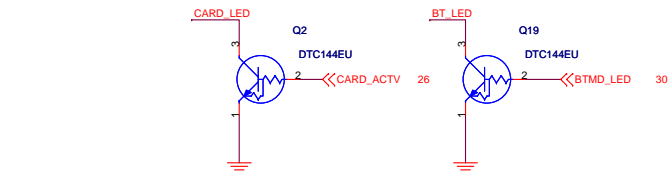




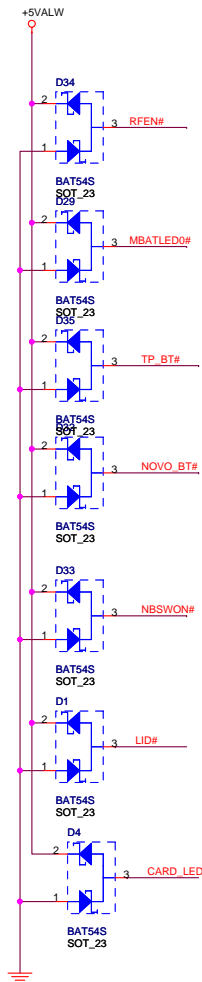
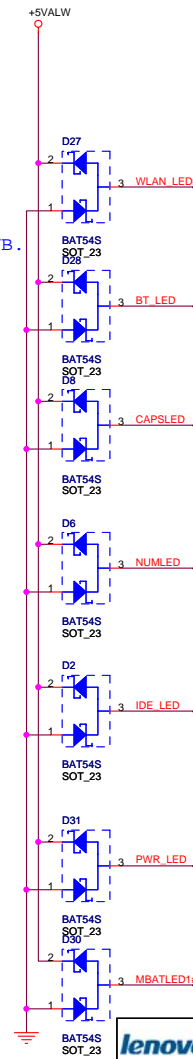
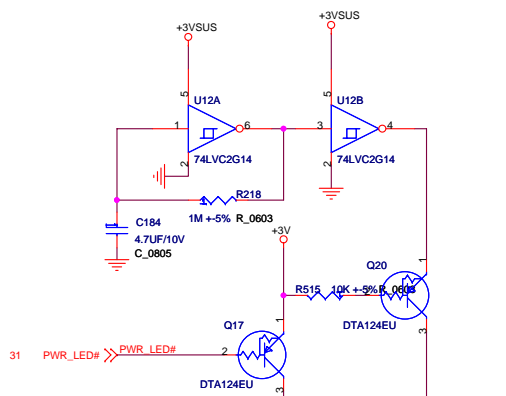
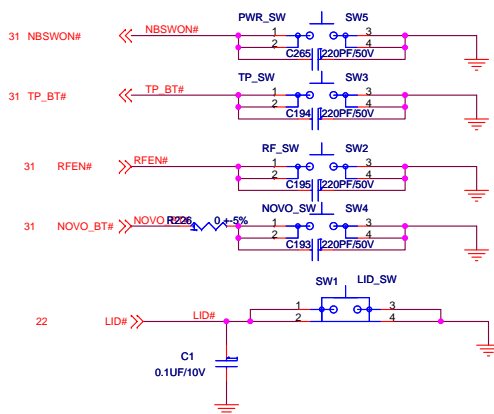
lenovo联想		LENOVO.NOD HuZW LIXINP LiYJK LvXDA	
Title CRT			
Size Custom	Document Number Taurus2		Rev s0.1
Date: Thursday, June 28, 2006	Sheet 21	of 40	
PROPERTY NOTE: this document contains information confidential and property to LENOVO PND and shall not be reproduced or transferred to other documents or disclosed to others or used for any purpose other than that for which it was obtained without the expressed written consent of LENOVO PND.			

Check new spec and PIN1,31



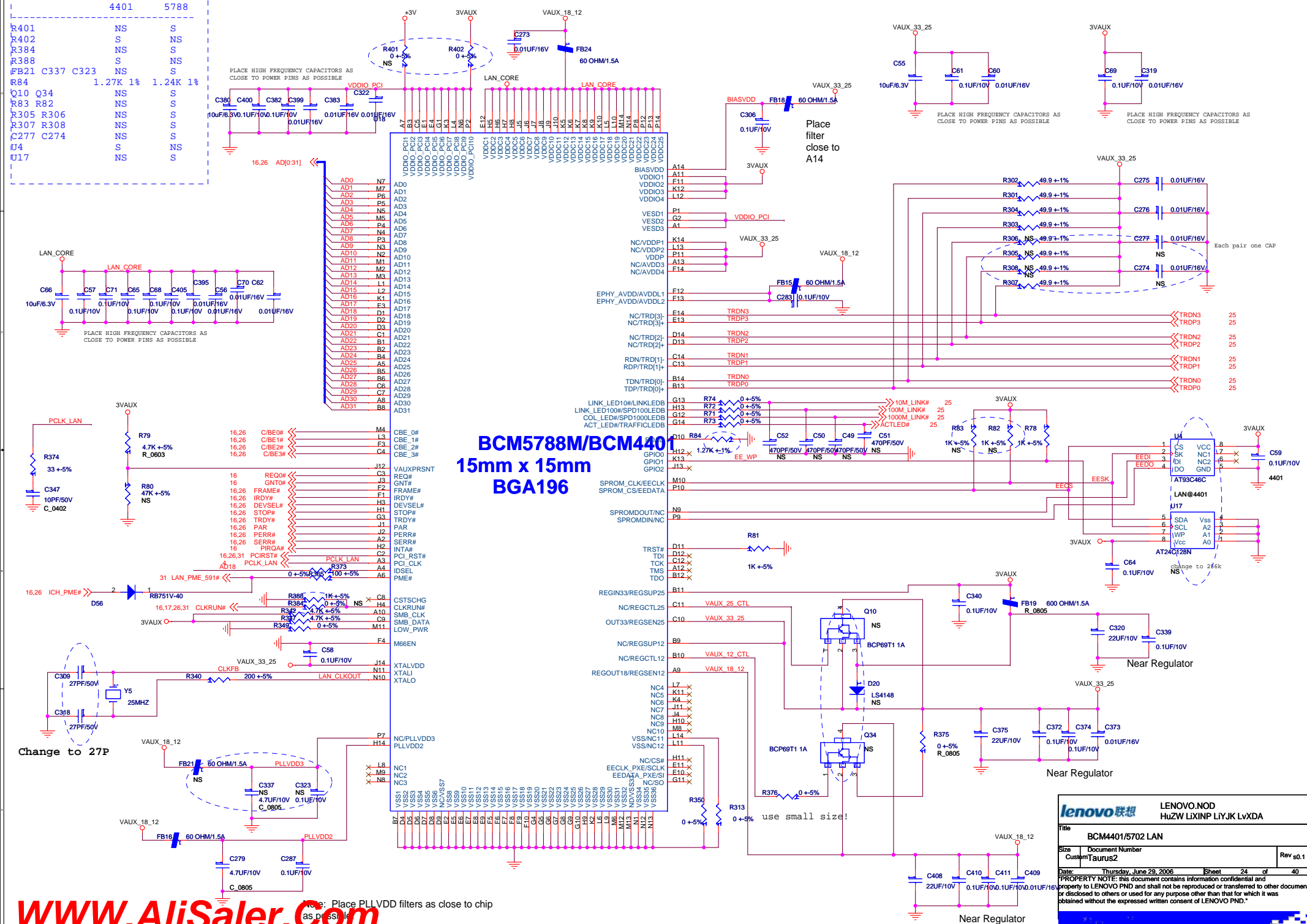


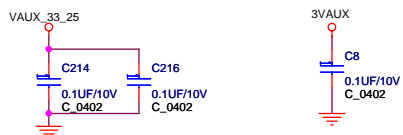
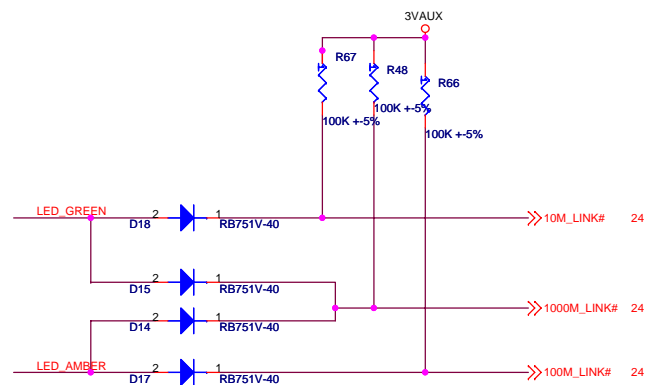
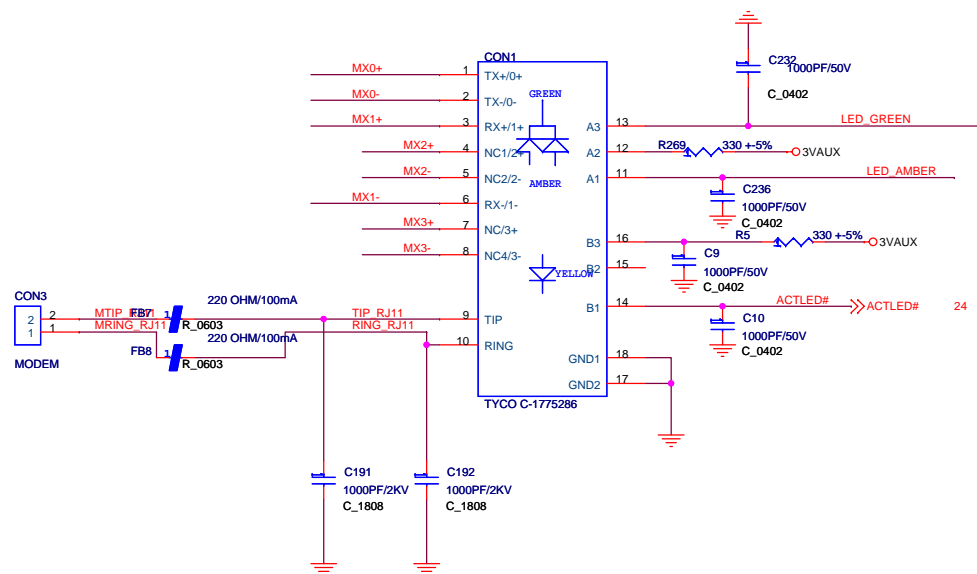
Place on the front of NB.



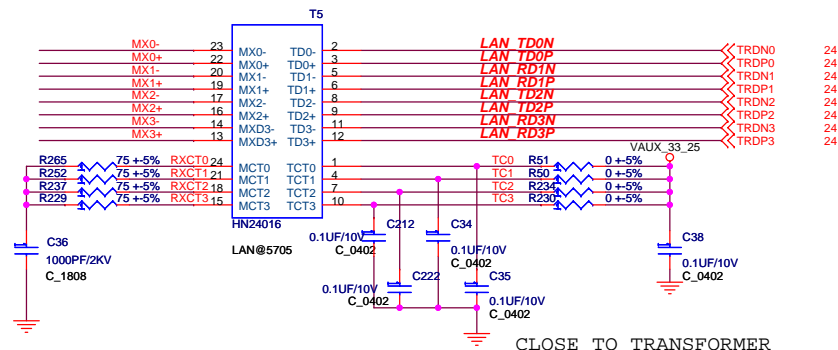
lenovo联想		LENOVO.NOD HuZW LIXINP LIYJK LvXDA	
Title SWITCH LED			
Size Custom	Document Number Taurus2		Rev s0.1
Date: Thursday, June 29, 2006	Sheet 23	of 40	
PROPERTY NOTE: this document contains information confidential and property to LENOVO PND and shall not be reproduced or transferred to other documents or disclosed to others or used for any purpose other than that for which it was obtained without the expressed written consent of LENOVO PND.*			

	4401	5788
R401	NS	S
R402	S	NS
R384	NS	S
R388	S	NS
PB21 C337 C323	NS	S
R84	1.27K 1%	1.24K 1%
Q10 Q34	NS	S
R83 R82	NS	S
R305 R306	NS	S
R307 R308	NS	S
C277 C274	NS	S
J4	S	NS
J17	NS	S



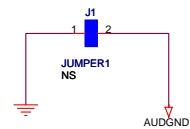


EMI PAD

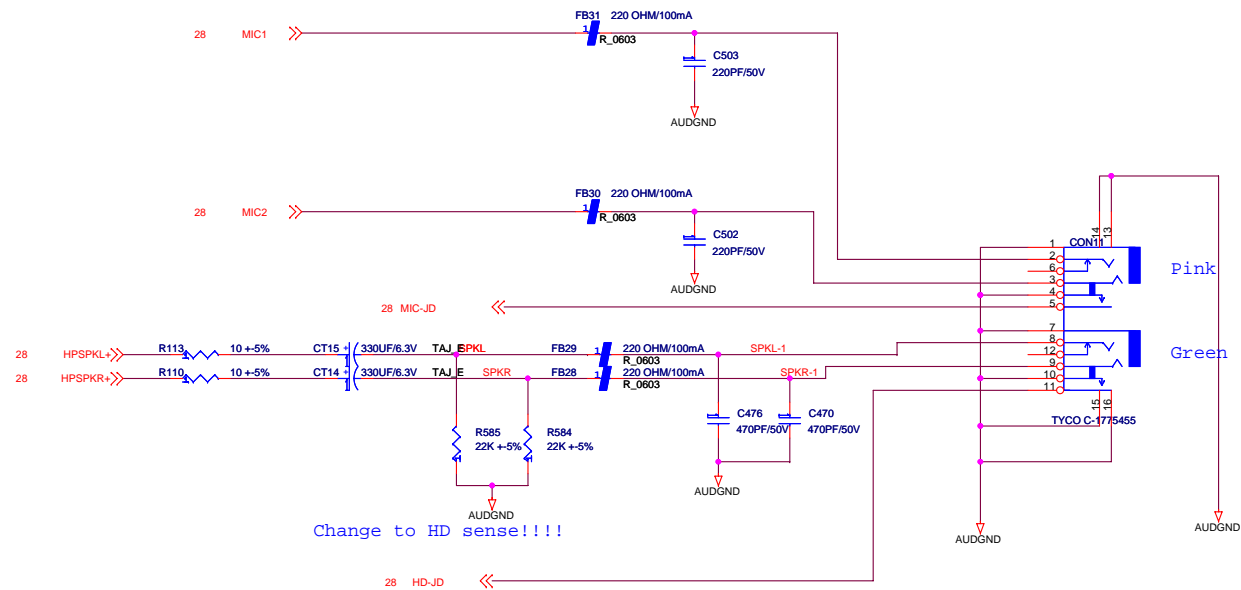


CLOSE TO TRANSFORMER

lenovo联想		LENOVO.NOD HuZW LIXINP LiYJK LvXDA	
Title			
RJ45 RJ11			
Size	Document Number		Rev s0.1
Custom	Taurus2		
Date:	Thursday, June 29, 2006	Sheet	25 of 40
PROPERTY NOTE: this document contains information confidential and property to LENOVO PND and shall not be reproduced or transferred to other documents or disclosed to others or used for any purpose other than that for which it was obtained without the expressed written consent of LENOVO PND.*			



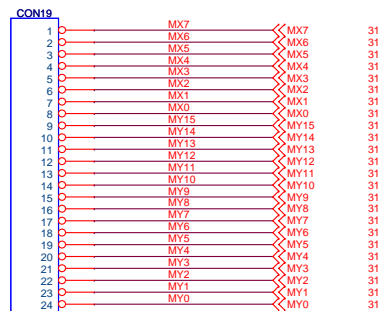
J1 is only for Layout convenience. GND and AUDGND must be connected in inner layer.



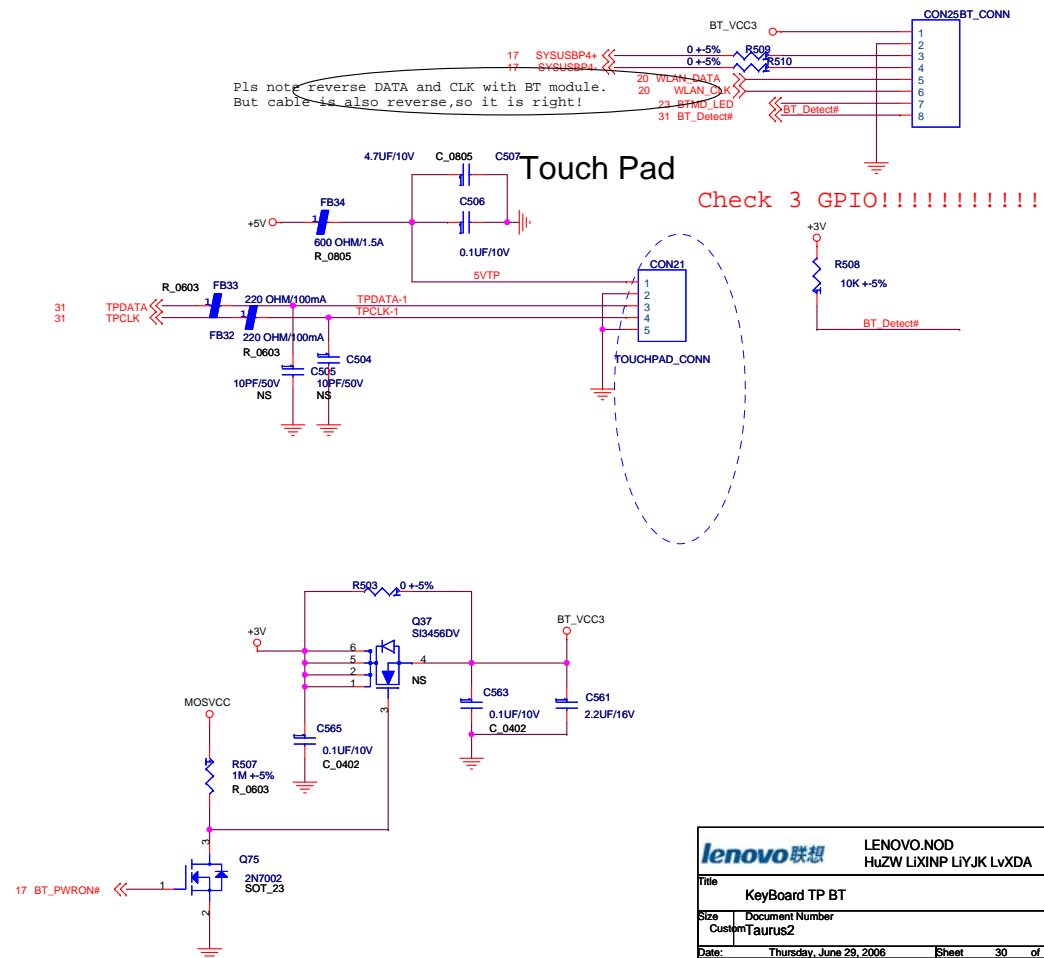
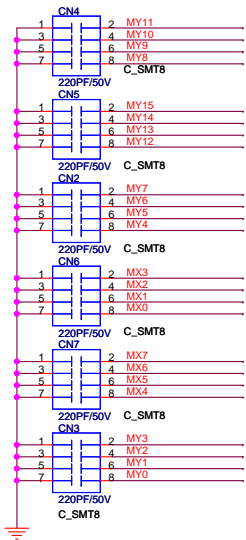
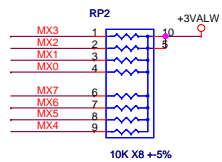
Consider to reserve PLUG signal in AC 97 platform



lenovo联想		LENOVO.NOD HuZW LiXINP LiYJK LvXDA	
File AUDIO JACK			
Size Custom	Document Number Taurus2		Rev s0.1
Date: Thursday, June 29, 2006	Sheet 29	of 40	
PROPERTY NOTE: this document contains information confidential and property to LENOVO PND and shall not be reproduced or transferred to other documents or disclosed to others or used for any purpose other than that for which it was obtained without the expressed written consent of LENOVO PND.*			

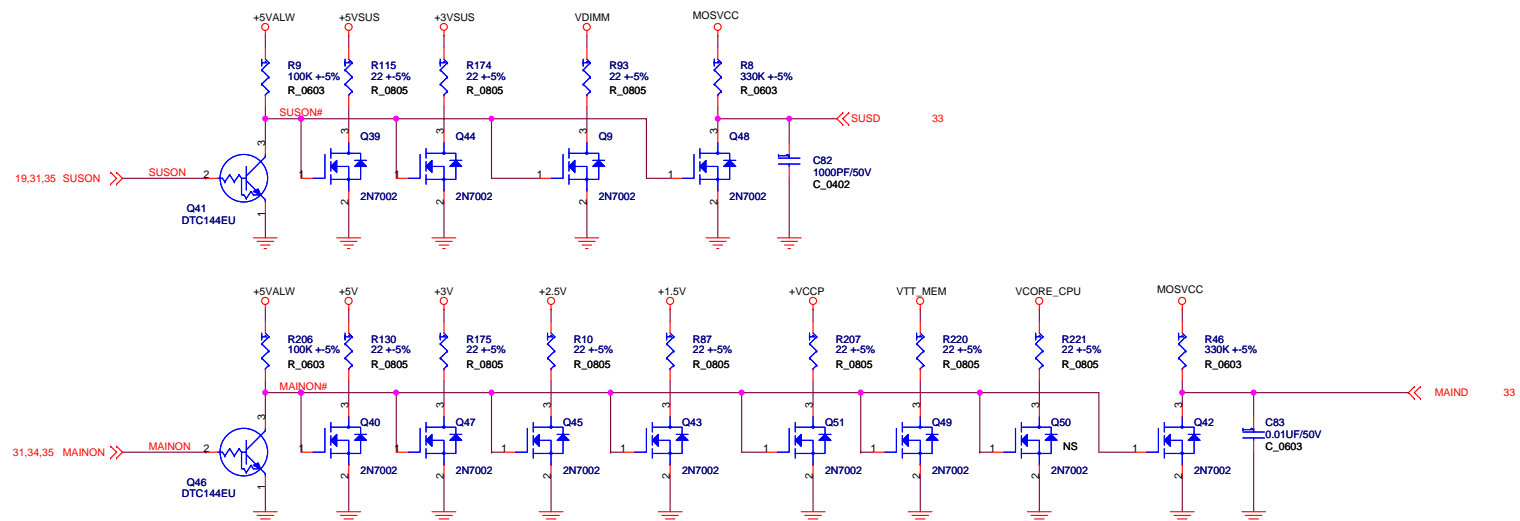
Check Keyboard matrix



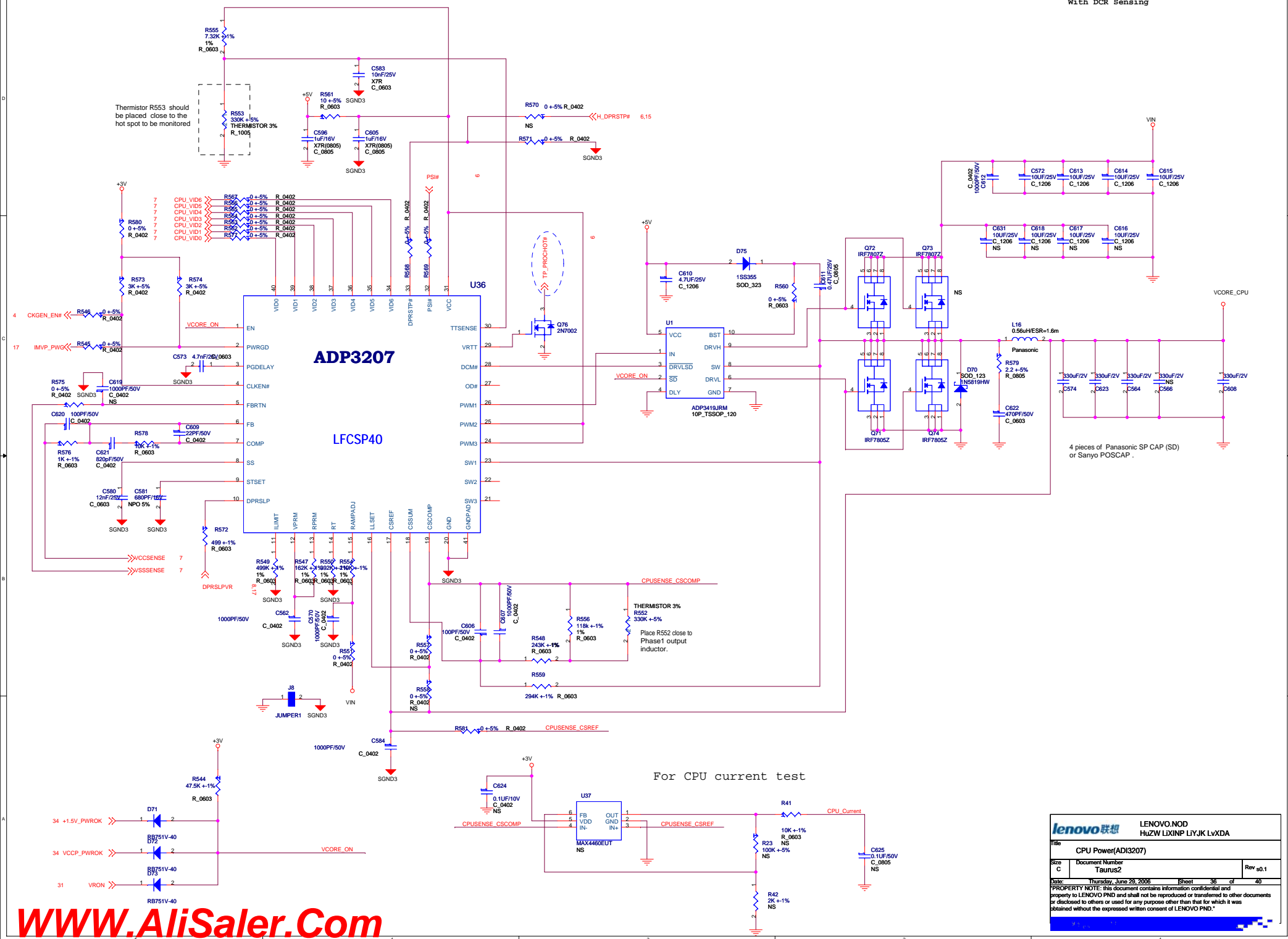
NEED CHECK STICK POINTER PIN DEFINE

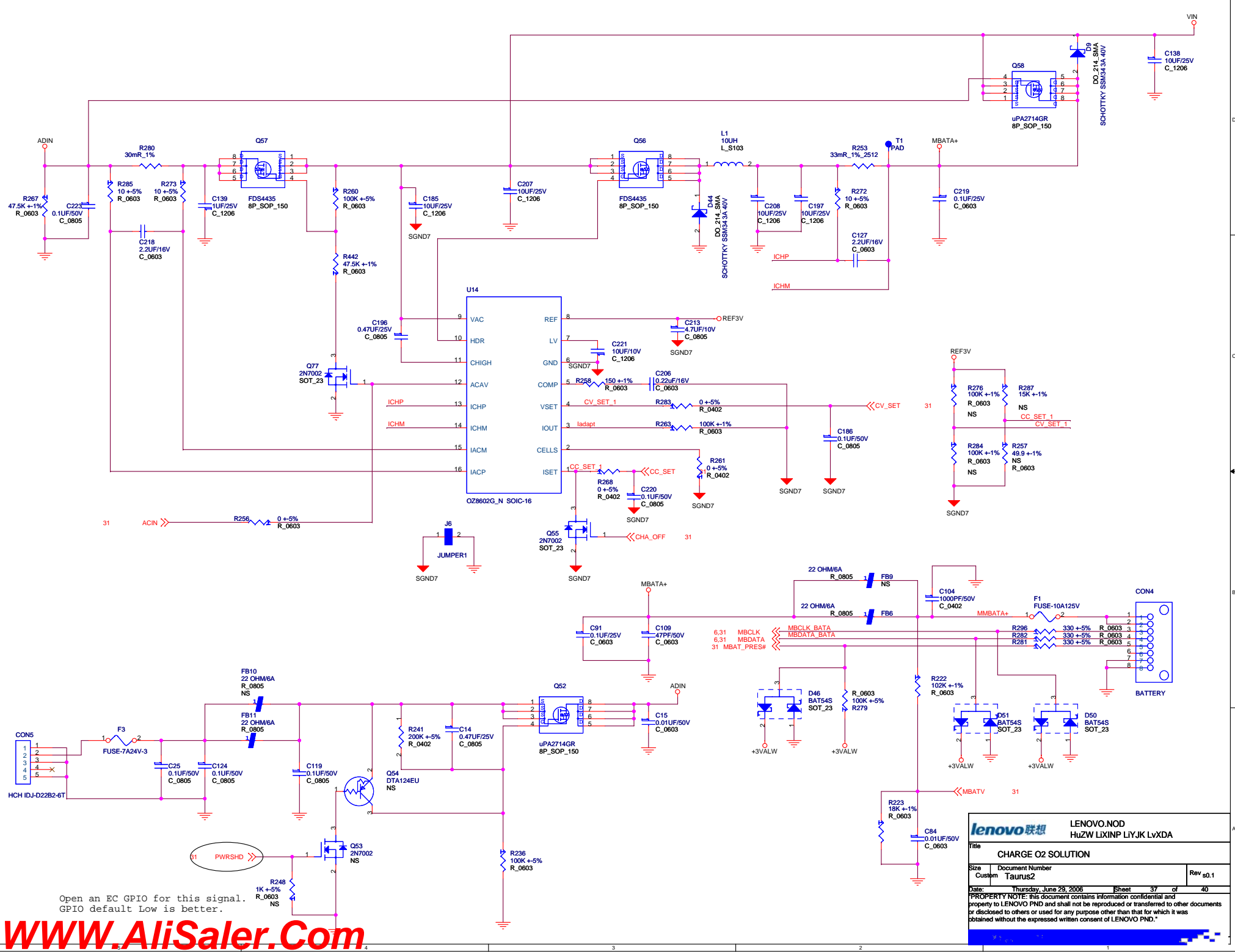


 		LENOVO.NOD HUZW LIXNP LIYJK LVXDA	
Title			
KeyBoard TP BT			
Size	Document Number		Rev
Custom	Taurus2		0.1
Date:	Thursday, June 29, 2006	Sheet	30 of 40
<p>PROPERITY NOTE: this document contains information confidential and property to LENOVO PND and shall not be reproduced or transferred to other customers or disclosed to others or used for any purpose other than that for which it was obtained without the expressed written consent of LENOVO PND.</p>			

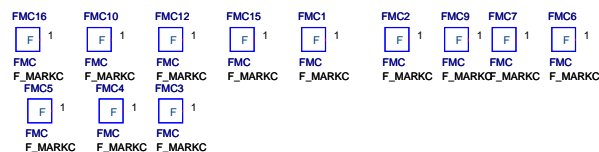
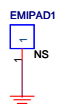
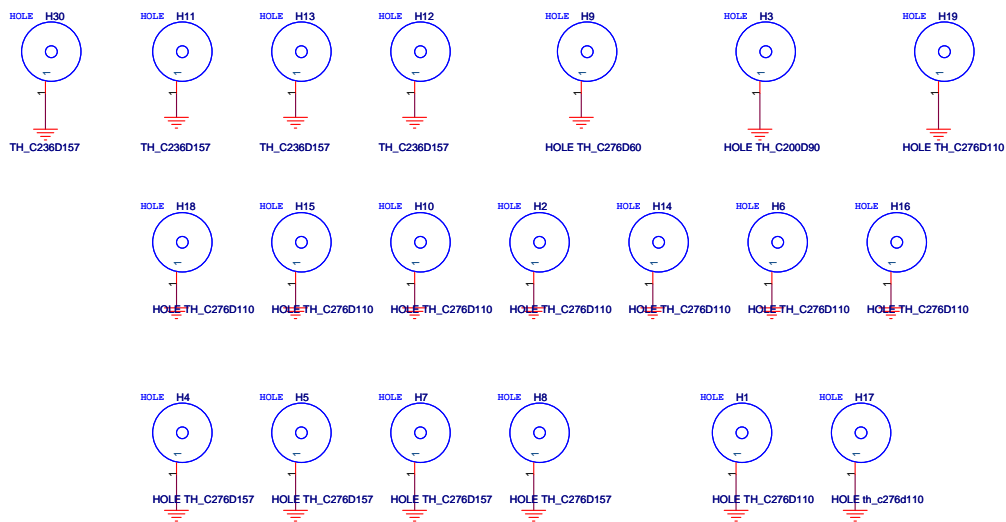


lenovo 联想		LENOVO.NOD HuZW LIXINP LiYJK LvXDA	
Title Discharge			
Size Custom	Document Number Taurus2		Rev s0.1
Date:	Thursday, June 29, 2006	Sheet 32 of 40	
[PROPERTY NOTE: this document contains information confidential and property to LENOVO PND and shall not be reproduced or transferred to other documents or disclosed to others or used for any purpose other than that for which it was obtained without the expressed written consent of LENOVO PND.]			



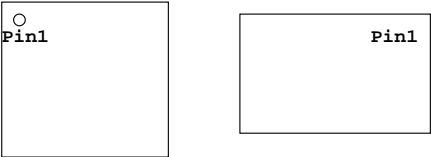


lenovo联想		LENOVO.NOD	
		HuZW LiXINP LiYJK LvXDA	
Title			
CHARGE O2 SOLUTION			
Size	Document Number	Rev s0.1	
Custom	Taurus2		
Date:	Thursday, June 29, 2006	Sheet	37 of 40
PROPERTY NOTE: this document contains information confidential and property to LENOVO PND and shall not be reproduced or transferred to other documents or disclosed to others or used for any purpose other than that for which it was obtained without the expressed written consent of LENOVO PND.*			




lenovo 联想		LENOVO.NOD HuZW LIXINP LIYJK LvXDA	
Title EMI PADS & HOLES			
Size Custom	Document Number Taurus2		Rev s0.1
Date Thursday, June 29, 2006	Sheet 38	of 40	
<small> (PROPERTY NOTE: this document contains information confidential and property to LENOVO PND and shall not be reproduced or transferred to other documents or disclosed to others or used for any purpose other than that for which it was obtained without the expressed written consent of LENOVO PND.) </small>			

Check with the PICARSO!!



	5	4	3	2	1
D					D
C					C
B					B
A					A

 <div> <div>LENOVO.NOD</div> <div>HuZW LiXINP LiYJK LvXDA</div> </div>		
<div>Title</div> <div>Change list</div>		
<div>Size</div> <div>A</div>	<div>Document Number</div> <div>Taurus2</div>	<div>Rev</div> <div>s0.1</div>
<div>Date: Thursday, June 29, 2006</div> <div>Sheet 40 of 40</div>		
<div> <div> <div>PROPERTY NOTE: this document contains information confidential and property to LENOVO PND and shall not be reproduced or transferred to other documents or disclosed to others or used for any purpose other than that for which it was obtained without the expressed written consent of LENOVO PND."</div> <div></div> </div> </div>		