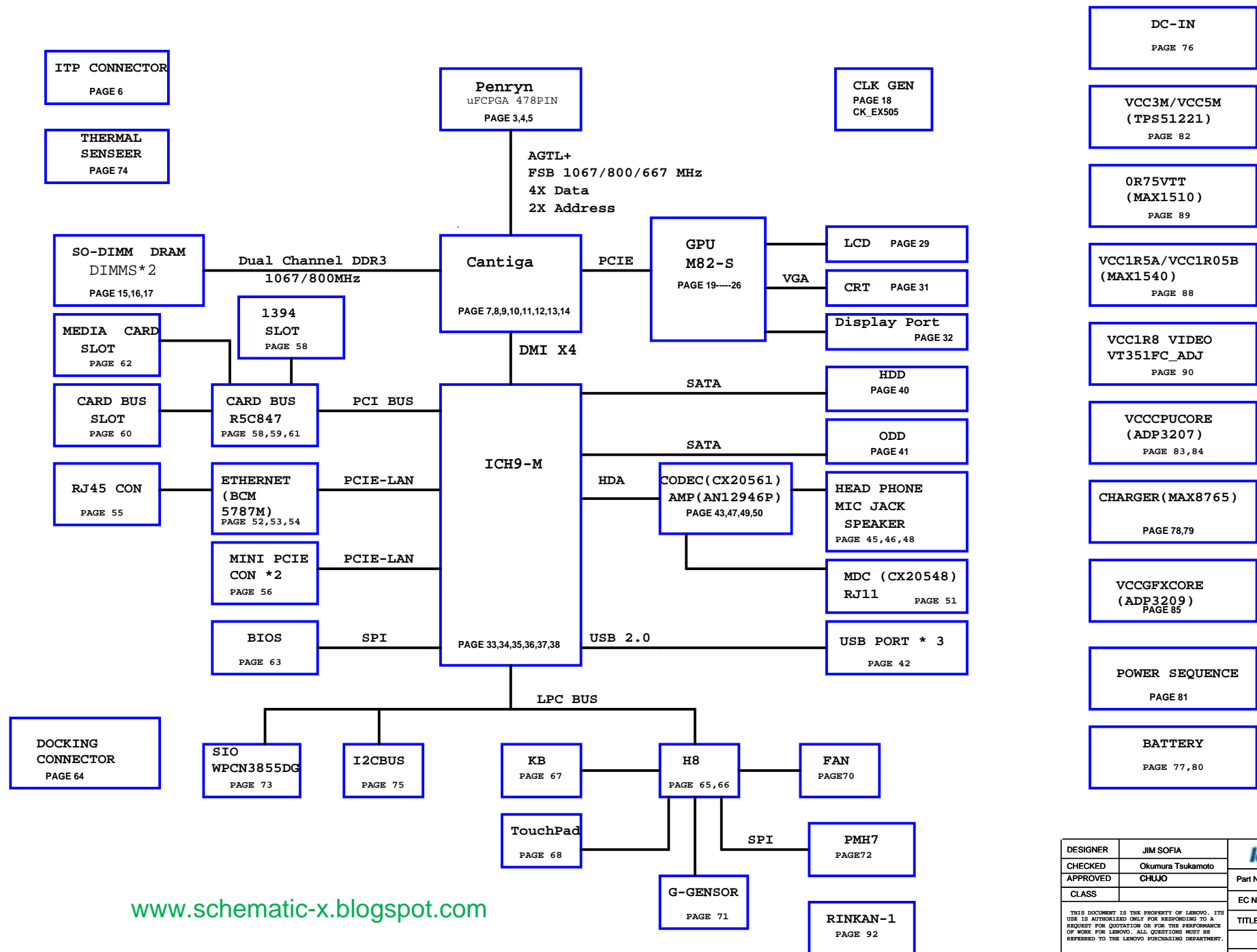



**Waikiki-3 EXT SVT LOGIC SCHEMATIC 20080423**



DESIGNER	JIM SOFIA	
CHECKED	Okumura Tsukamoto	
APPROVED	CHUJO	
CLASS		
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		TITLE: Walk3c-EXT SIT  TITLE PAGE
LENOVO CONFIDENTIAL		sheet 1 of 101 Wednesday, April 23, 2008

- SDV
1. no assembly L9014\R8002\R7400

2. add predv debug issues should rework in next gerber comment

3. assemble R7302

4. adjust GFX power rail: adjunct R526/ C482/R418/C434

- MECH SIV
1. BOM Update ( EC342 to EC347 )

- SIV
1. Update EC from WK3\_SIV\_EC001 to WK3\_SIV\_EC019

2. Update Capacitor value discription to meet yamato request

3. Update EC from WK3\_SIV\_EC020 to WK3\_SIV\_EC070

4. Update EC from WK3\_SIV\_EC071 to WK3\_SIV\_EC083 Gerber release

5. Update EC from WK3\_SIV\_EC084 to WK3\_SIV\_EC105

- Mech SIT
1. Update EC from WK3\_SIV\_EC106 to WK3\_SIV\_EC115

- SIT
1. Update EC from WK3\_SIT\_EC001 to WK3\_SIT\_EC020

2. Update EC from WK3\_SIT\_EC021 to WK3\_SIT\_EC047

3. Update EC from WK3\_SIT\_EC048 to WK3\_SIT\_EC061

4. Update EC from WK3\_SIT\_EC062 to WK3\_SIT\_EC068

SIT\_GERBER OUT 20070227

5. Update EC from WK3\_SIT\_EC069 to WK3\_SIT\_EC071

- SVT
1. Update EC from WK3\_SVT\_EC001 to WK3\_SVT\_EC015

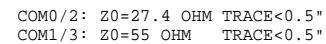
2. change TP56/TP57/TP58 footprint ( 20080417 gerber out)

3. 20080421 release gerber : change TP57 footprint

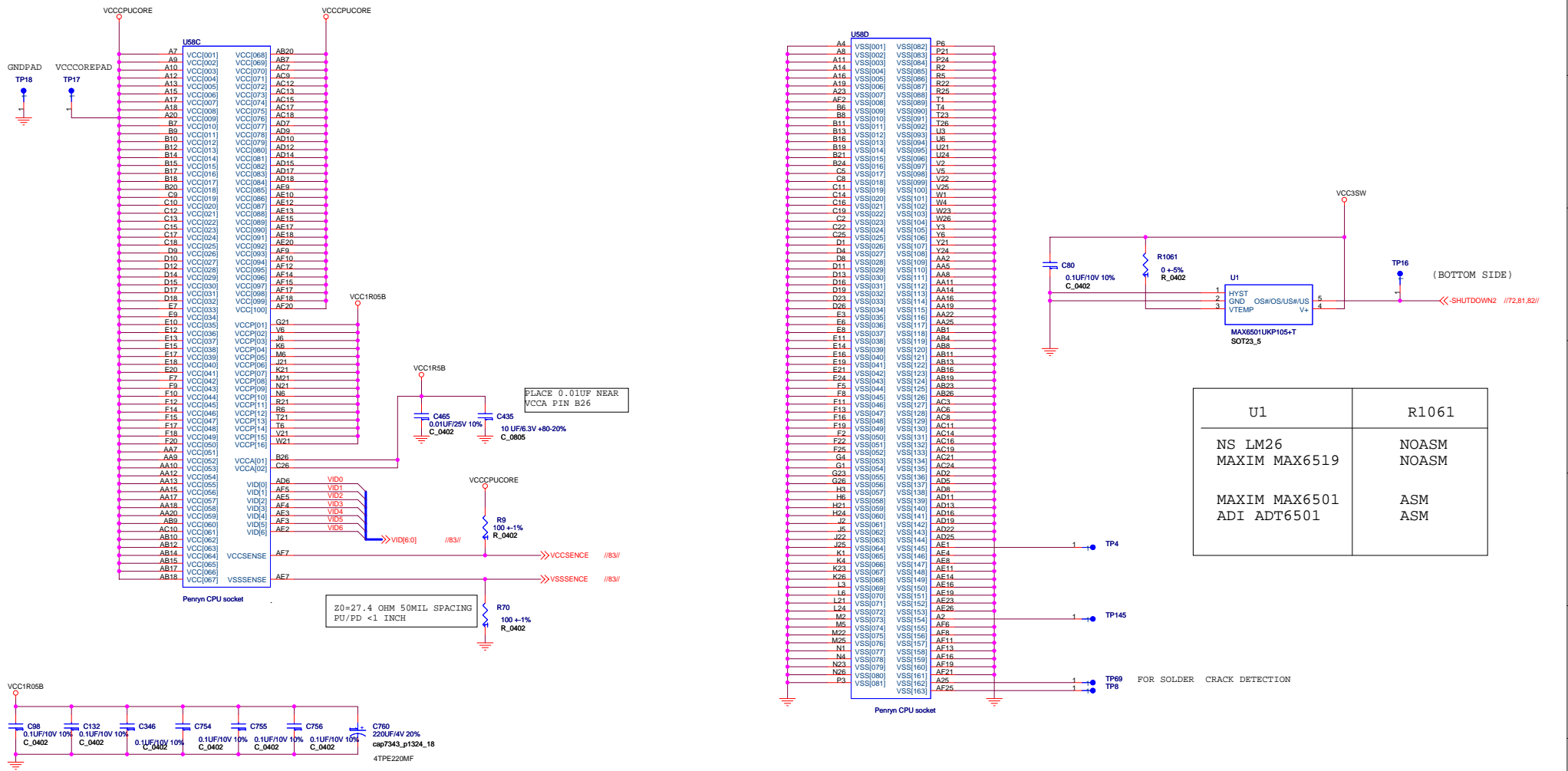
4. Update U2 partnumbr to 41R0840, Update EC from WK3\_SVT\_EC016 to WK3\_SVT\_EC018

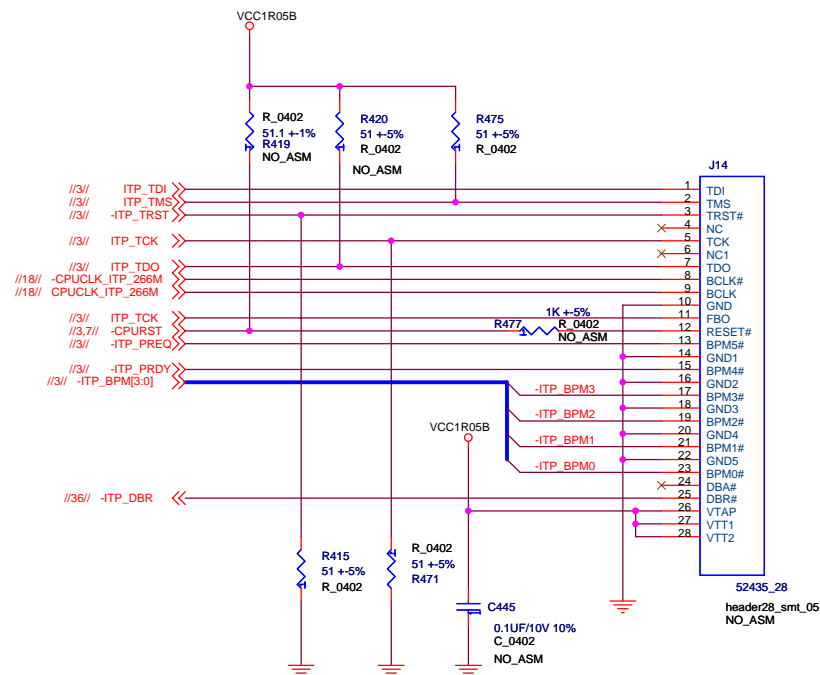
DESIGNER	JIM SOFIA	<div>lenovo联想</div> <div>Part No . 44C4352</div> <div>EC No . L53251</div> <div>TITLE: Waikiki3-EXT SIT</div> <div>EC LIST</div> <div>sheet 2 of 101</div> <div>Wednesday, April 23, 2008</div>
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APPROVED	CHUJO	
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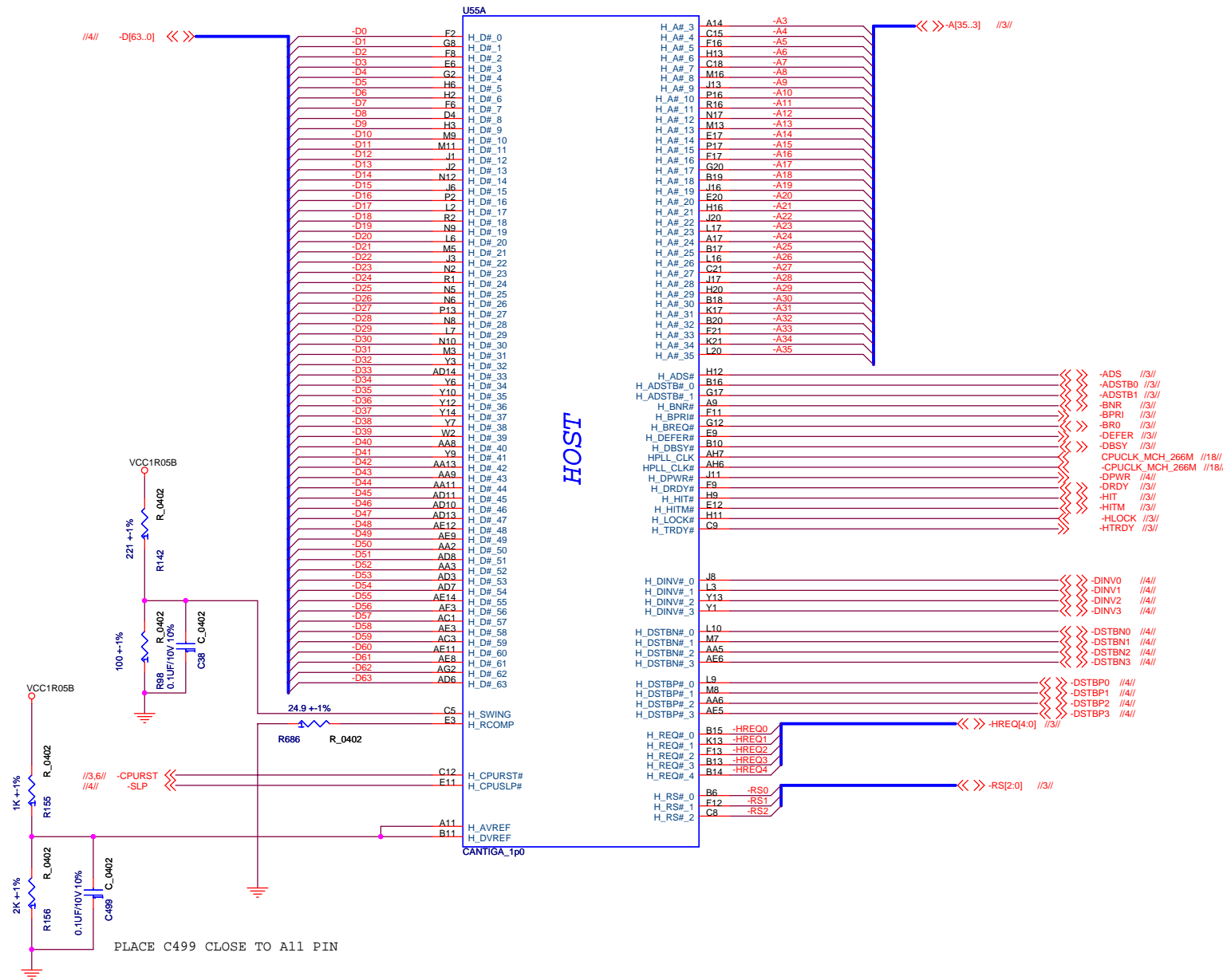





REF	DES	PRODUCTION (Logic)	ITP700FLEX	ITP-XDP
J14		NOASM	ASM	ASM
C445		NOASM	ASM	ASM
R717		ASM	150 5% ASM	ASM(No Change
R477		NOASM	150 5% ASM	1K 5% ASM
R415		ASM	510 5% ASM	ASM(No Change
R420		NOASM	51 5% ASM	51 5% ASM
R471		ASM	27.4 1% ASM	ASM(No Change
R475		ASM	39.2 1% ASM	ASM(No Change

(\*1) TCK SIGNAL IS BRANCHED AT Penryn PIN  
(\*2) -CPURST SIGNAL IS BRANCHED AT Cantiga PIN

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APPROVED	CHUJO	
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		EC No . L53251
		TITLE: Waikiki3-EXT SIT
		ITP CONN
LENOVO CONFIDENTIAL		sheet 6 of 101 Tuesday, April 01, 2008



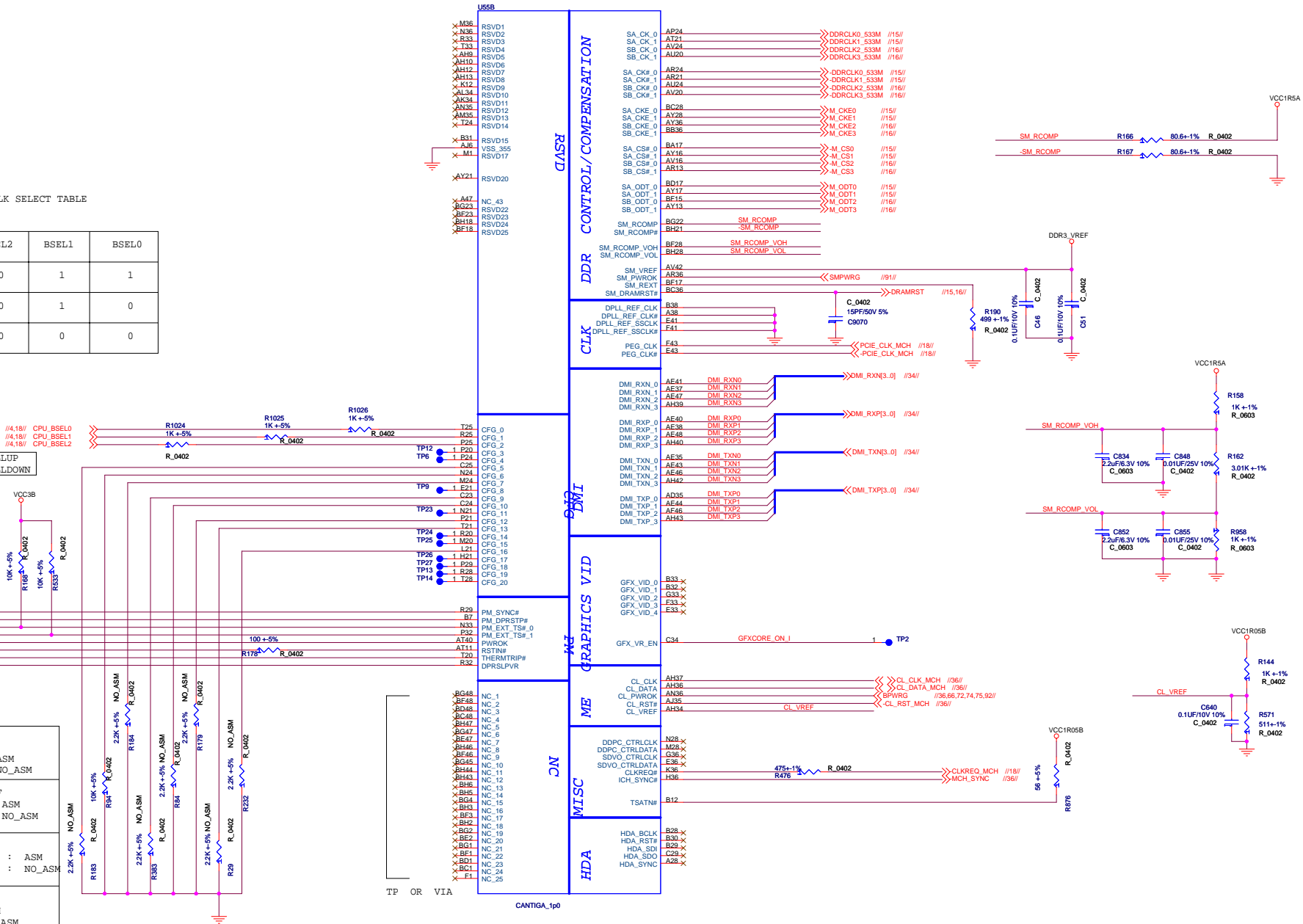
DESIGNER	JIM SOFIA	 Part No. 44C4352 EC No. L53251 TITLE: Waikiki-EXT SIT CANTIGA HOST sheet 7 of 101 Tuesday, April 01, 2008
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HOST BUS CLK SELECT TABLE

	BSEL2	BSEL1	BSEL0
667M	0	1	1
800M	0	1	0
1066M	0	0	0

CFG[17..3] INTERNAL PULLUP  
CFG[20:18] INTERNAL PULLDOWN

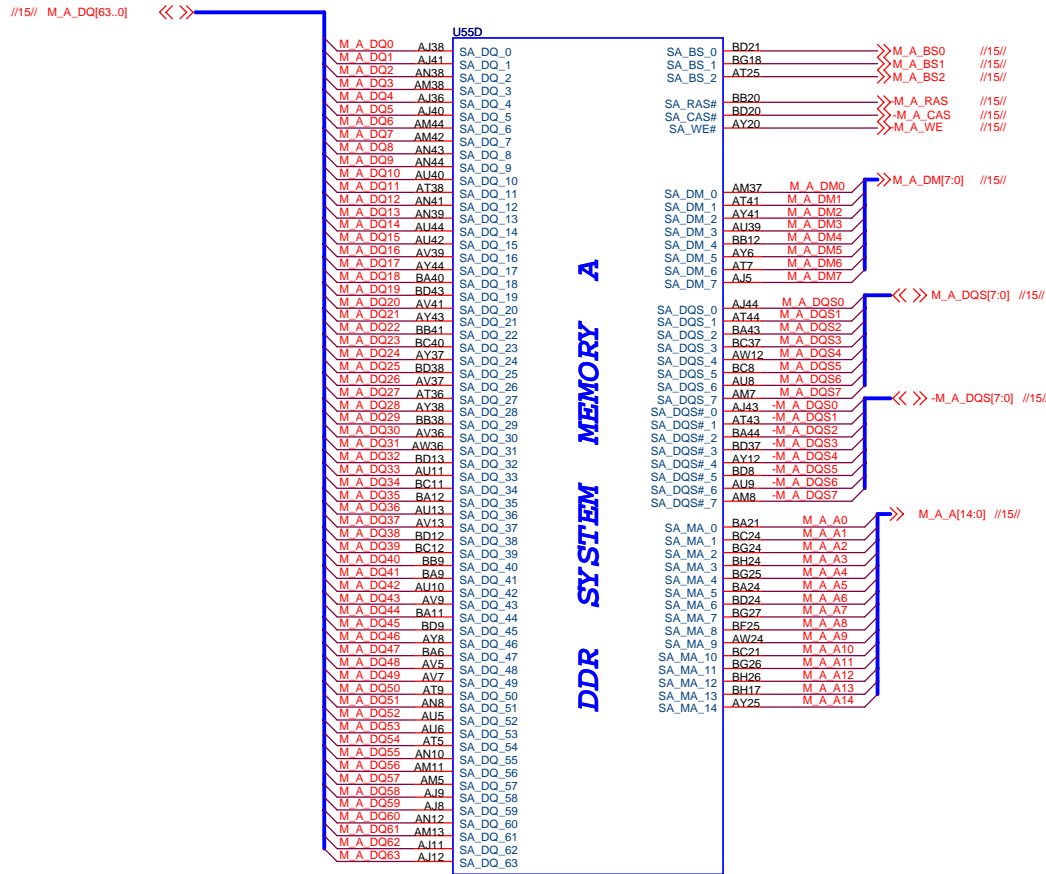
CFG5	DMI	R183
	X2	: ASM
	X4	: NO_ASM
CFG6	ITPM	HOST I/F
	ENABLE	: ASM
	DISABLE	: NO_ASM
CFG7	ME	CRYPTO STRAP
	NO CONFIDENTIALITY	: ASM
	WITH CONFIDENTIALITY	: NO_ASM
CFG9	PEG	PORT R383
	LANE REVERSEL	: ASM
	NORMAL	: NO_ASM



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CLASS		EC No. L53251
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CANTIGA DMI		
LENVO CONFIDENTIAL		sheet 8 of 101 Tuesday, April 01, 2008

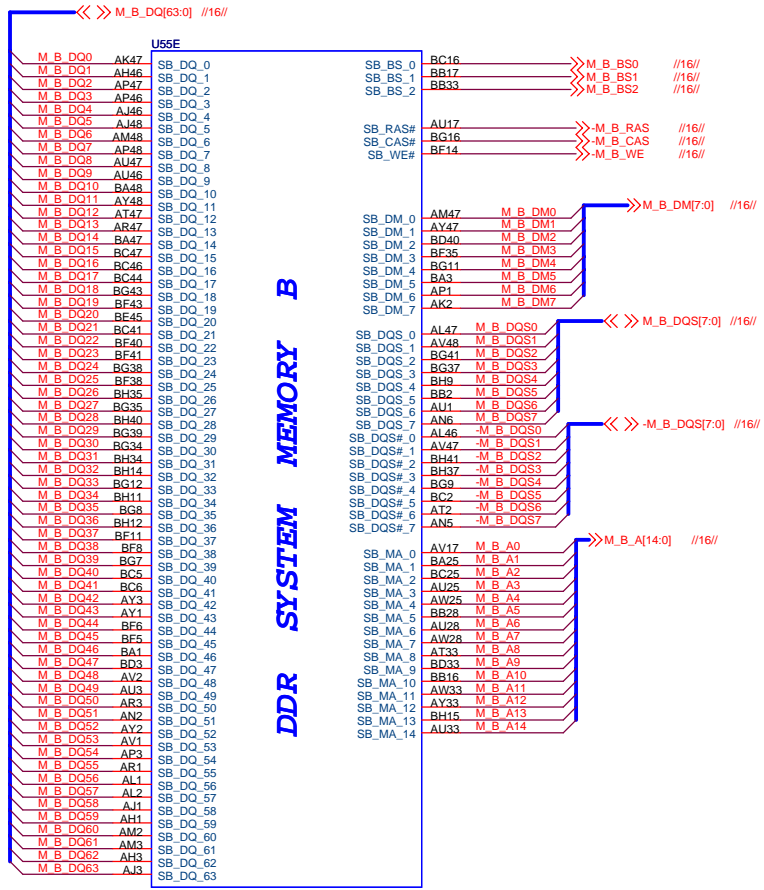


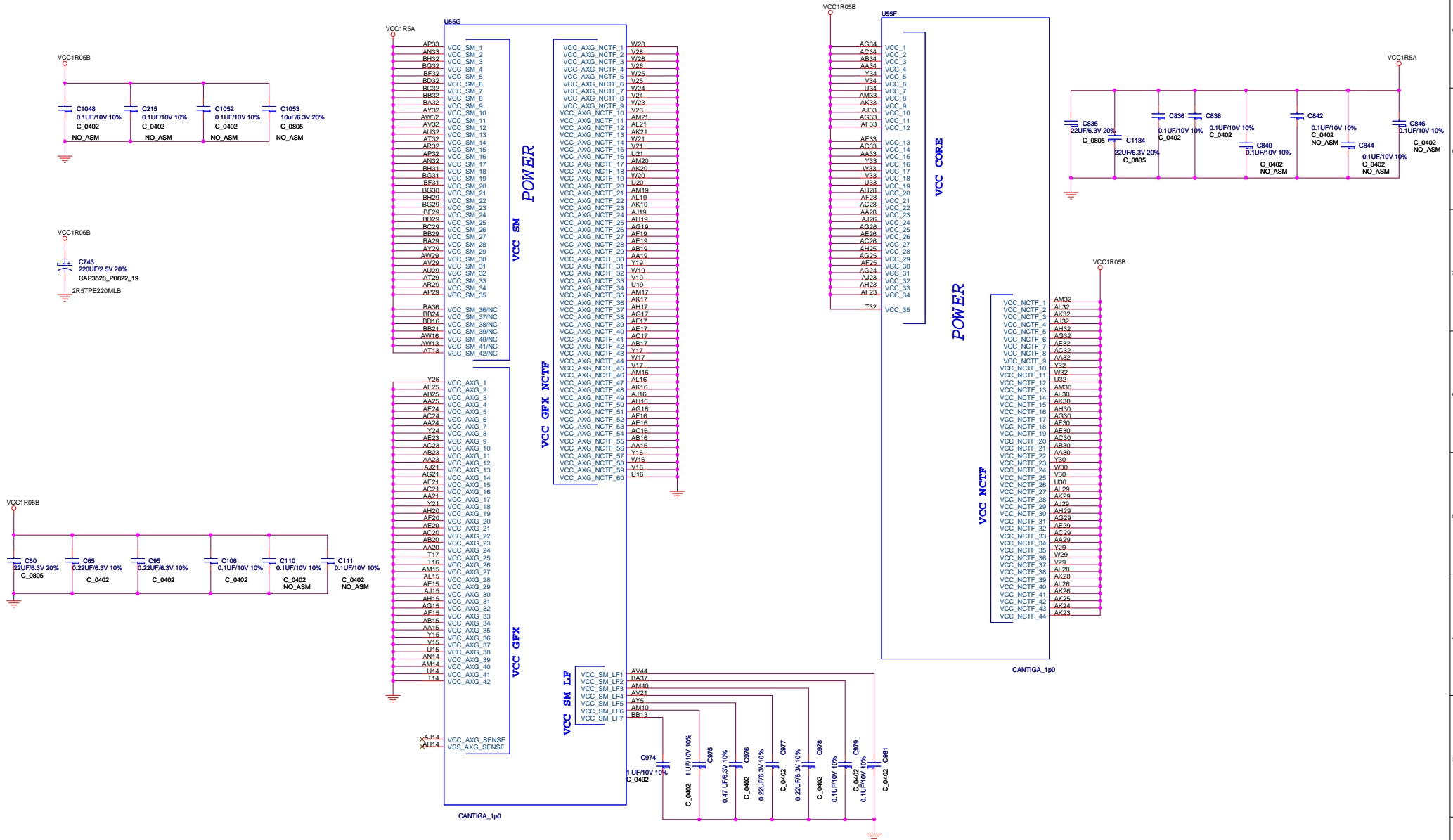




CANTIGA\_1p0

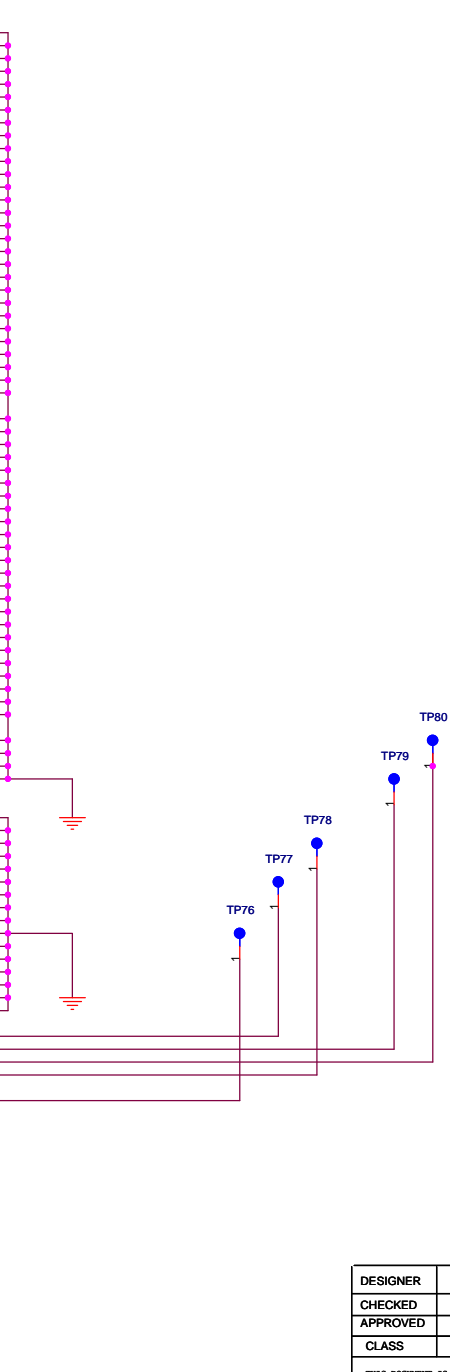
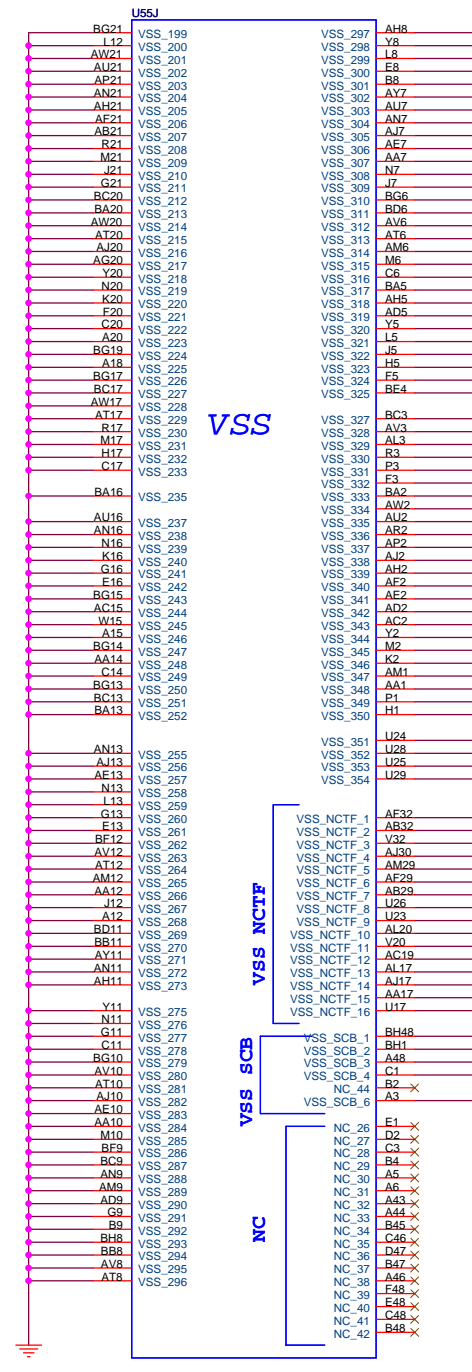
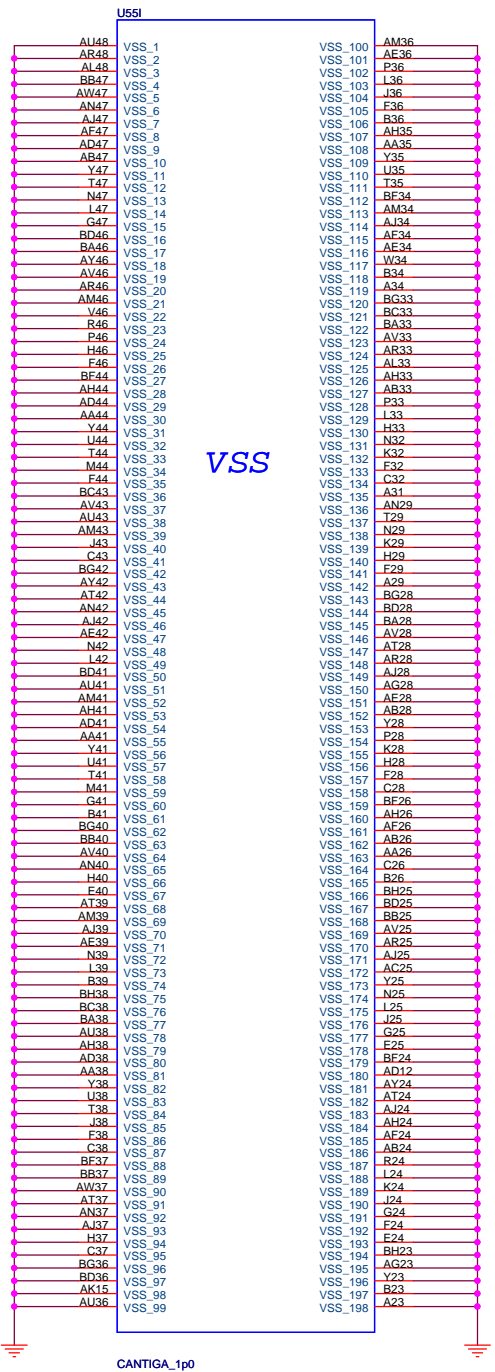
DESIGNER	JIM SOFIA	<div>lenovo联想</div> <div>Part No . 44C4352</div> <div>EC No . L53251</div> <div>TITLE: Waikiki-EXT SIT</div> <div>CANTIGA DDRIII A</div> <div>sheet 10 of 101</div> <div>Tuesday, April 01, 2008</div>
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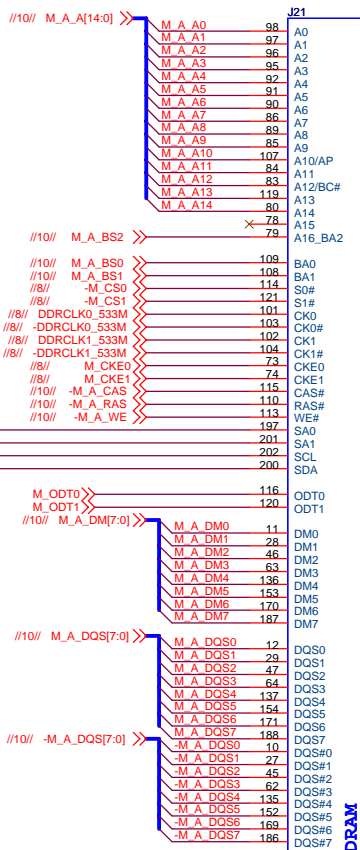
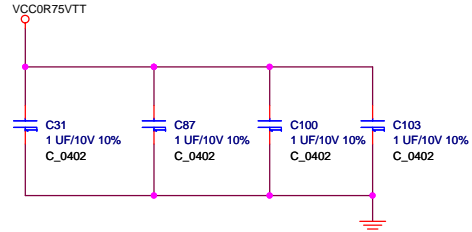
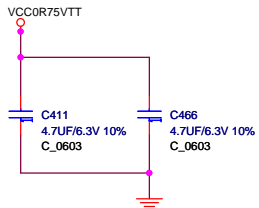
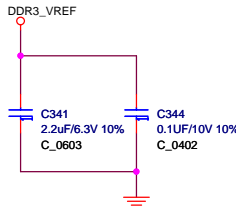
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CANTIGA POWER		
sheet	12 of 101	
Tuesday, April 01, 2008		
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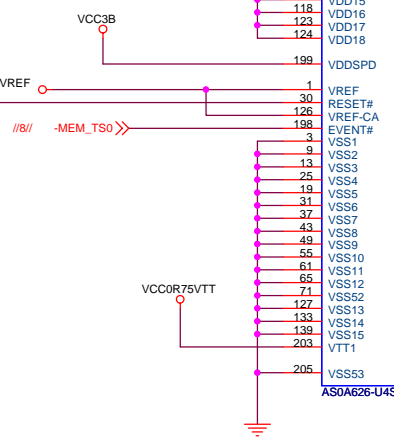


ADD TESTPAD ON BOTTOM SIDE FOR SOLDER CRACK DETECT

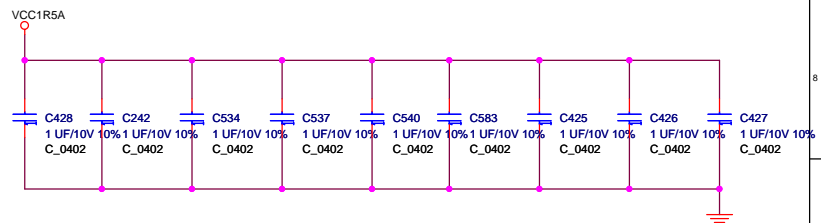
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LENOVO CONFIDENTIAL		TITLE: Waikiki-EXT SIT
sheet 14 of 101		CANTIGA GND
		Tuesday, April 01, 2008



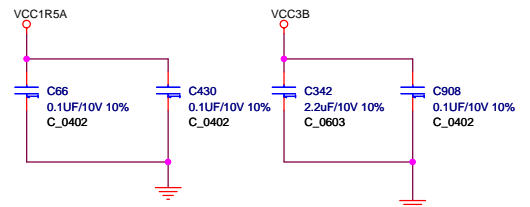
DDRIII SDRAM  
SO-DIMM (204P)



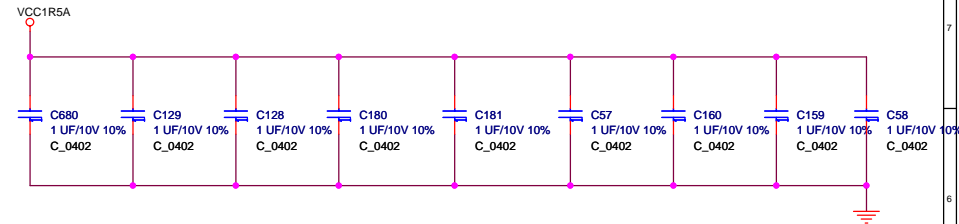
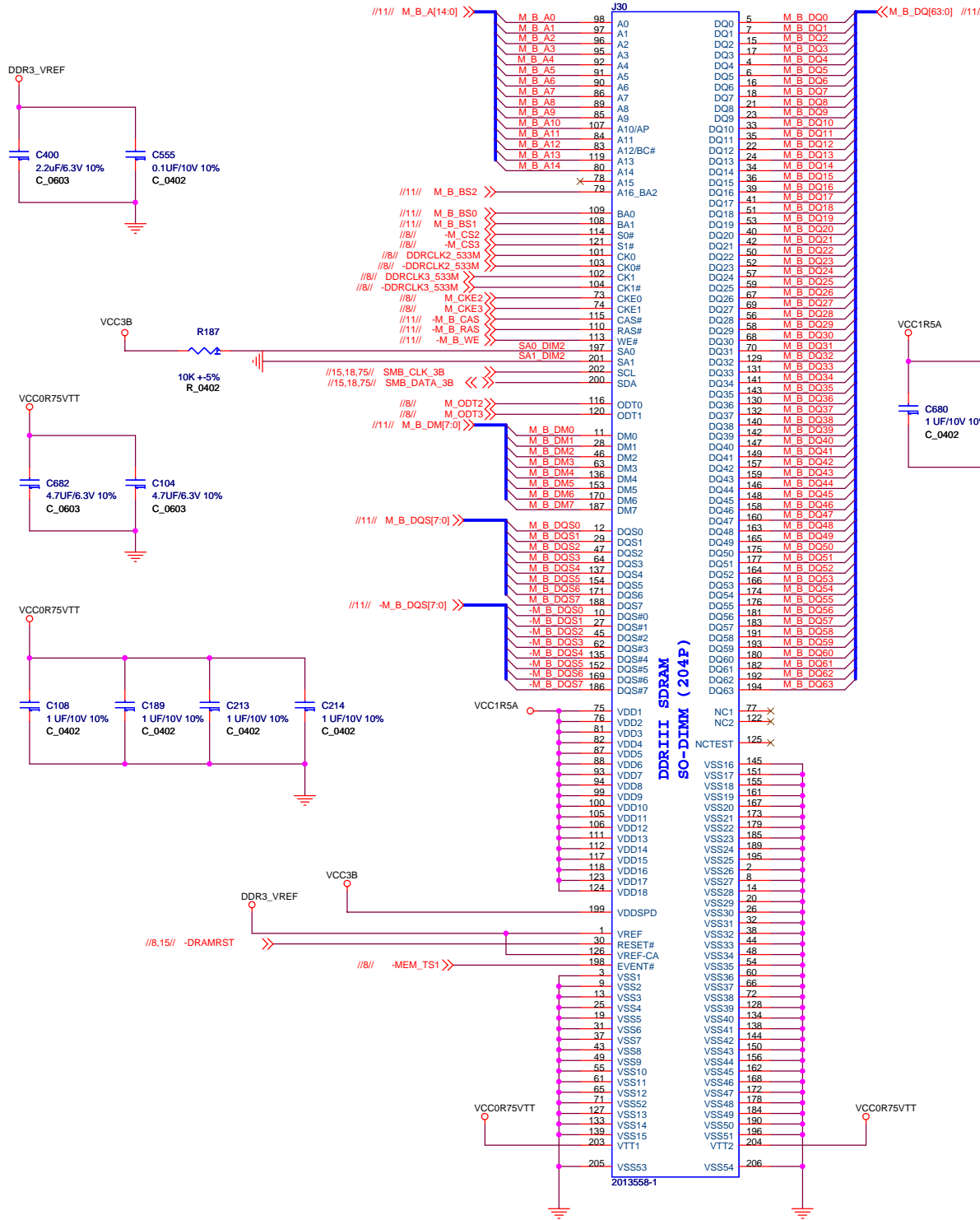
M\_A\_DQ[63:0] //10/



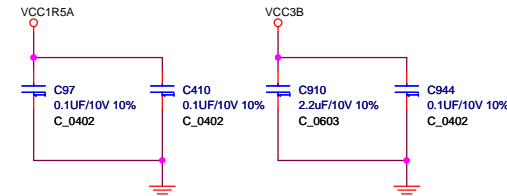
PLACE 1UF NEAR VCC1R5A PIN




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LENOVO CONFIDENTIAL		TITLE: Waikiki3-EXT SIT
		DDRIII SO-DIMM CHANNEL A
		sheet 15 of 101
		Tuesday, April 01, 2008

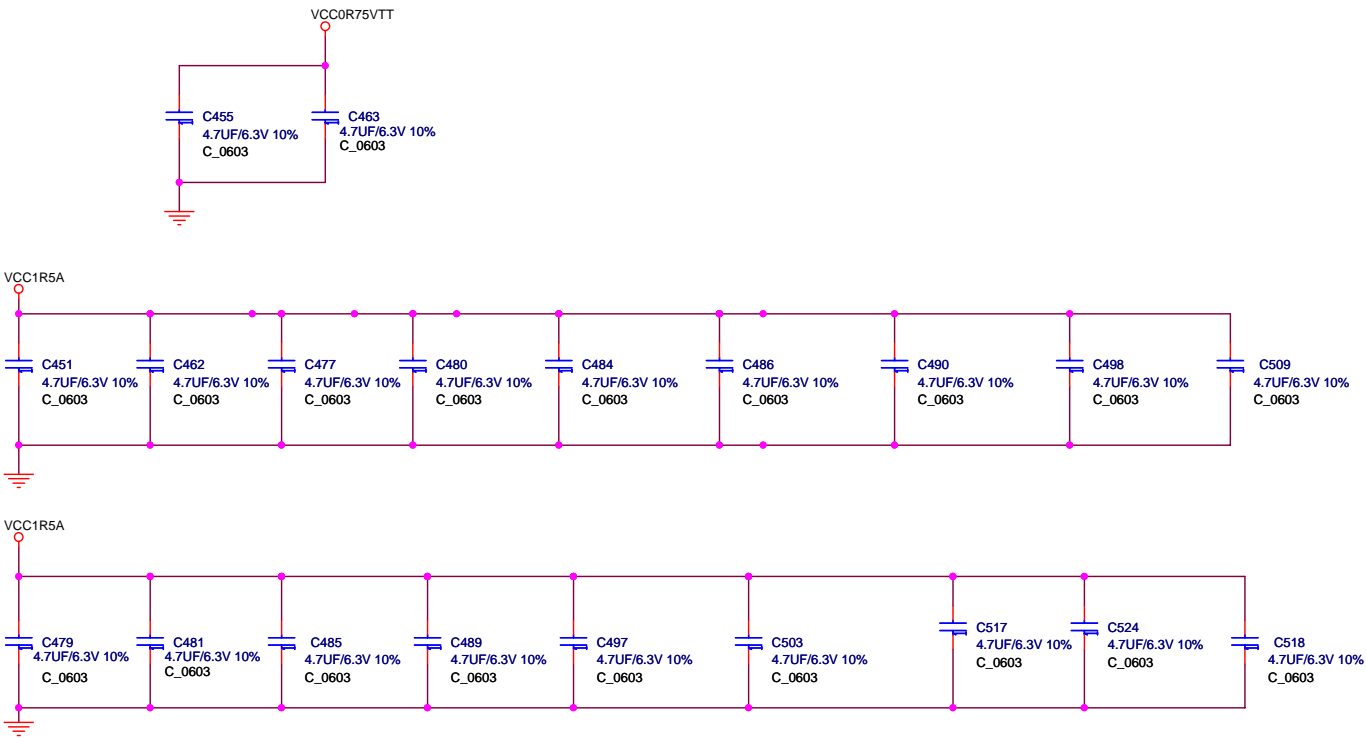


PLACE 1UF NEAR VCC1R5A PIN



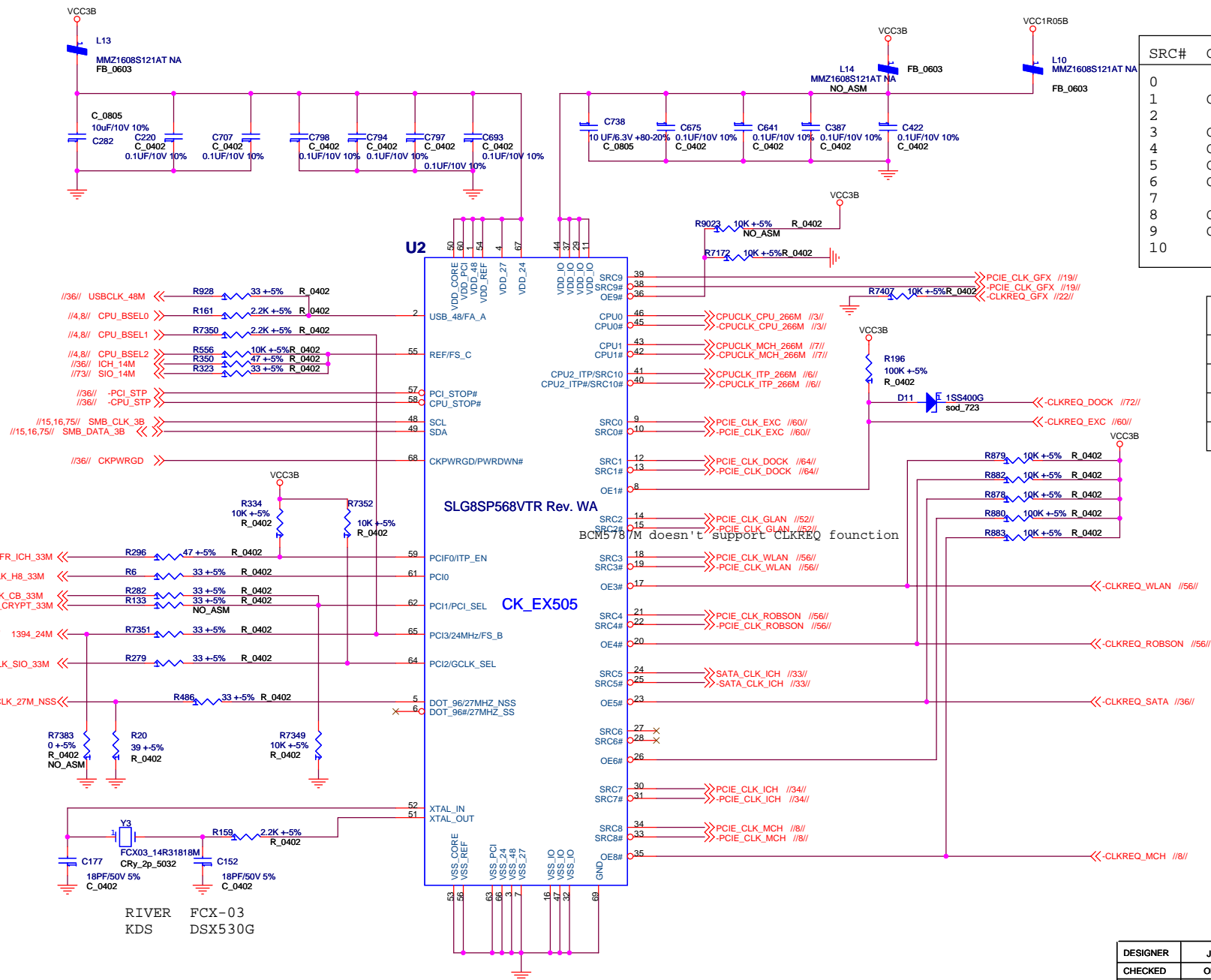
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LENOVO CONFIDENTIAL		DDR3 SO-DIMM CHANNEL B
		sheet 16 of 101 Tuesday, April 01, 2008





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		DDRIII DECOUPLING
LENOVO CONFIDENTIAL		sheet 17 of 101 Tuesday, April 01, 2008

PLACE AT LEAST 1 CAP FOR EACH VDD PINS




SRC#	OE#	DEVICE
0		EXPRESS CARD
1	OE#1	DOCK
2		GLAN
3	OE#3	WLAN
4	OE#4	ROBSON
5	OE#5	SATA
6	OE#6	RESERVED
7		ICH
8	OE#8	MCH
9	OE#9	GFX
10		ITP

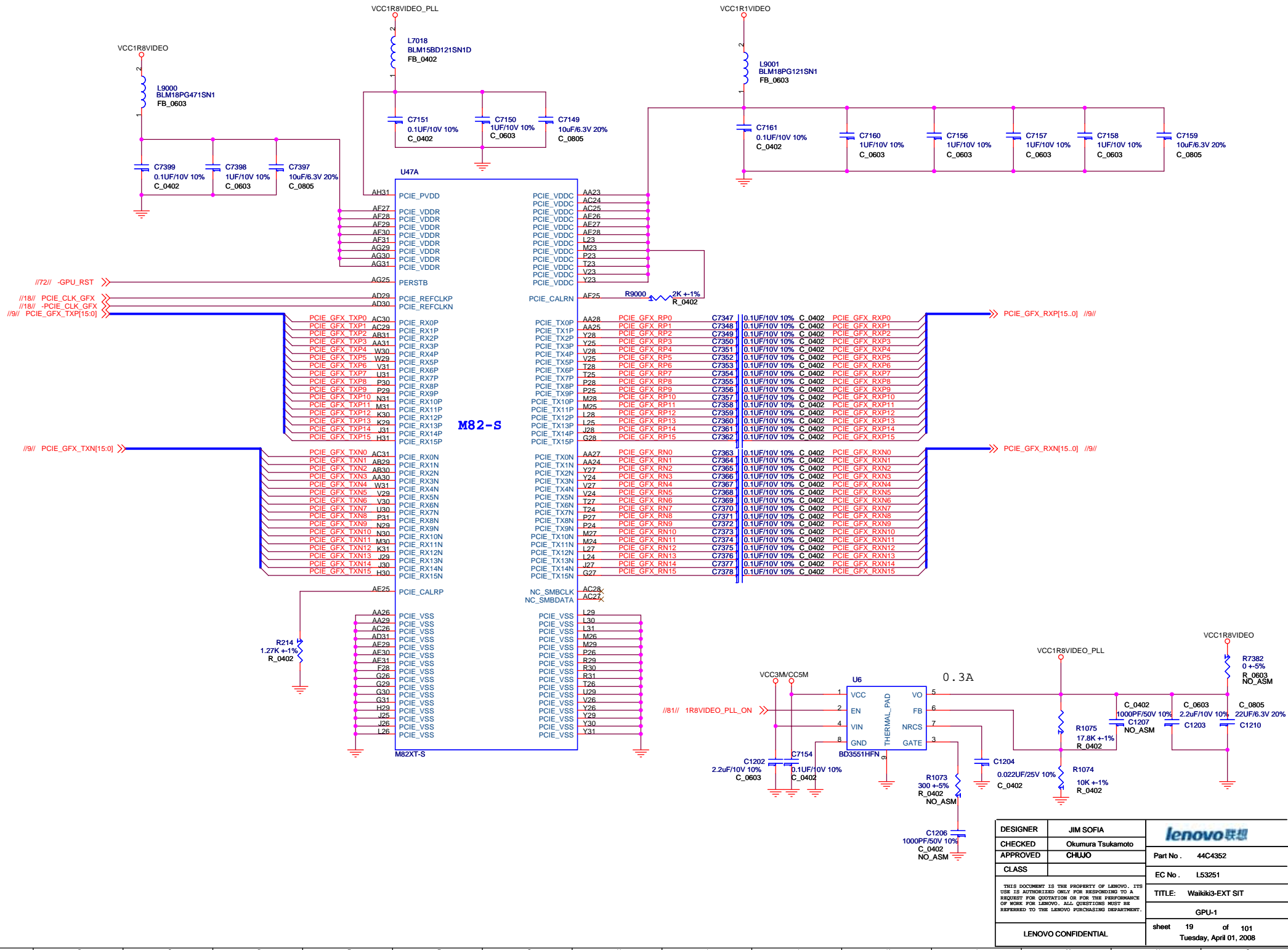
FSC BSEL2	FSB BSEL1	FSA BSEL0	CPU
0	1	1	166M
0	1	0	200M
0	0	0	266M
1	0	0	333M


BMC578/M doesn't support CLKREQ function

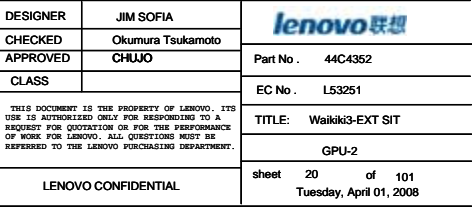
CK EX505

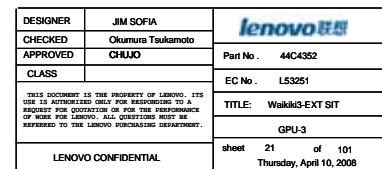
IEEE1394		
	Support	No support
-----		
R7351	ASM	NO_ASM
R7383	NO_ASM	ASM

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		CLOCK GEN	
LENOVO CONFIDENTIAL		sheet 18 of 101 Wednesday, April 23, 2008	

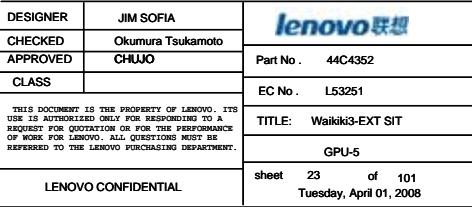


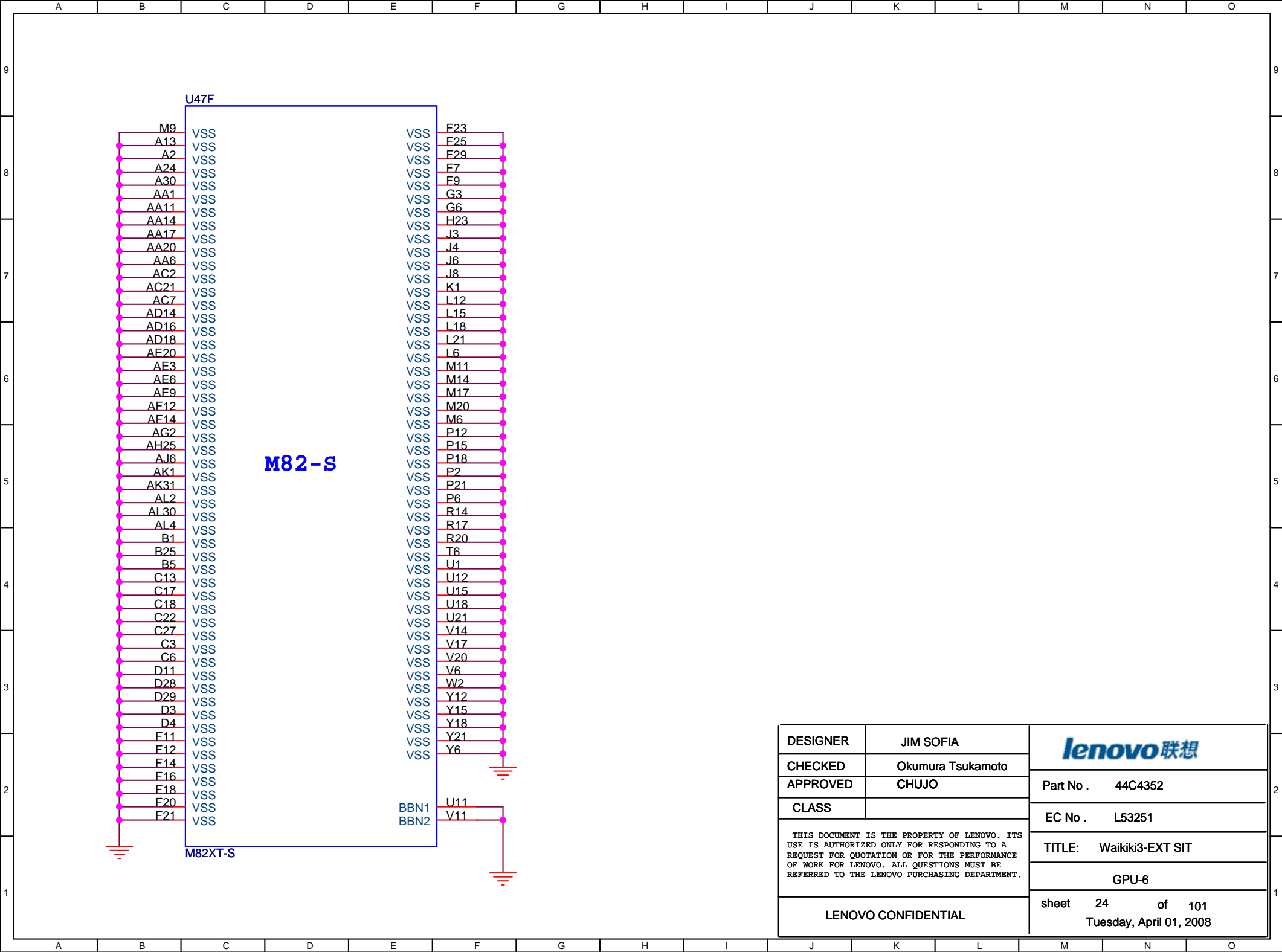
DESIGNER	JIM SOFIA	<div><div></div><div>Part No. 44C4352</div><div>EC No. L53251</div><div>TITLE: Waikiki-EXT SIT</div><div>GPU-1</div><div>sheet 19 of 101</div><div>Tuesday, April 01, 2008</div></div>
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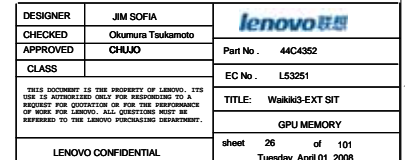
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		GPU-6
LENOVO CONFIDENTIAL		sheet 24 of 101 Tuesday, April 01, 2008

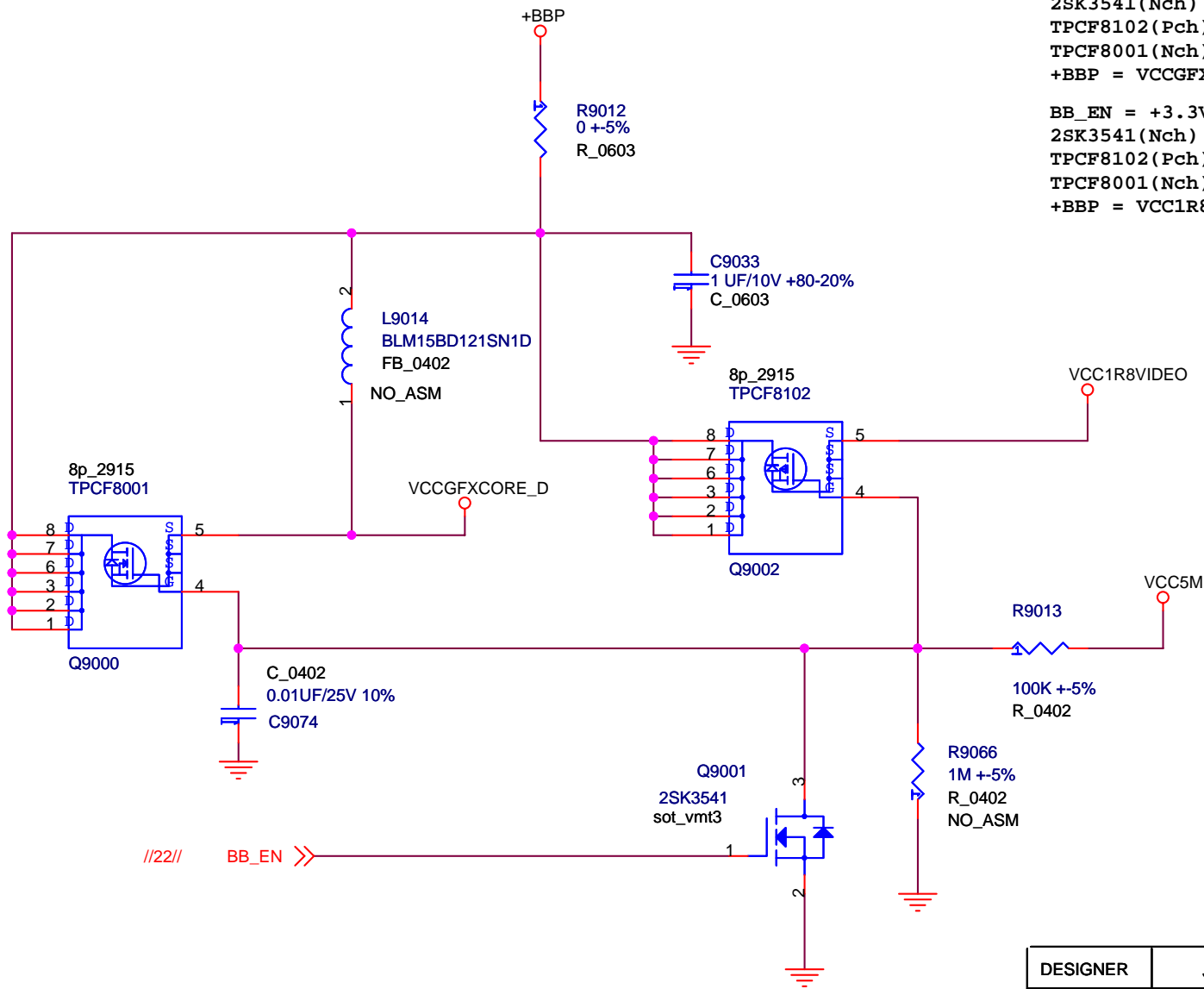


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DESIGNER	JIM SOFIA	<div>lenovo联想</div> <div>Part No . 44C4352</div> <div>EC No . L53251</div> <div>TITLE: Waikiki3-EXT SIT</div> <div>BLANK</div> <div>sheet 25 of 101</div> <div>Tuesday, April 01, 2008</div>
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APPROVED	CHUJO	
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(BOTTEM &amp; LOWER)





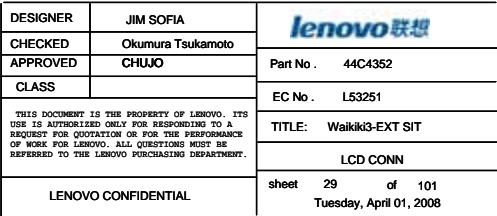
BB\_EN = 0V FOR BACK BIASING DISABLED  
2SK3541(Nch) OFF  
TPCF8102(Pch) OFF  
TPCF8001(Nch) ON  
+BBP = VCCGFXCORE-D

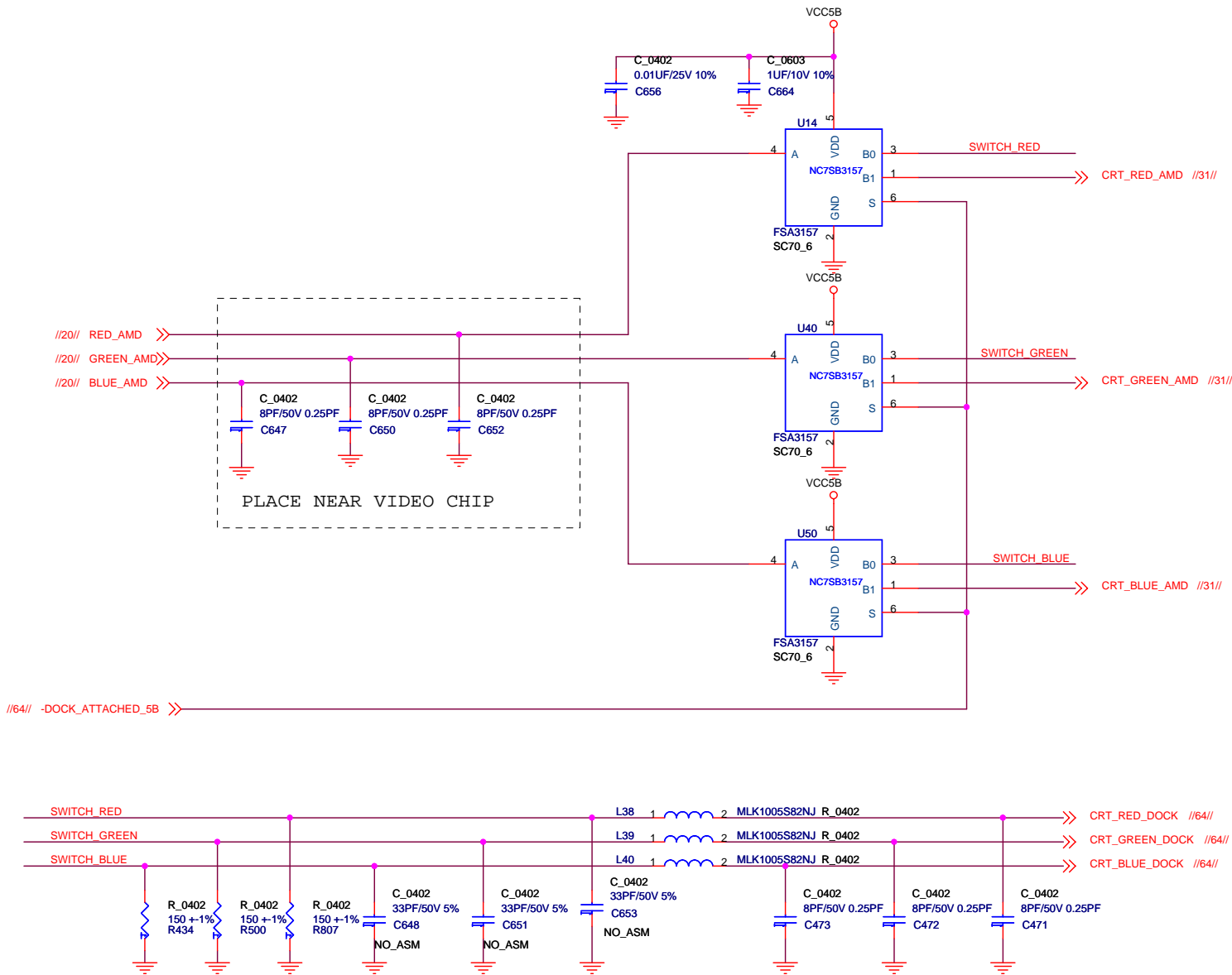
BB\_EN = +3.3V FOR BACK BIASING ENABLED  
2SK3541(Nch) ON  
TPCF8102(Pch) ON  
TPCF8001(Nch) OFF  
+BBP = VCC1R8VIDEO


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		BACK BIAS POWER
LENOVO CONFIDENTIAL		sheet 27 of 101
		Tuesday, April 01, 2008

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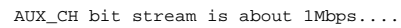
DESIGNER	JIM SOFIA	<div>lenovo联想</div> <div>Part No . 44C4352</div> <div>EC No . L53251</div> <div>TITLE: Waikiki3-EXT SIT</div> <div>BLANK</div> <div>sheet 28 of 101</div> <div>Tuesday, April 01, 2008</div>
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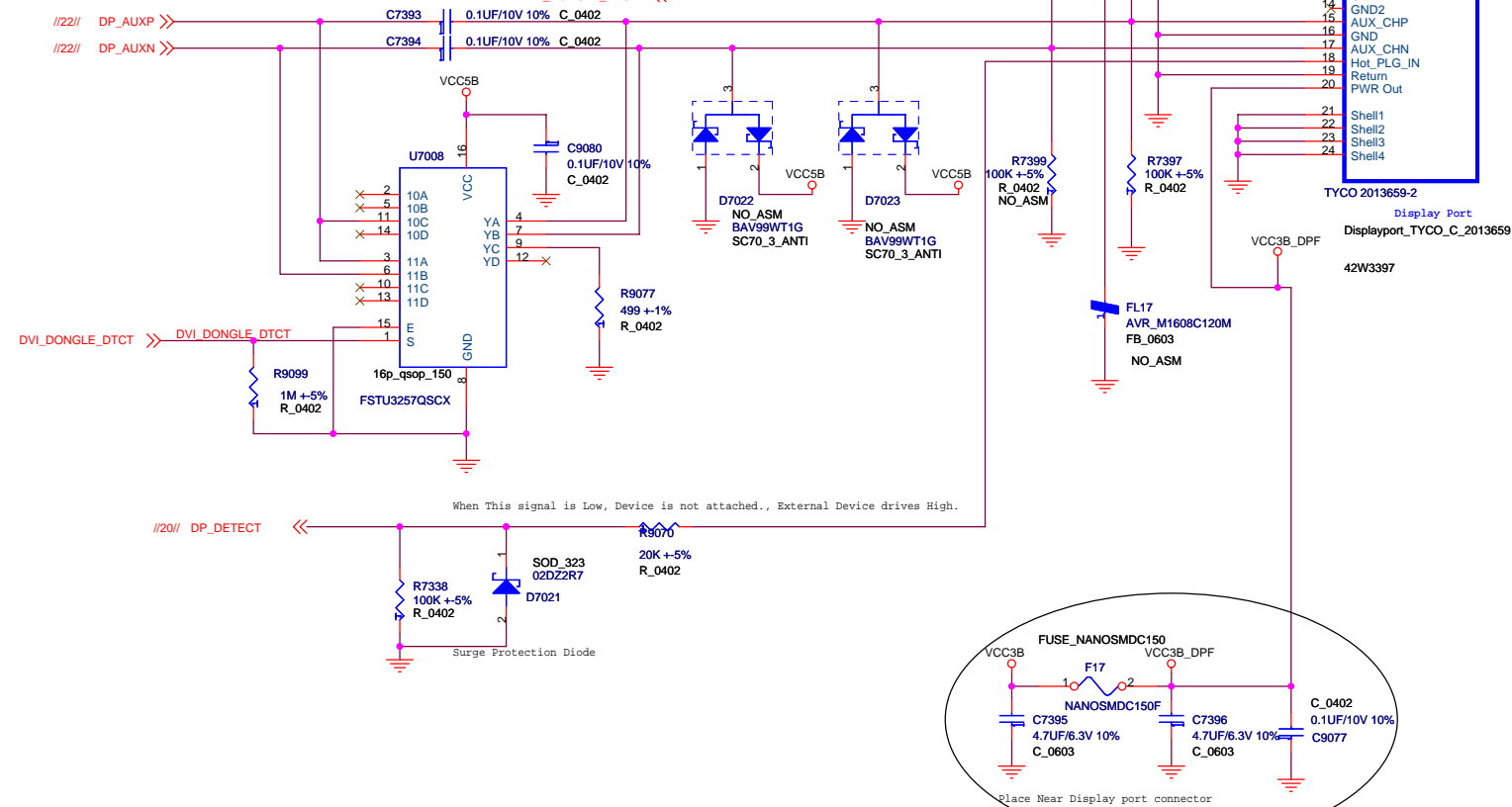



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		RGB SW
LENOVO CONFIDENTIAL		sheet 30 of 101 Tuesday, April 01, 2008



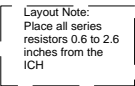



Pins of DP\_AUXP and DP\_AUXN might have internal ESD protection diodes inside GPU.

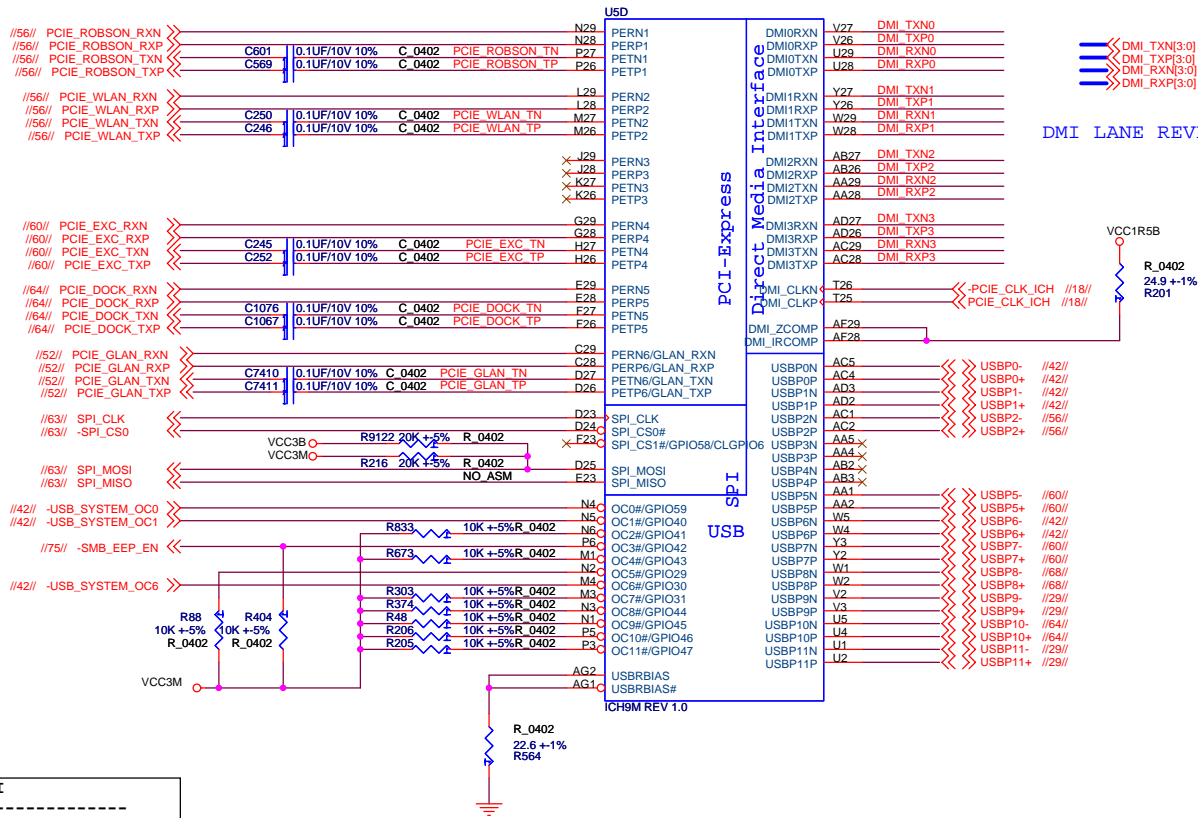


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		<p>EC No. L53251</p>
		<p>TITLE: Waikiki3-EXT SIT</p>
		<p>DISPLAY PORT</p>
LENOVO CONFIDENTIAL		<p>sheet 32 of 101</p> <p>Thursday, April 10, 2008</p>






DESIGNER	JIM SOFIA	
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APPROVED	CHUJO	
CLASS		
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		EC No. L53251
		TITLE: Waikiki3-EXT SIT
		ICH9M-1
LENOVO CONFIDENTIAL		sheet 33 of 101 Tuesday, April 01, 2008

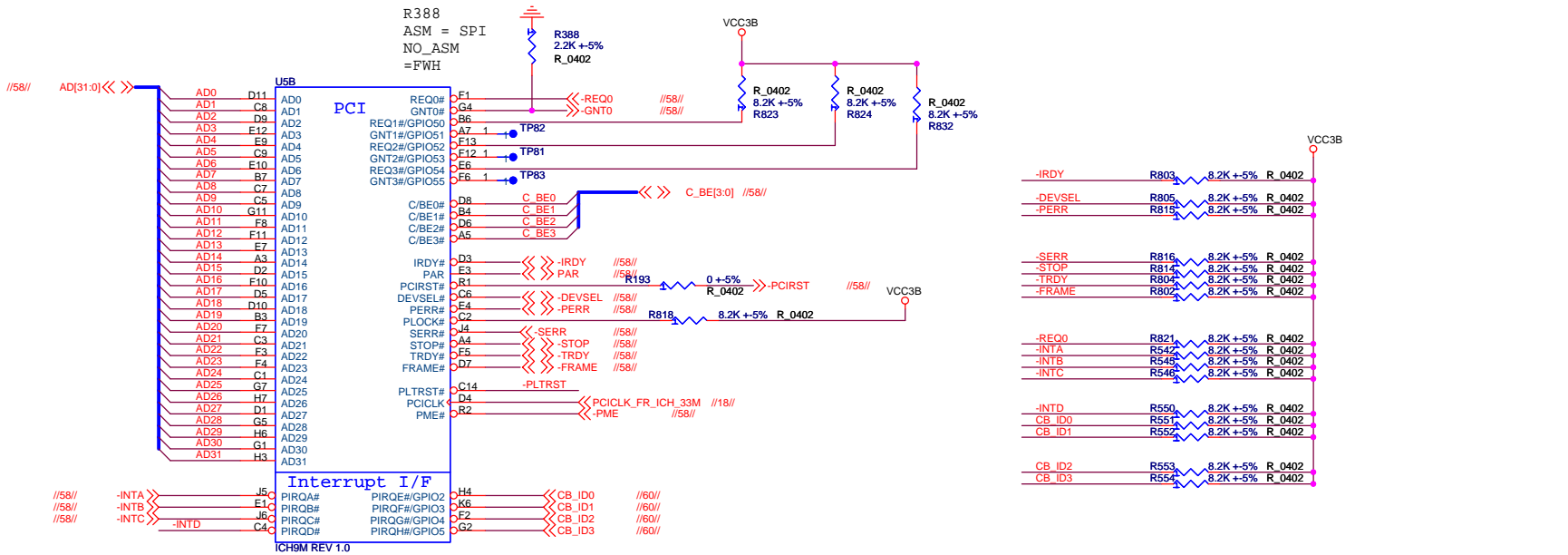


DMI LANE REVERSAL IS NOT APPLIED

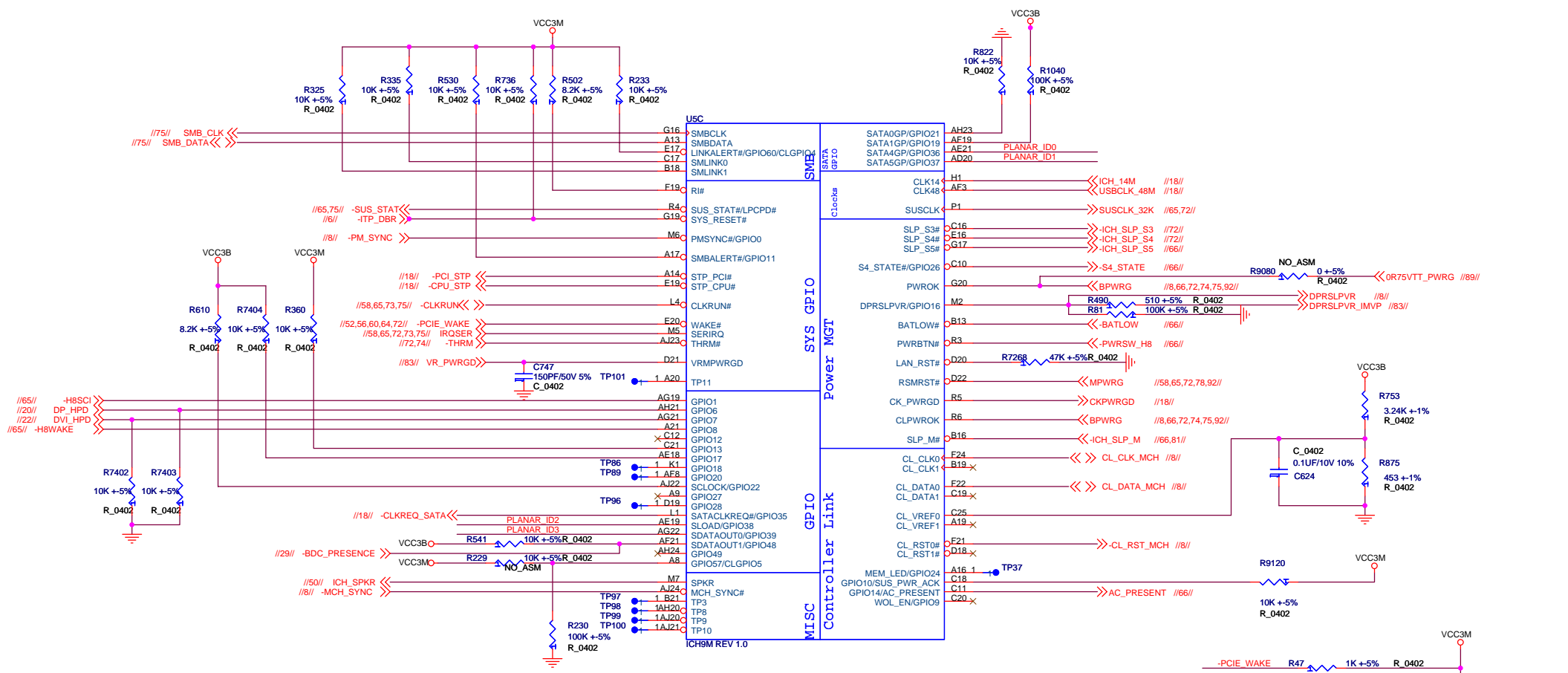
USB Port	
0	: System Port 1
1	: System Port 2
2	: MINICARD Slot (WLAN)
3	: Reserved
4	: Reserved
5	: Smart Card (Cage)
6	: System Port 3
7	: Express Card (Cage)
8	: FPR (TouchPAD CONN)
9	: Bluetooth (LCD CONN)
10	: Docking
11	: USB Camera (LCD CONN)

SPI\_MOSI  
-----  
Pull Up: Enable iTPM  
No Pull Up: Disable iTPM

DESIGNER	JIM SOFIA	 Part No . 44C4352 EC No . L53251 TITLE: Waikiki3-EXT SIT ICH9M-2 sheet 34 of 101 Wednesday, April 23, 2008
CHECKED	Okumura Tsukamoto	
APPROVED	CHUJO	
CLASS		
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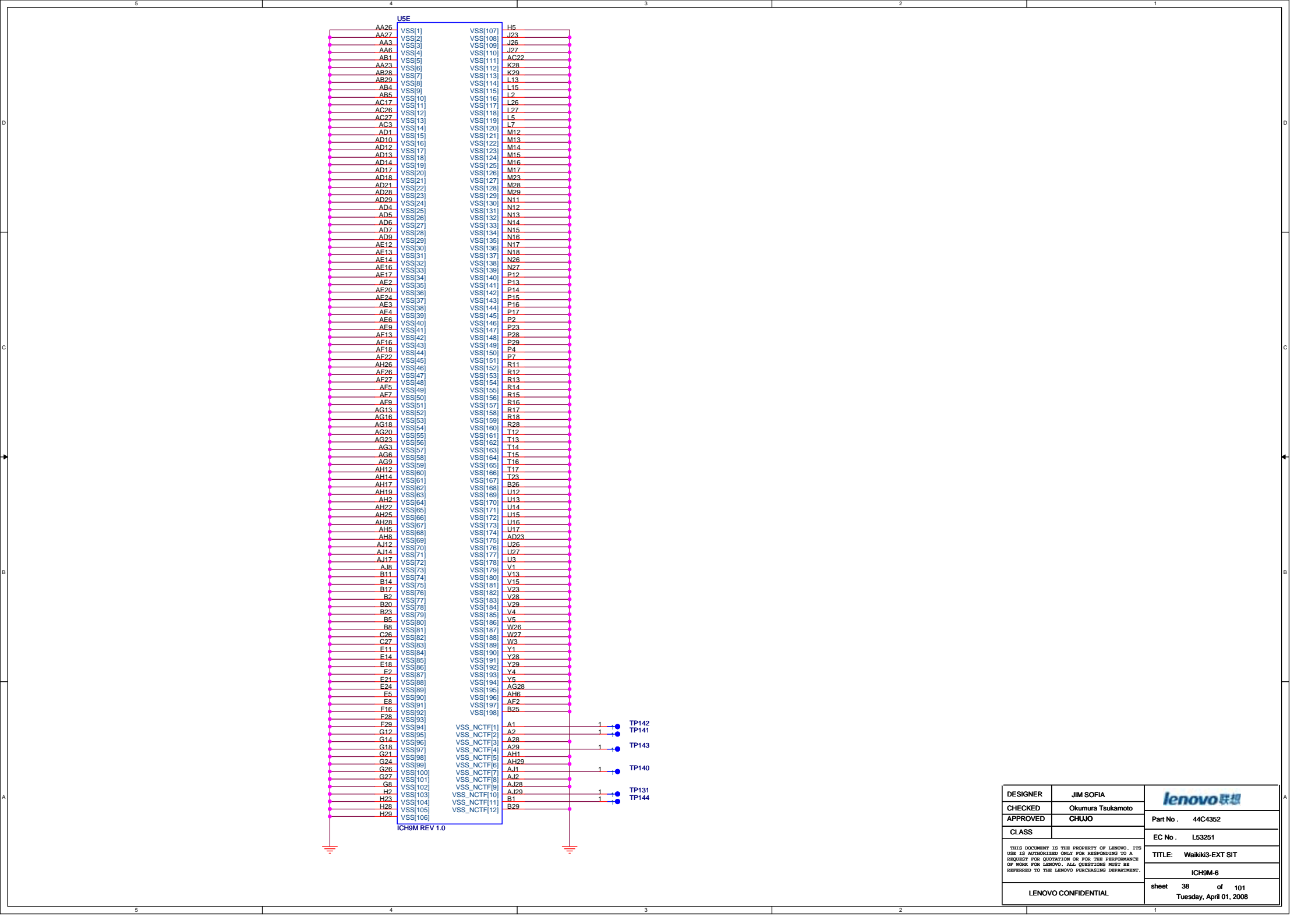
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PULL-DOWN	R346	R347	R113	R114

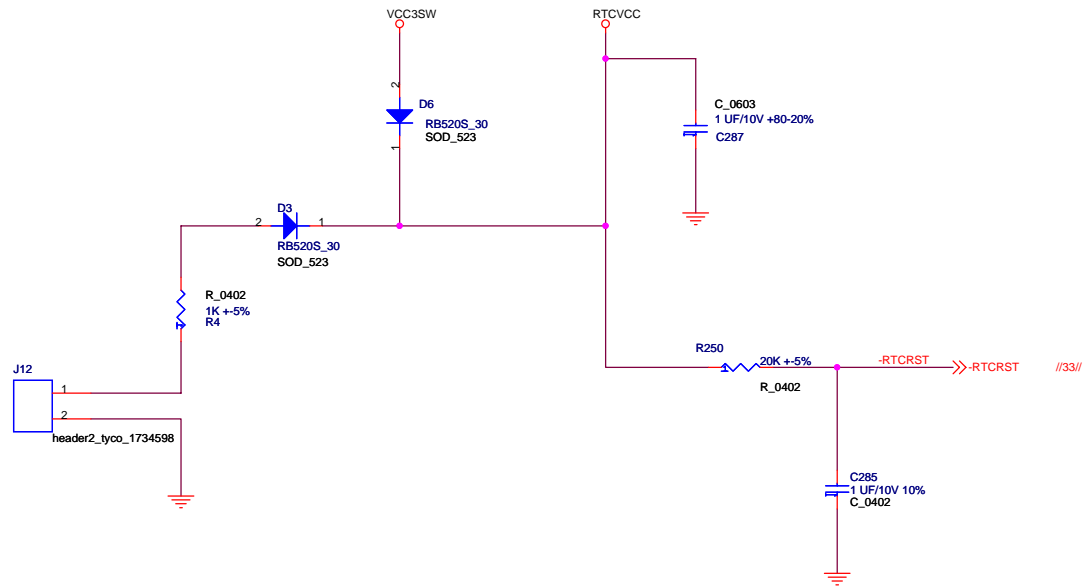
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SIV	0001B
SIT	0010B
SVT	0011B

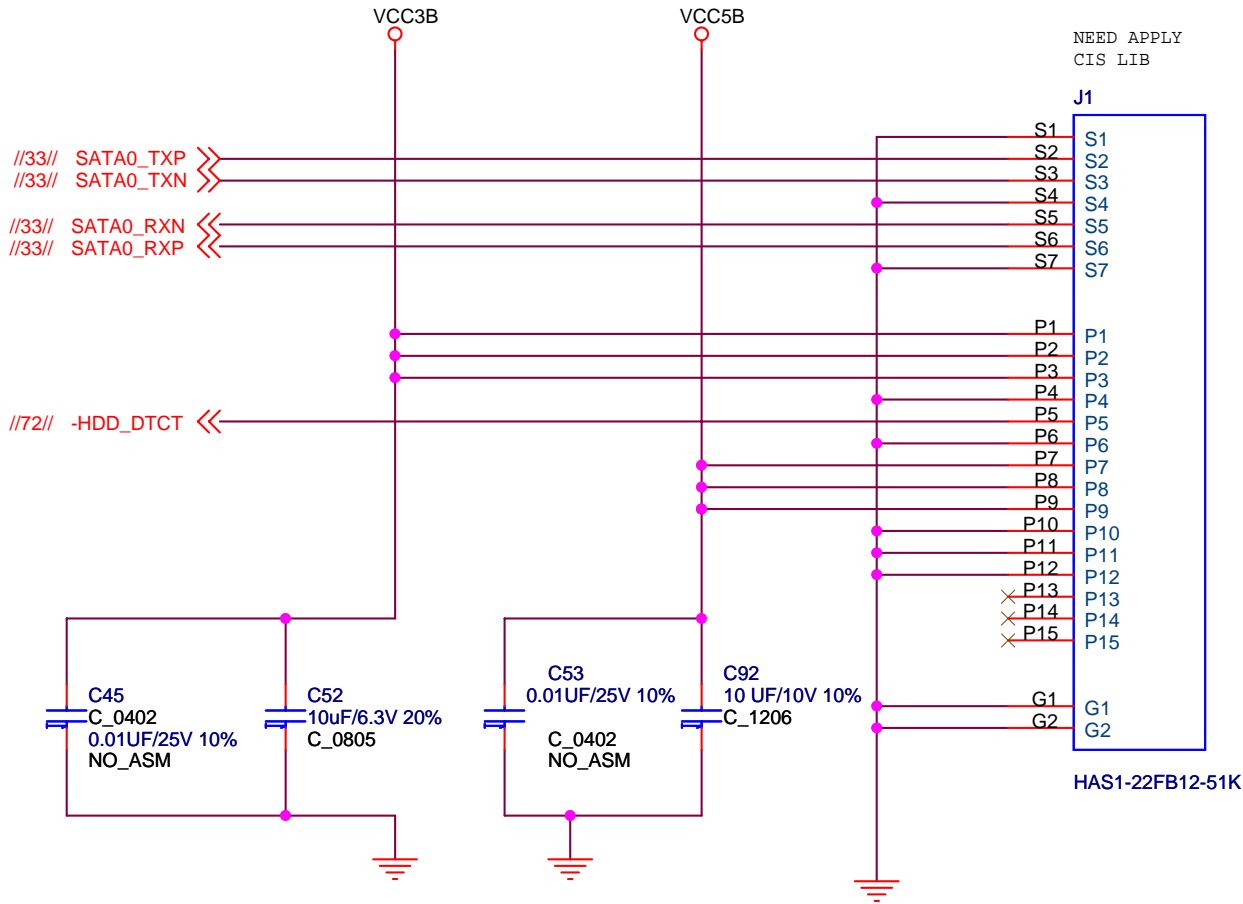





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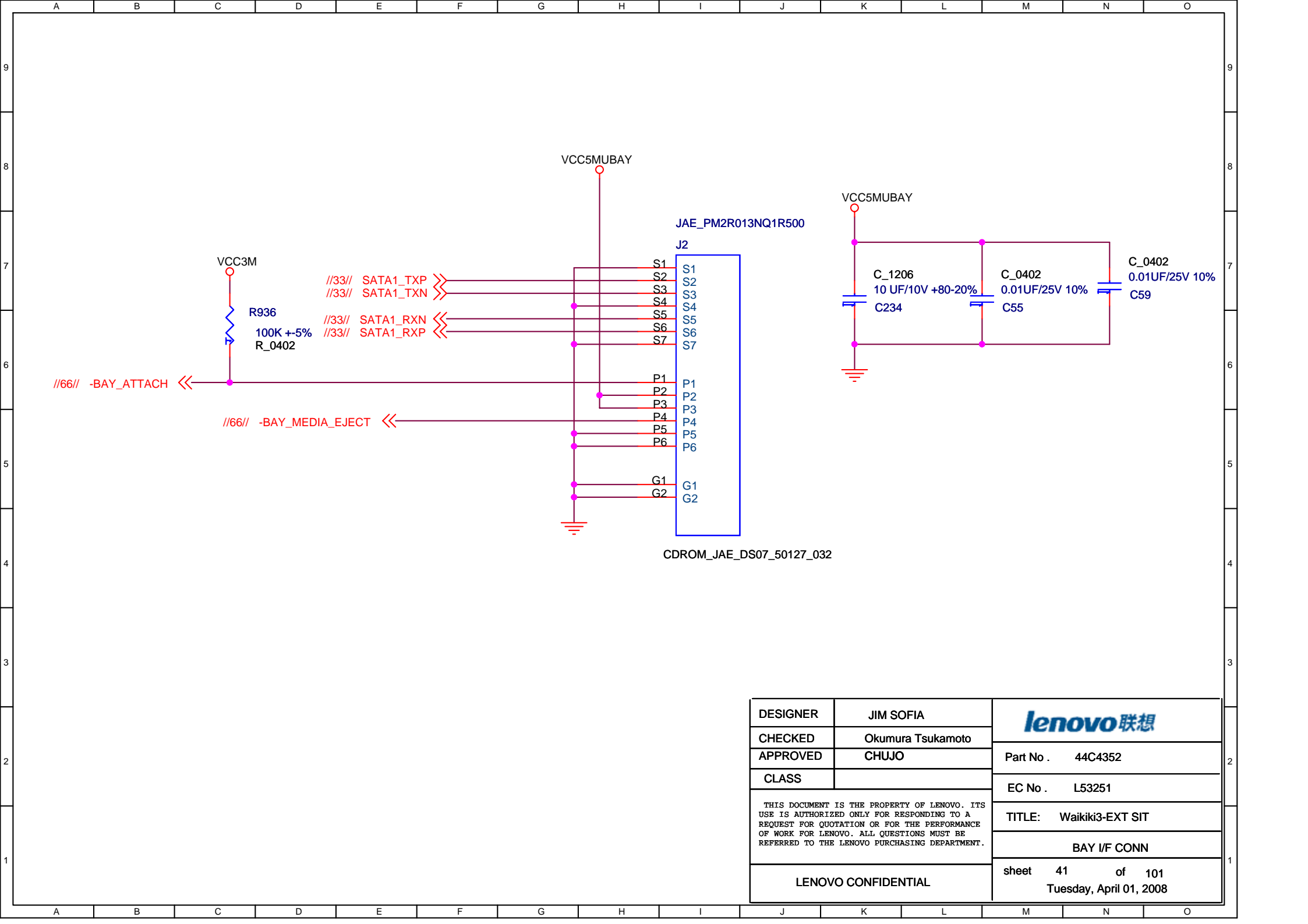


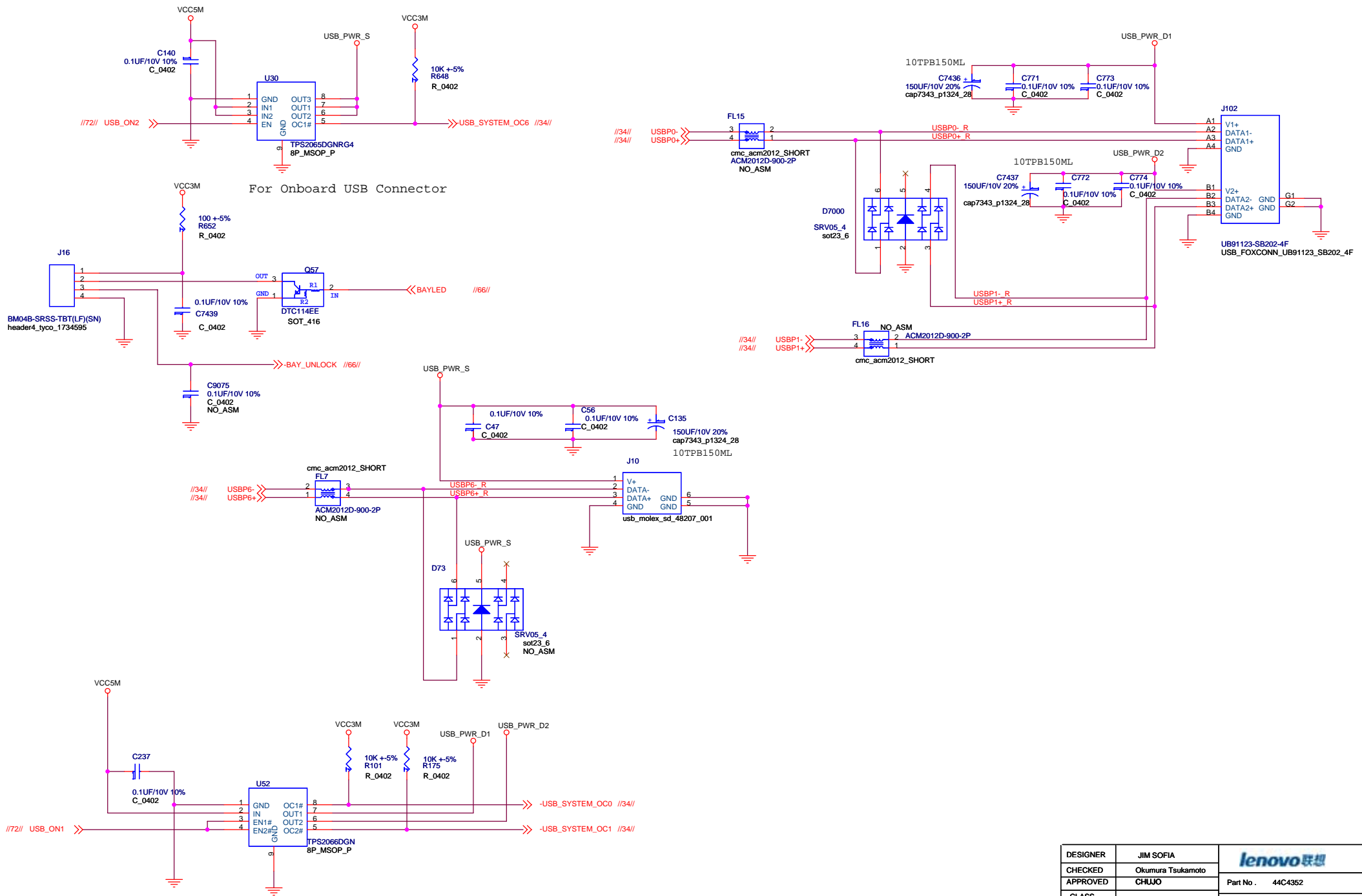
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APPROVED	CHUJO	
CLASS		EC No . L53251
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LENOVO CONFIDENTIAL		RTC BATTERY
		sheet 39 of 101 Tuesday, April 01, 2008




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		SATA HDD CONN
LENOVO CONFIDENTIAL		sheet 40 of 101
		Tuesday, April 01, 2008







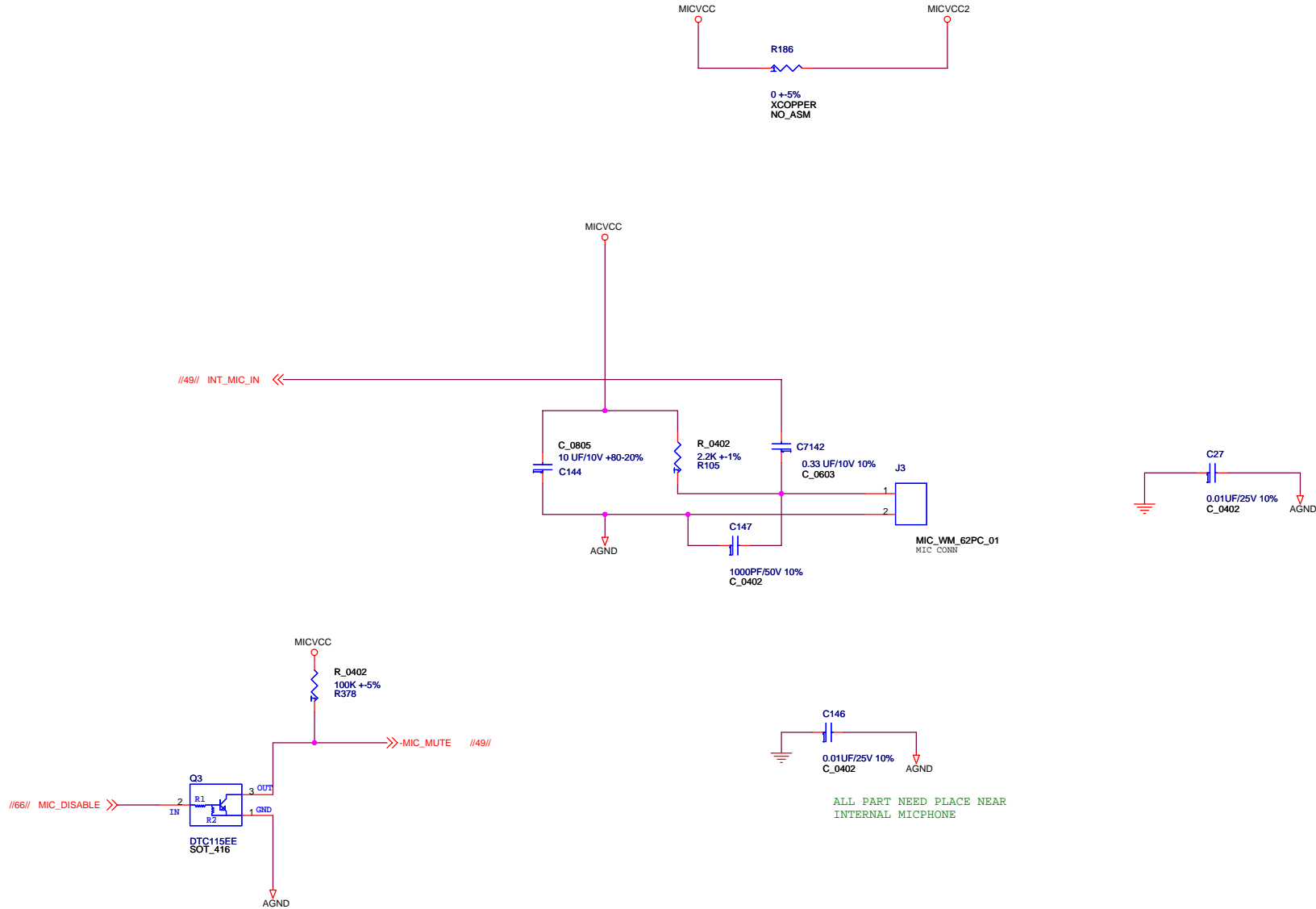
BAY	Swappable	Fixed
Q57	ASM	NO_ASM
R652	ASM	NO_ASM


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CHECKED	Okumura Tsukamoto	
APPROVED	CHUJO	
CLASS		
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		EC No. L53251
		TITLE: Waikiki3-EXT SIT
		USB PWR/CONN
LENOVO CONFIDENTIAL		sheet 42 of 101 Tuesday, April 01, 2008



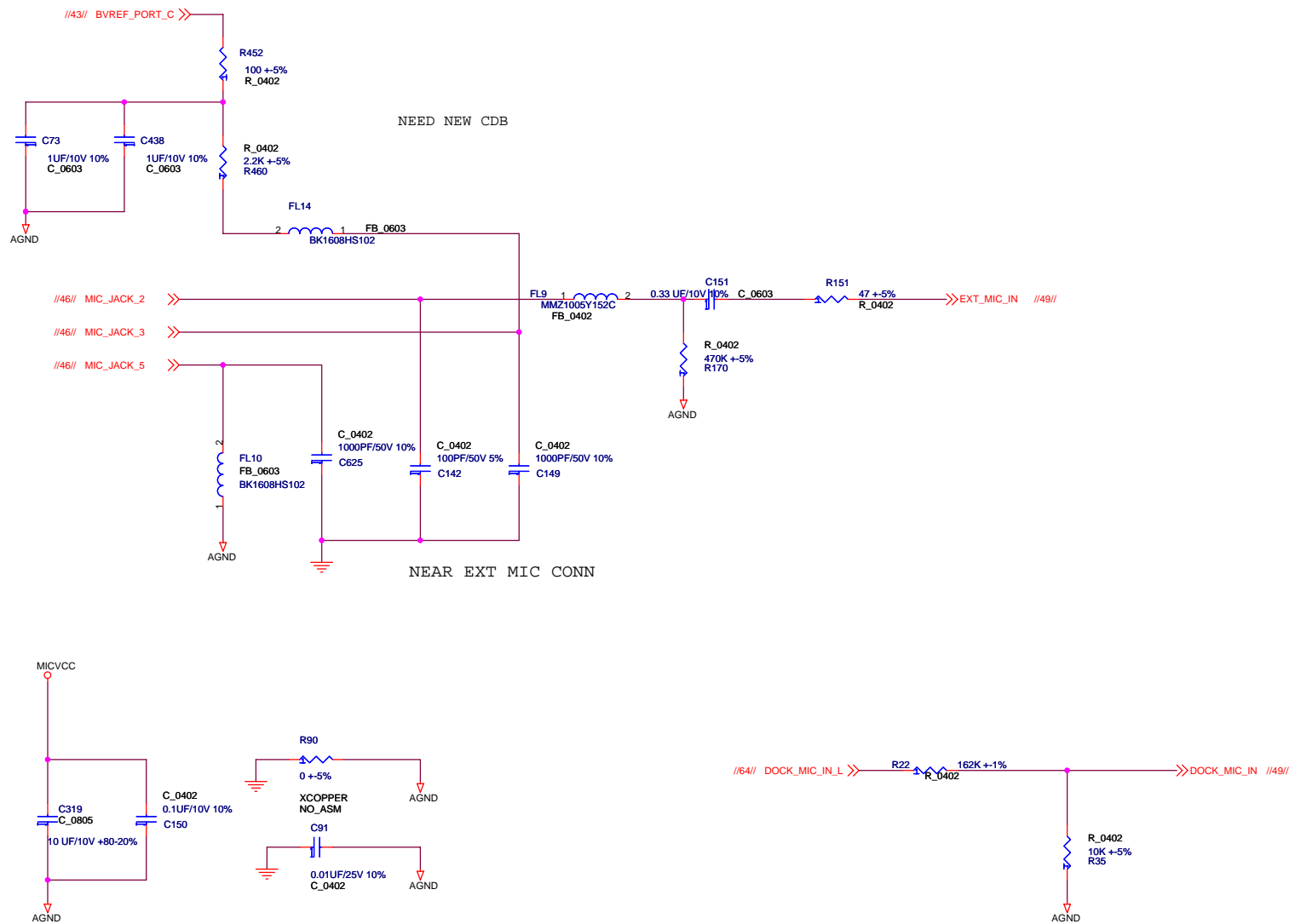
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CHECKED	Okumura Tsukamoto	
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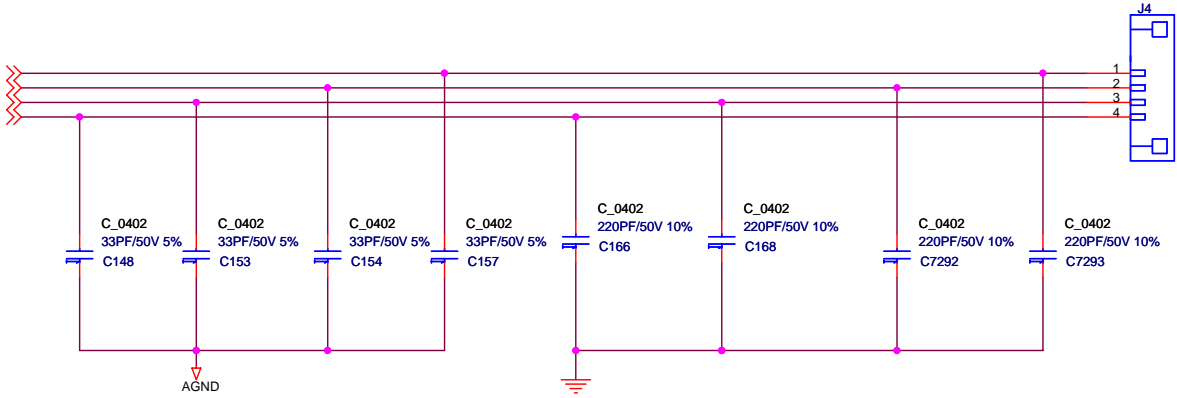
DESIGNER	JIM SOFIA	 Part No . 44C4352 EC No . L53251 TITLE: Waikiki3-EXT SIT AUDIO INT MIC sheet 45 of 101 Tuesday, April 01, 2008
CHECKED	Okumura Tsukamoto	
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CHECKED	Okumura Tsukamoto	
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//49// SP\_OUTR-  
//49// SP\_OUTR+  
//49// SP\_OUTL-  
//49// SP\_OUTL+

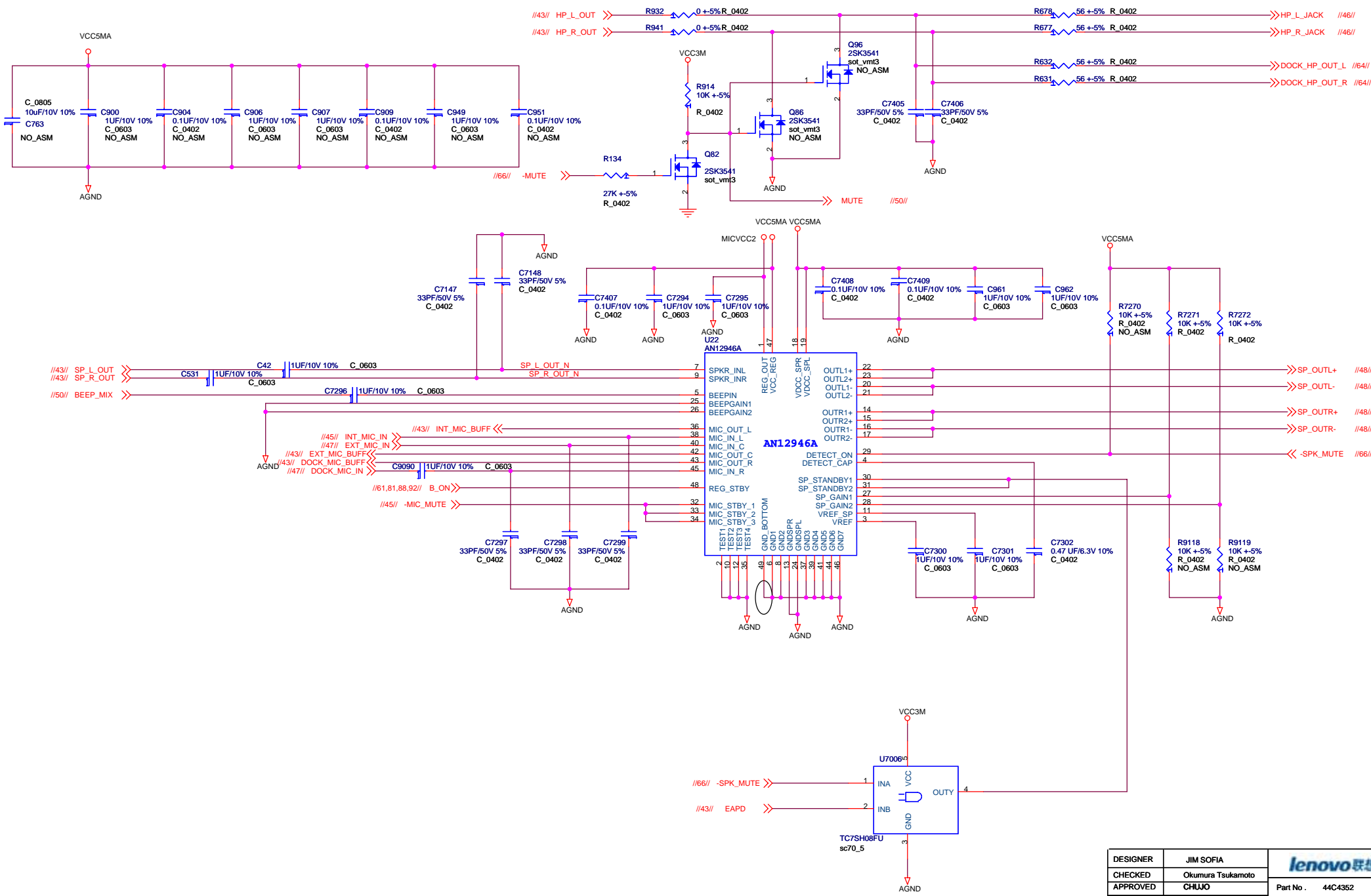



PLACE NEAR SPEAKER AMPLIFIER

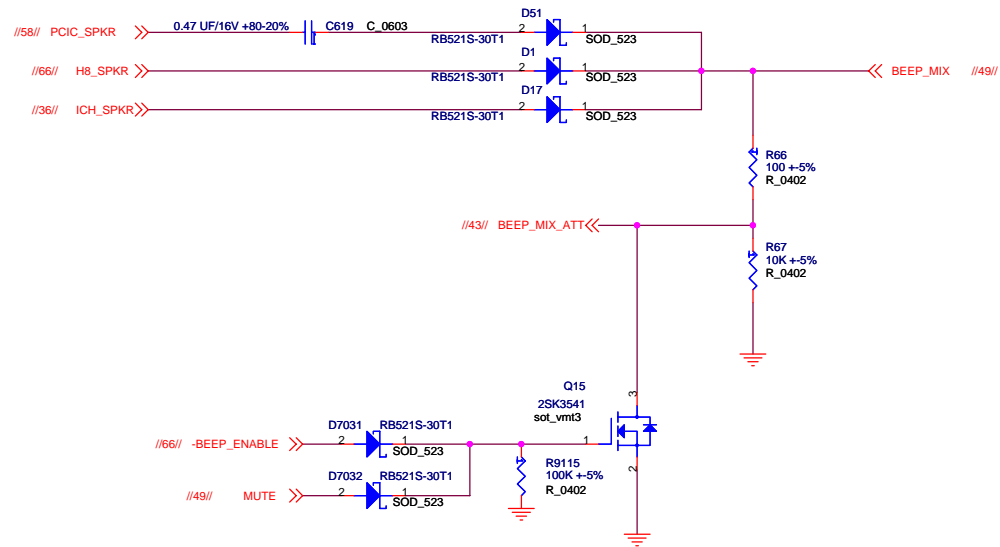
PLACE NEAR SPEAKER CONNECTOR


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		AUDIO SPEAKER
LENOVO CONFIDENTIAL		sheet 48 of 101 Tuesday, April 01, 2008

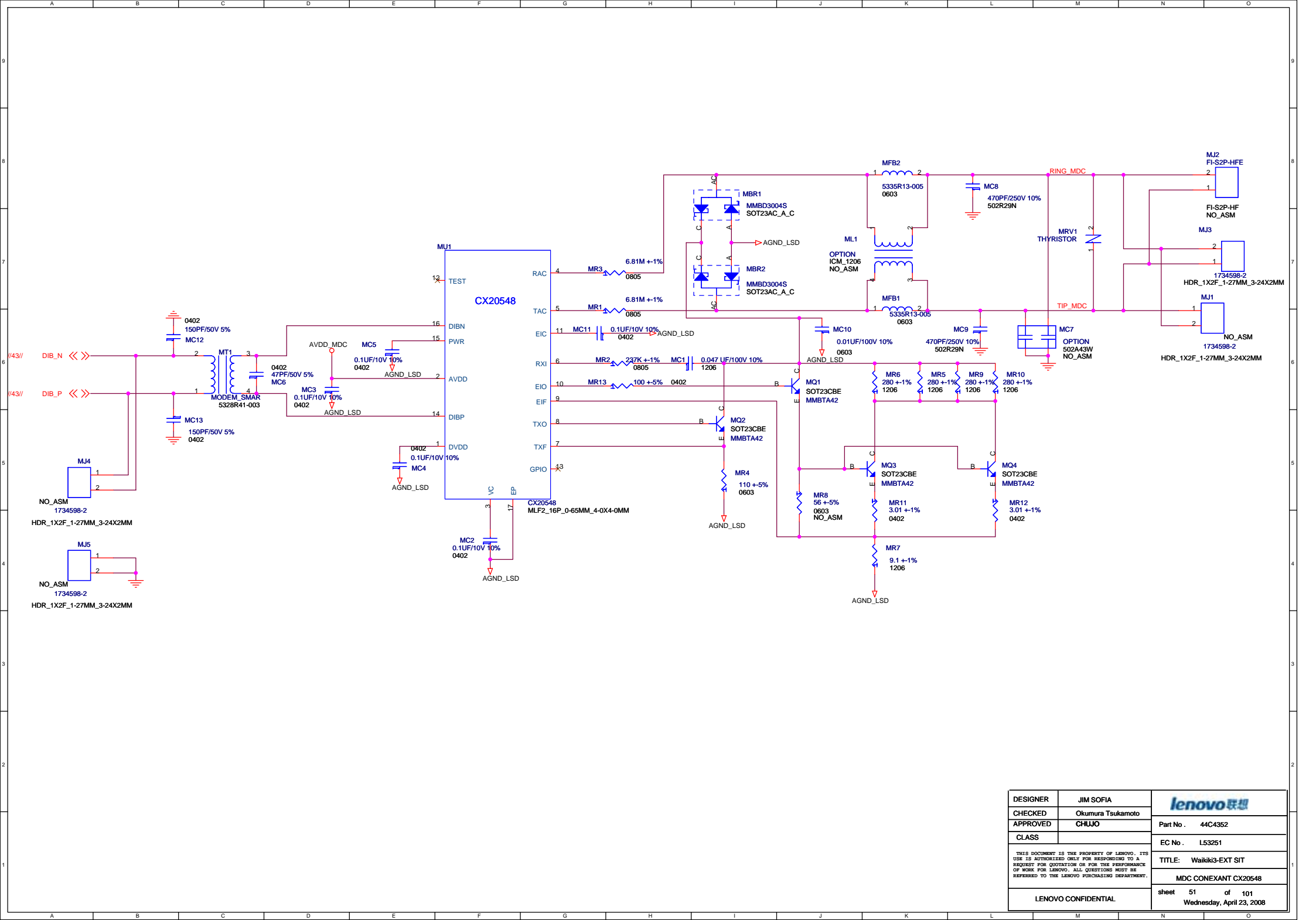





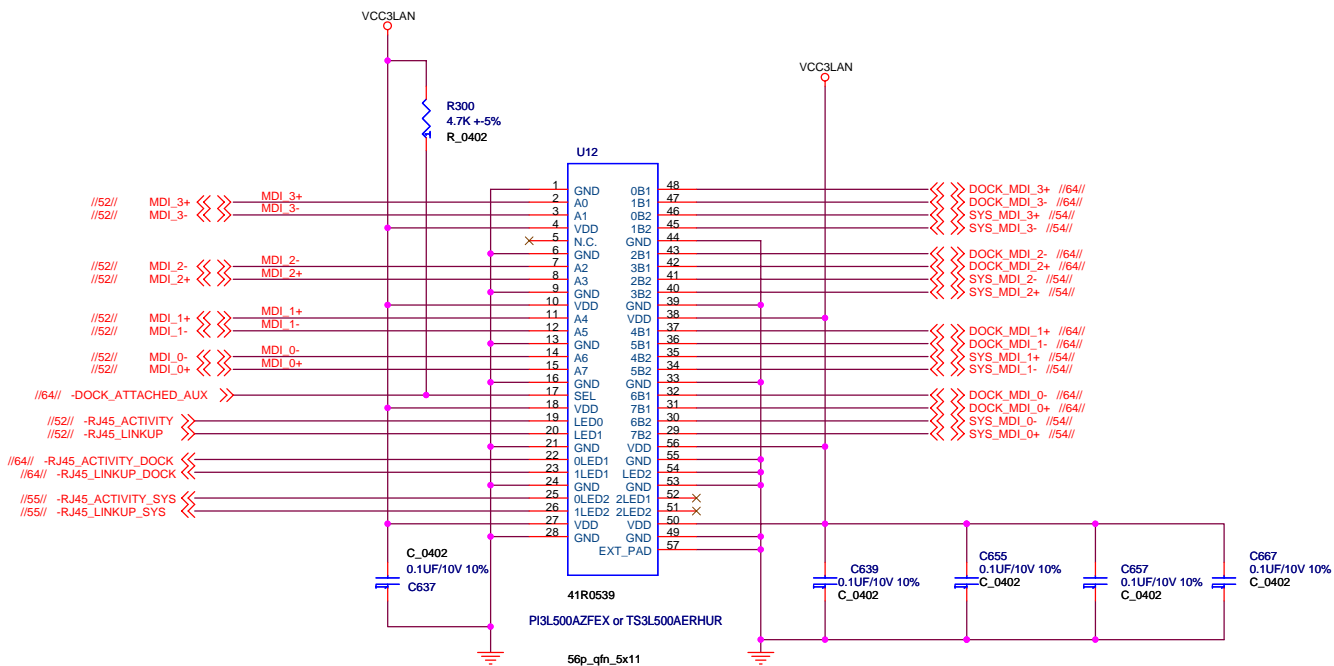
DESIGNER	JIM SOFIA	 Part No. 44C4352  EC No. L53251  TITLE: Waikiki-EXT SIT  AUDIO HDP AMP  sheet 49 of 101 Tuesday, April 01, 2008
CHECKED	Okumura Tsukamoto	
APPROVED	CHUJO	
CLASS		
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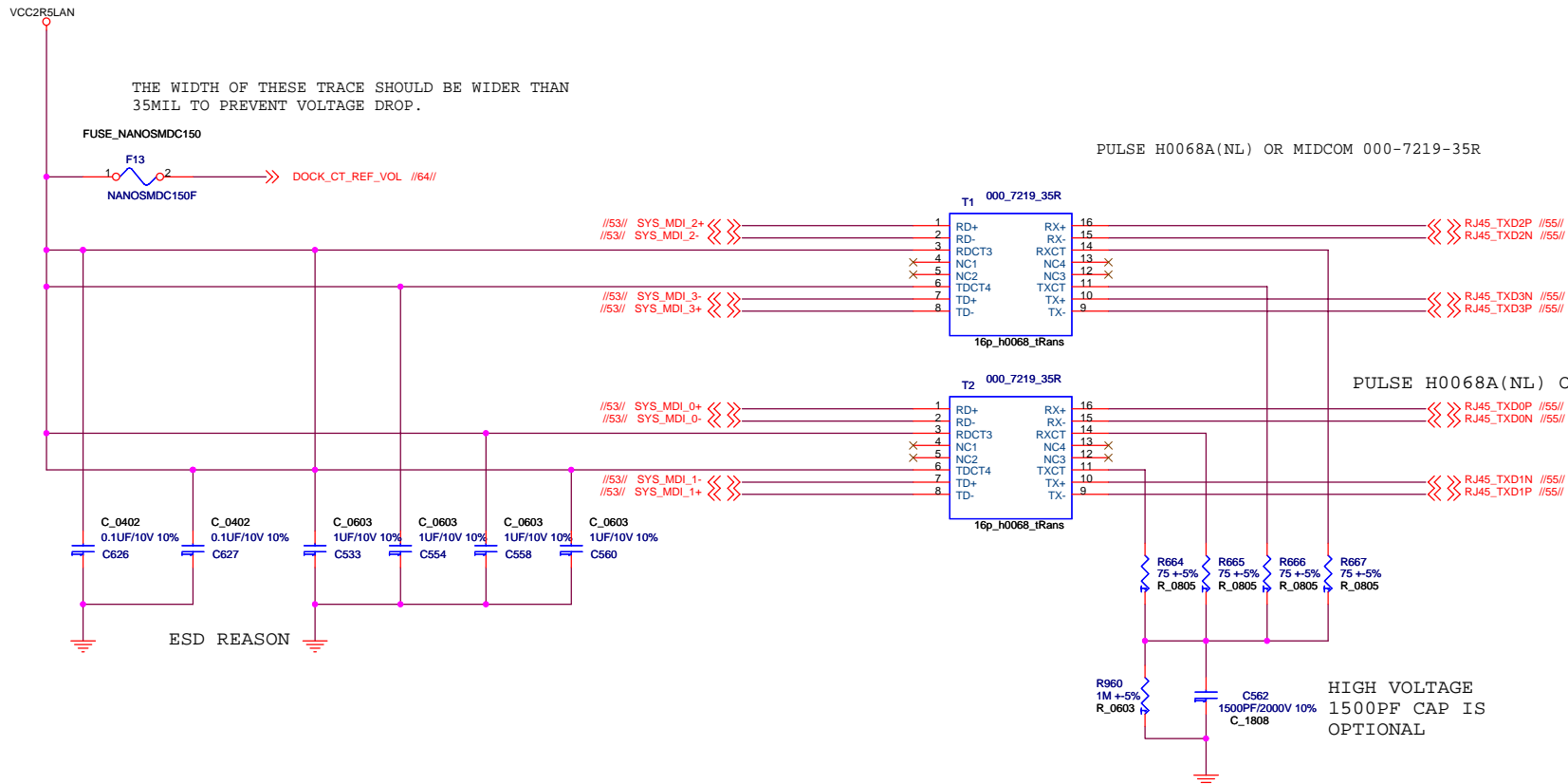
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CHECKED	Okumura Tsukamoto	
APPROVED	CHUJO	
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LENOVO CONFIDENTIAL		AUDIO HDP BEEP
sheet 50 of 101 Tuesday, April 01, 2008		




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CLASS		EC No .	L53251
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LENOVO CONFIDENTIAL		sheet	52 of 101
		Tuesday, April 01, 2008	

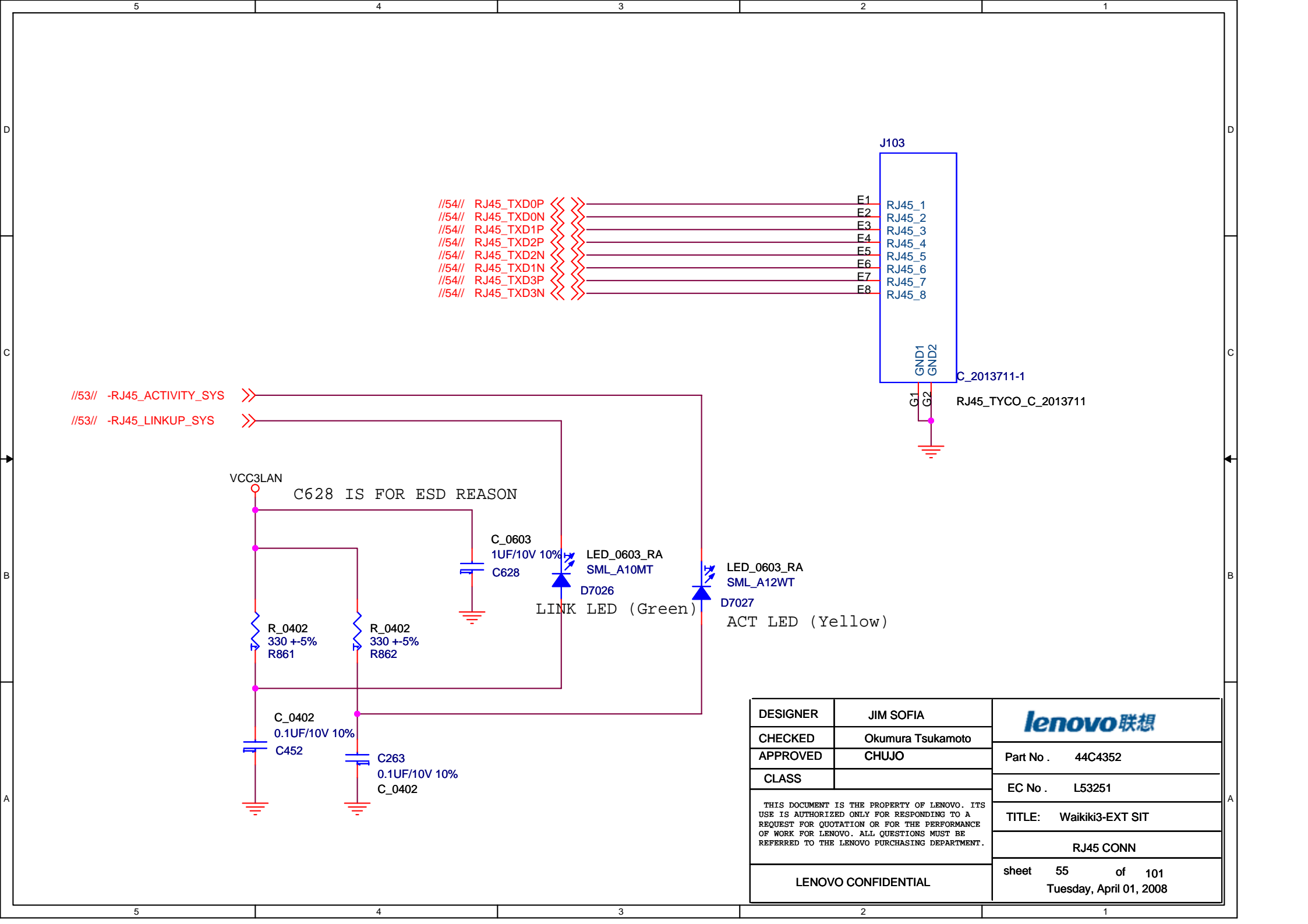



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		EC No. L53251
		TITLE: Waikiki3-EXT SIT
		GBE LAN SW
LENOVO CONFIDENTIAL		sheet 53 of 101 Tuesday, April 01, 2008

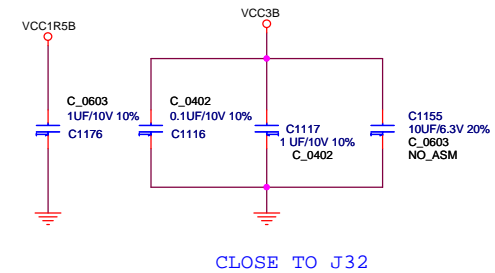
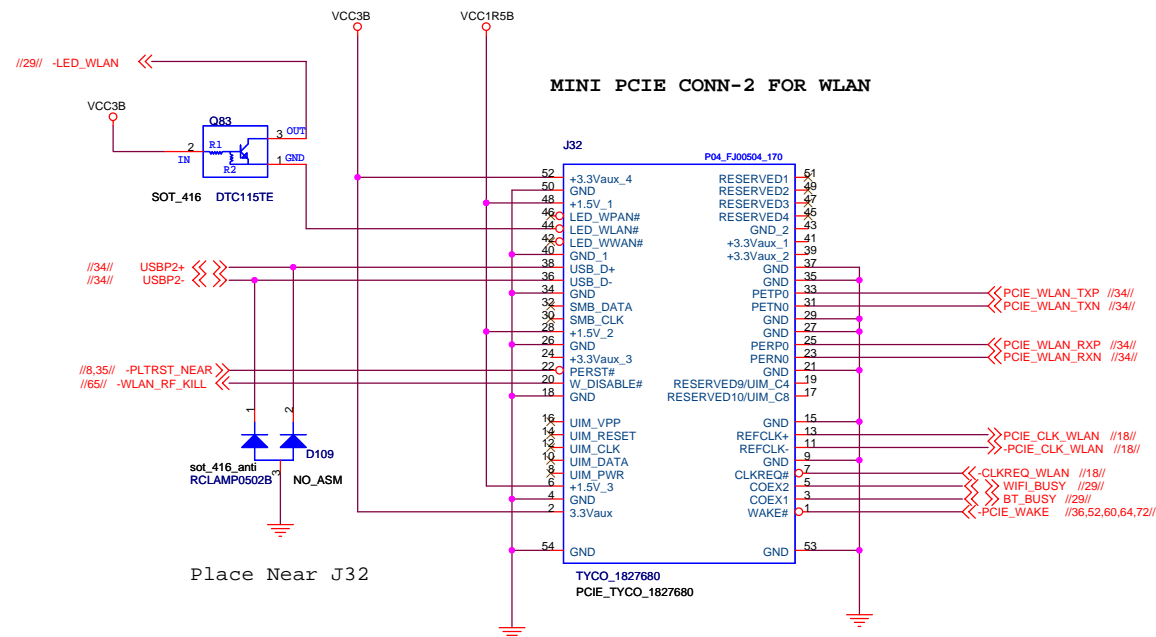
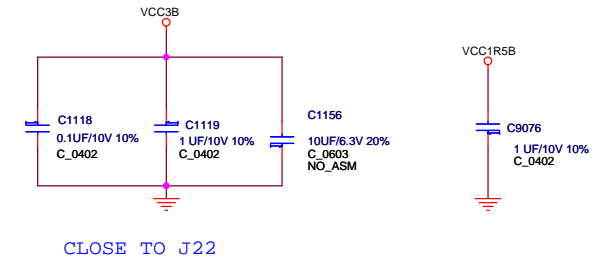
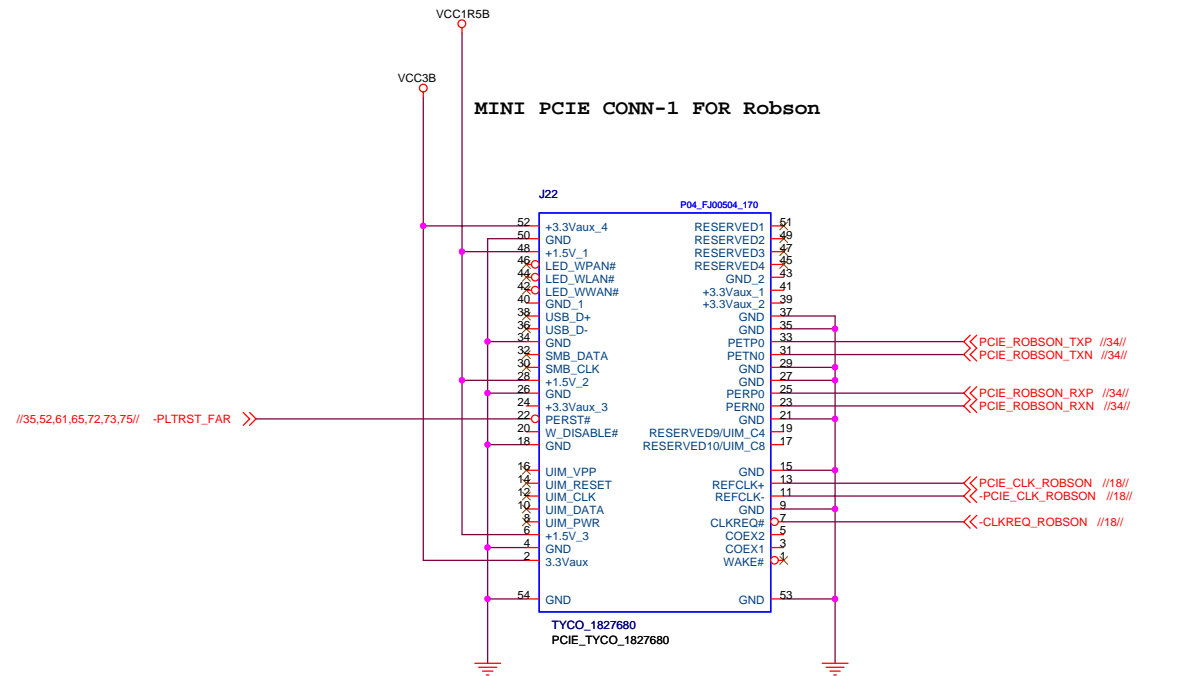


Pattern must be wide and short

DESIGNER	JIM SOFIA	 Part No . 44C4352 EC No . L53251 TITLE: Waikiki3-EXT SIT GBE MAGNATICS sheet 54 of 101 Tuesday, April 01, 2008
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		RJ45 CONN
LENOVO CONFIDENTIAL		sheet 55 of 101
		Tuesday, April 01, 2008



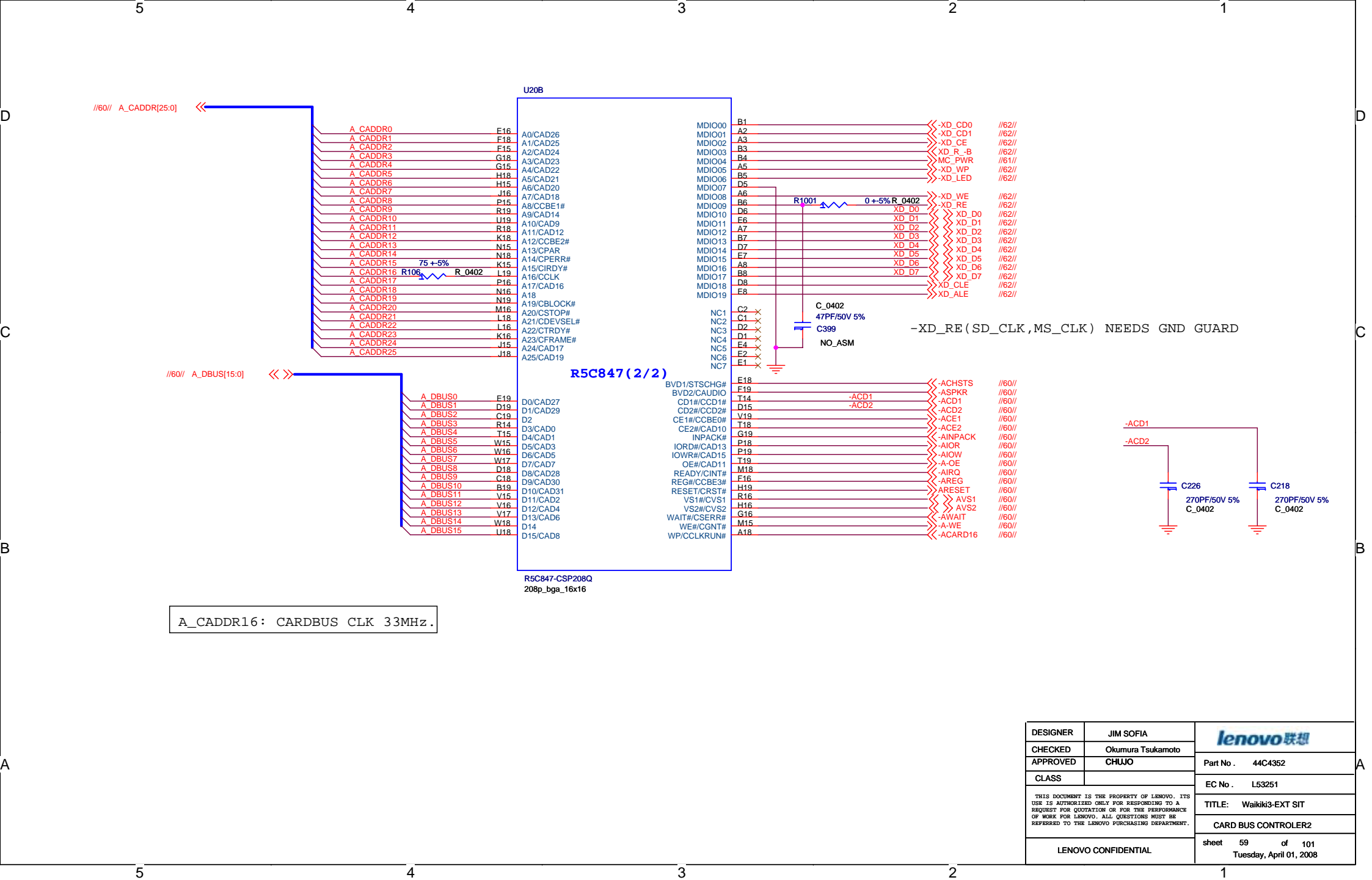
DESIGNER	JIM SOFIA	lenovo 联想
CHECKED	Okumura Tsukamoto	
APPROVED	CHUJO	Part No. 44C4352
CLASS		EC No. L53251
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LENOVO CONFIDENTIAL		MICRO PCIE CONN
		sheet 56 of 101 Tuesday, April 01, 2008




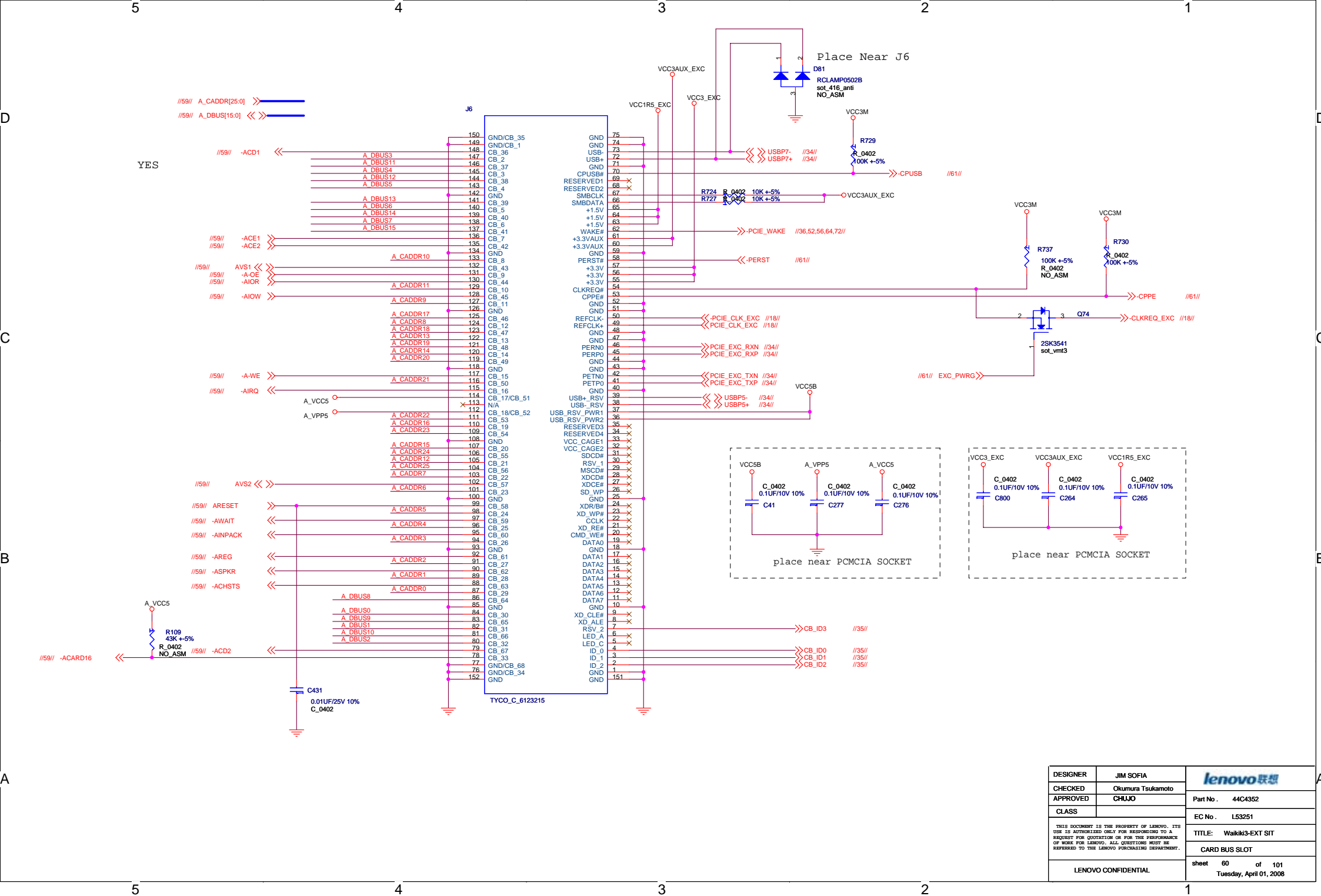
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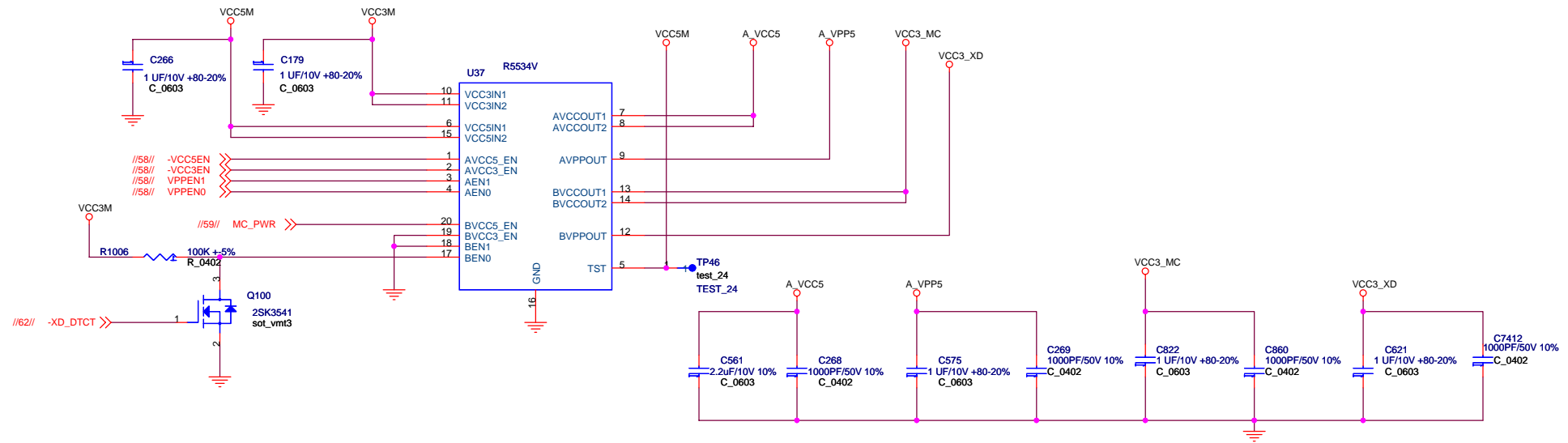
DESIGNER	JIM SOFIA	<div>lenovo联想</div> <div>Part No . 44C4352</div> <div>EC No . L53251</div> <div>TITLE: Waikiki3-EXT SIT</div> <div>BLANK</div> <div>sheet 57 of 101</div> <div>Tuesday, April 01, 2008</div>
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		CARD BUS CONTROLLER2
LENOVO CONFIDENTIAL		sheet 59 of 101 Tuesday, April 01, 2008

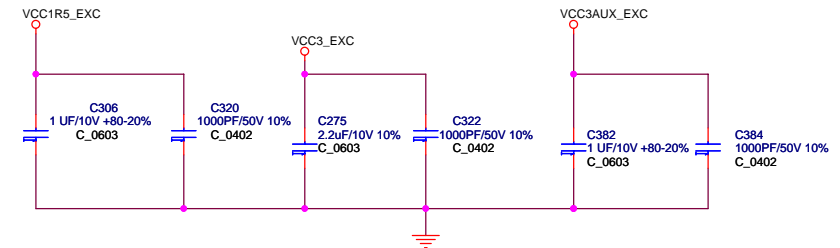





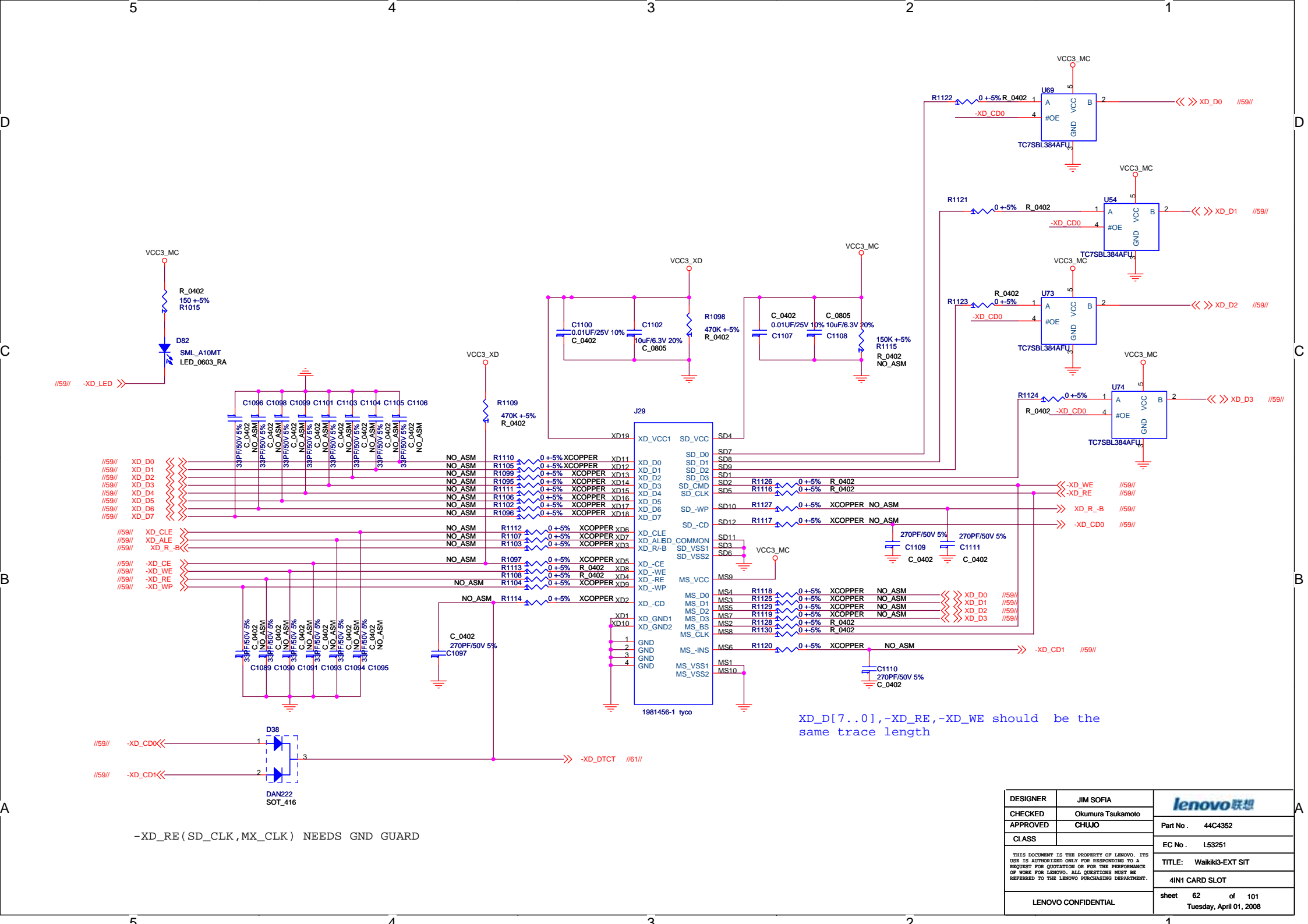
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C860	ASM	NO ASM
C621	ASM	NO ASM
C7412	ASM	NO ASM

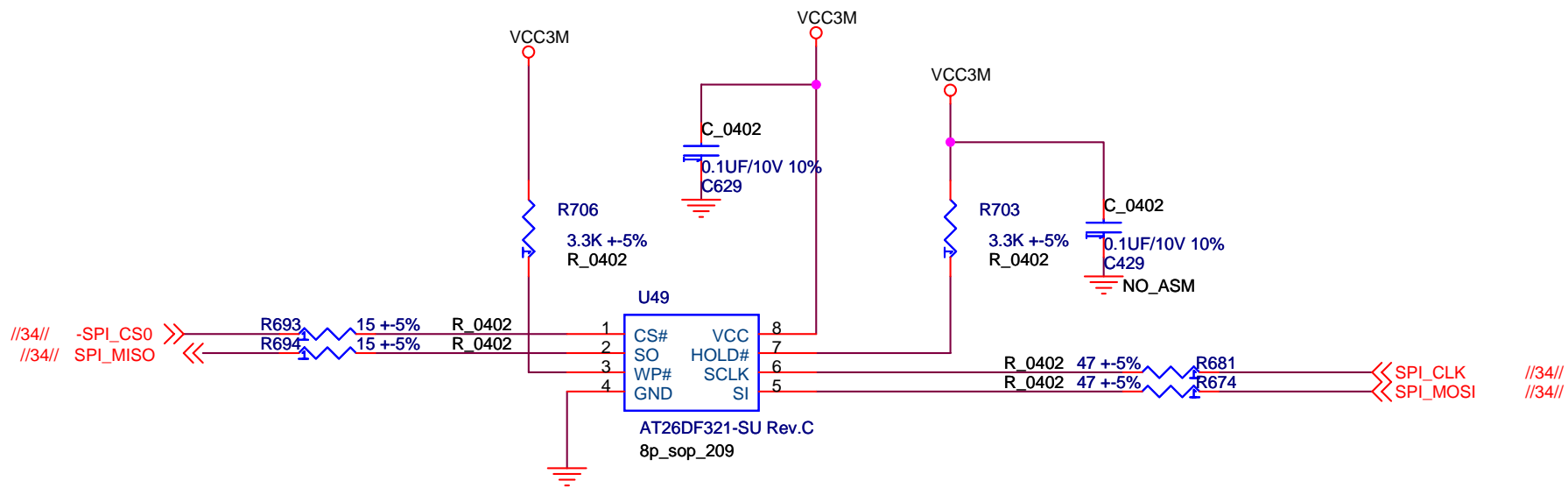
↑  
LOGIC



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LENOVO CONFIDENTIAL		CARD BUS PWR CONTROL
		sheet 61 of 101 Tuesday, April 01, 2008



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LENOVO CONFIDENTIAL		4IN1 CARD SLOT
		sheet 62 of 101 Tuesday, April 01, 2008

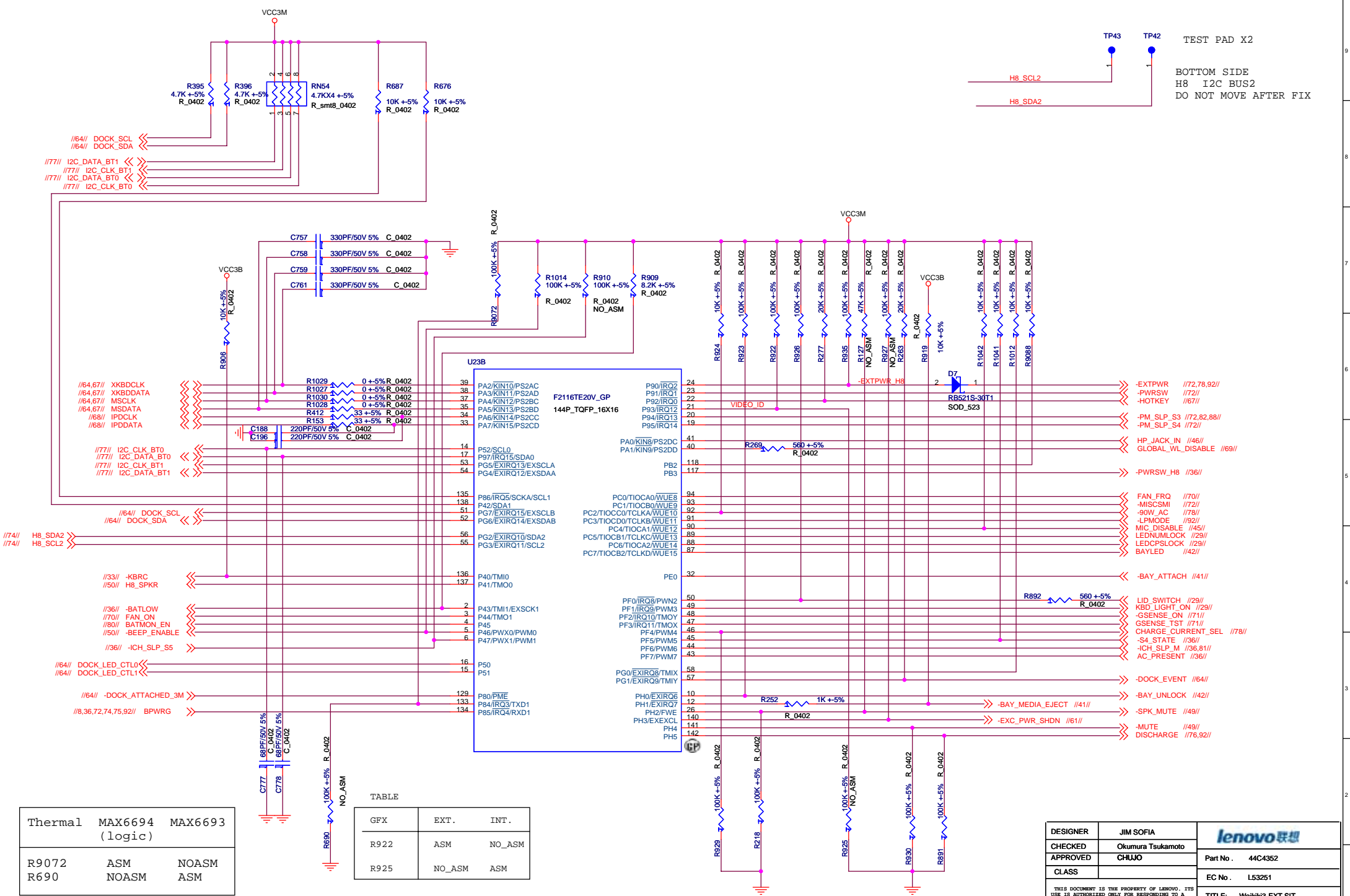


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CHECKED	Okumura Tsukamoto	
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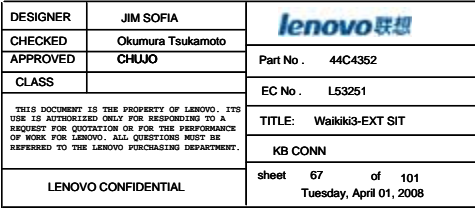


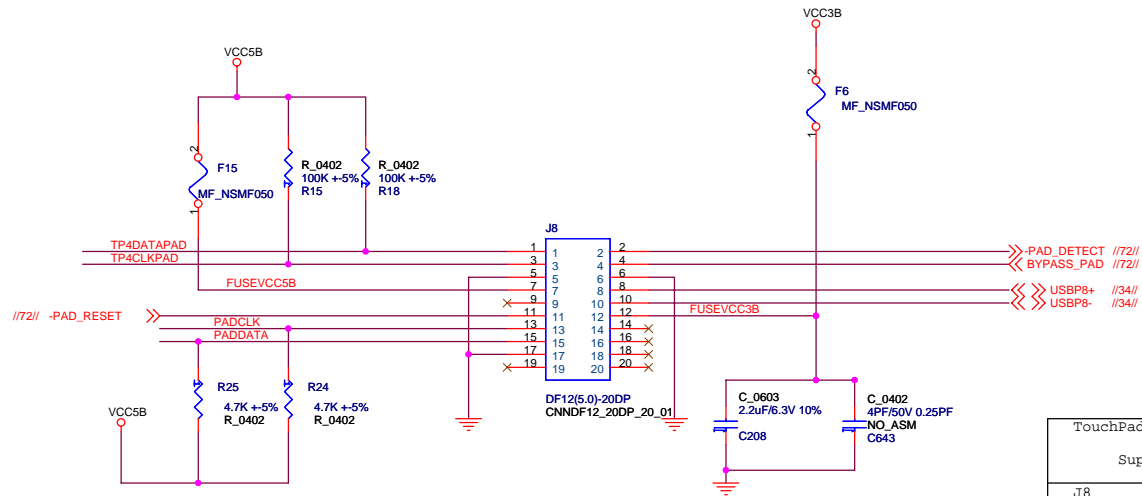


Thermal	MAX6694 (logic)	MAX6693
R9072 R690	ASM NOASM	NOASM ASM

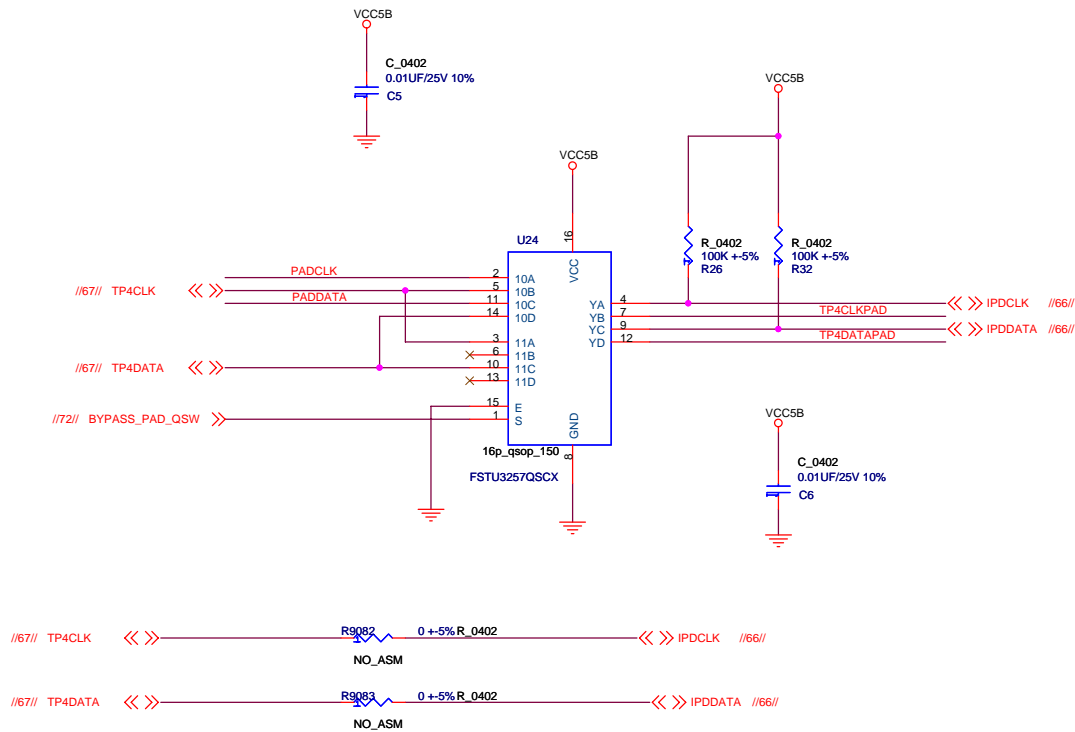
GFX	EXT.	INT.
R922	ASM	NO_ASM
R925	NO_ASM	ASM


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APPROVED	CHUJO		
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		HBS2	
LENOVO CONFIDENTIAL		sheet 66	of 101
		Tuesday, April 01, 2008	

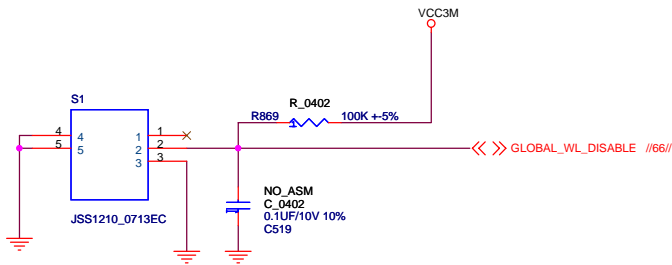





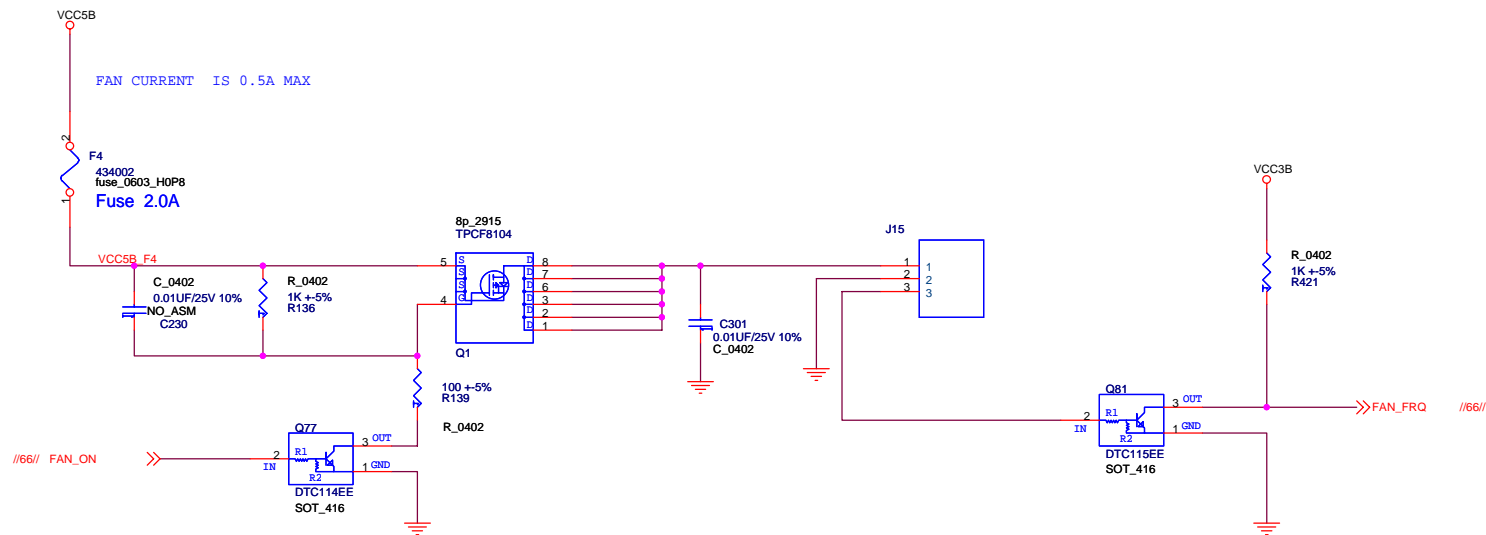
TouchPad / FingerPoint Support		
	Support	Non-support
J8	ASM	NO_ASM
F15	ASM	NO_ASM
F6	ASM	NO_ASM
R15	ASM	NO_ASM
R18	ASM	NO_ASM
R24	ASM	NO_ASM
R25	ASM	NO_ASM
C208	ASM	NO_ASM
C643	NO_ASM	NO_ASM
U24	ASM	NO_ASM
C5	ASM	NO_ASM
C6	ASM	NO_ASM
R26	ASM	ASM
R32	ASM	ASM
R9082	NO_ASM	ASM
R9083	NO_ASM	ASM




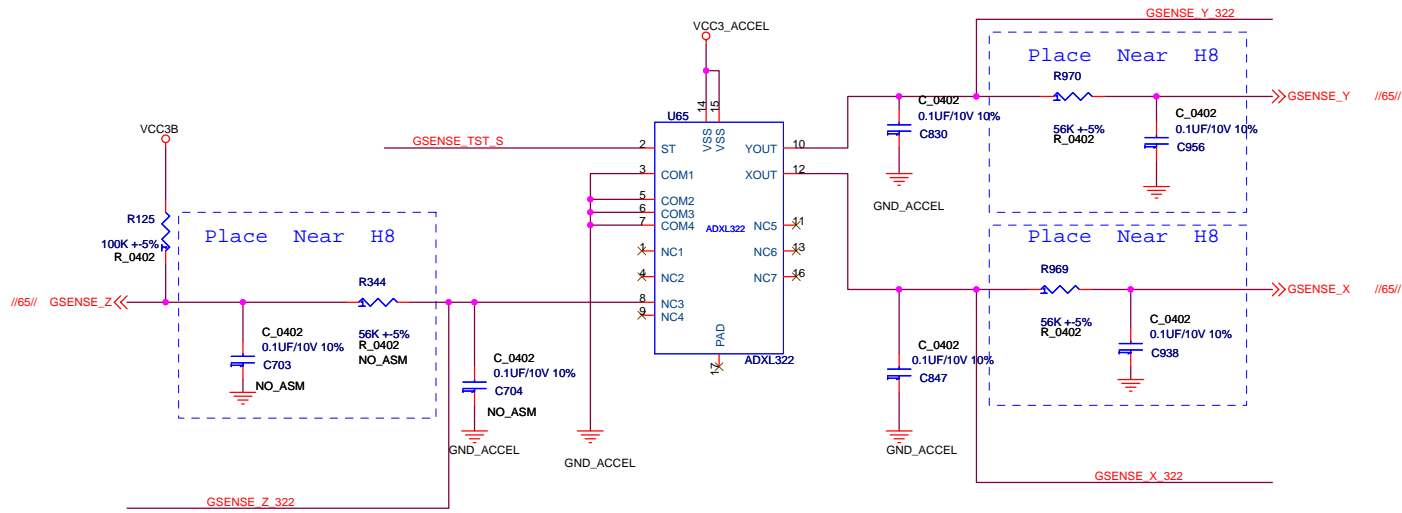
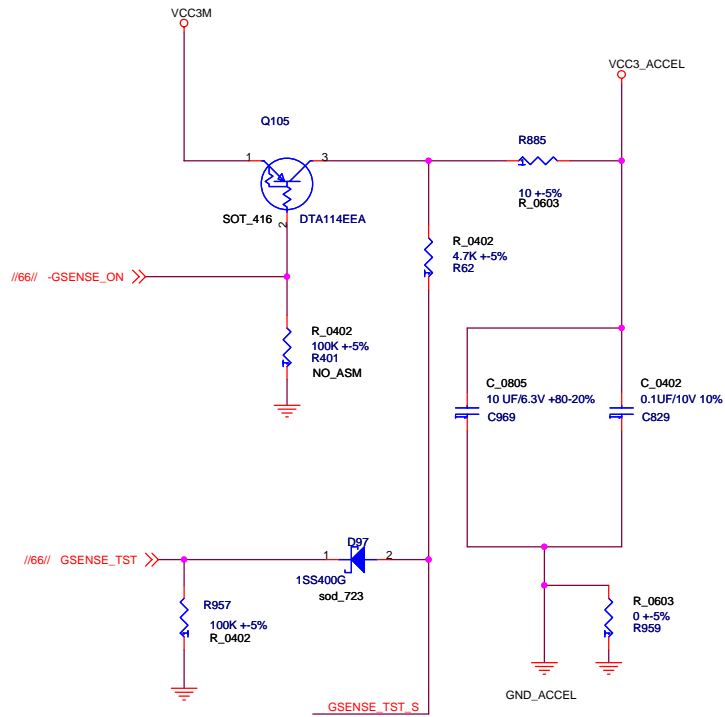
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CHECKED	Okumura Tsukamoto	
APPROVED	CHUJO	
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		EC No. L53251
		TITLE: Waikiki3-EXT SIT
		TP CONN
LENOVO CONFIDENTIAL		sheet 68 of 101 Tuesday, April 01, 2008



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LENOVO CONFIDENTIAL		WIRELESS DISABLE SW
		sheet 69 of 101 Tuesday, April 01, 2008

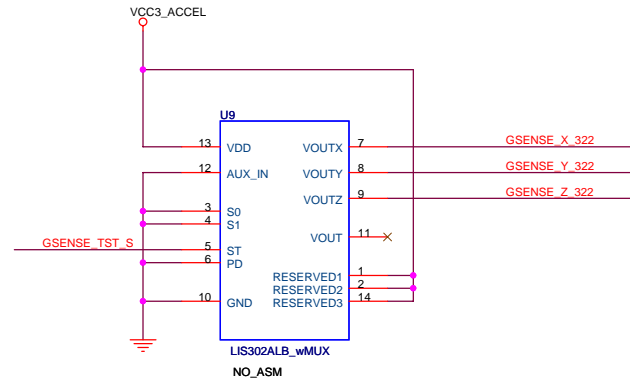


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LENOVO CONFIDENTIAL		FAN CONNECTOR
		sheet 70 of 101 Tuesday, April 01, 2008

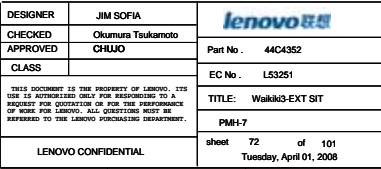


	ADXL322/LIS244AL /LIS34AL	LIS302ALB	NO ACC

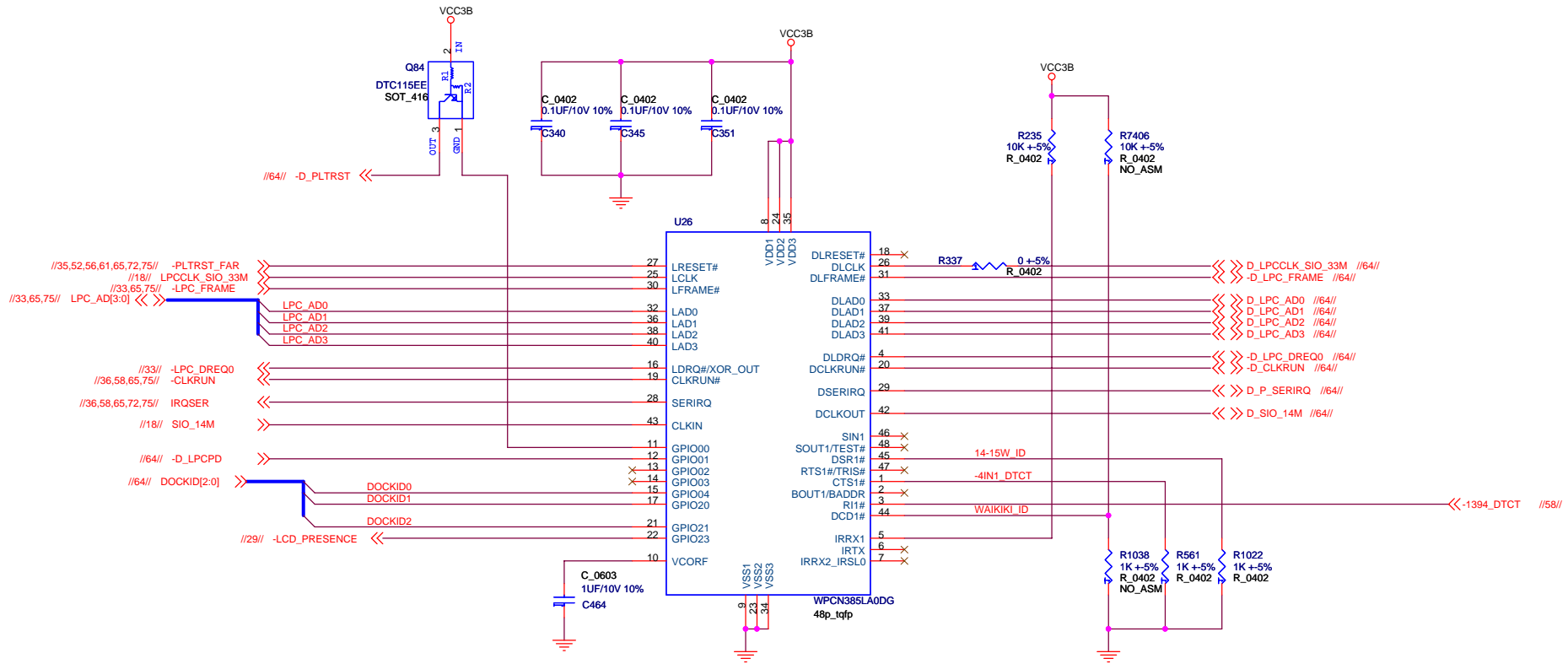
	ADXL322	ST-MICRO	NO ACC
R401 R957	NO_ASM ASM	NO_ASM NO_ASM	ASM ASM
U9 U65	NO_ASM ASM	ASM NO_ASM	NO_ASM NO_ASM
Q105 D97	ASM ASM	ASM ASM	NO_ASM NO_ASM
R62 R885 C829 C969	ASM 10-OHM ASM ASM	ASM ASM ASM ASM	NO_ASM NO_ASM NO_ASM NO_ASM
R959 C830 C847	ASM ASM ASM	ASM ASM ASM	NO_ASM NO_ASM NO_ASM
R969 C938 R970 C956	56K ASM 56K ASM	56K NO_ASM 56K ASM	NO_ASM NO_ASM NO_ASM NO_ASM
C704 R344 C703	NO_ASM NO_ASM NO_ASM	ASM ASM ASM	NO_ASM NO_ASM NO_ASM
R125	ASM	NO_ASM	ASM



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CLASS		EC No . L53251
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LENOVO CONFIDENTIAL		G-SENSOR
		sheet 71 of 101 Tuesday, April 01, 2008







#### GPIO Port assignment List

GPIO10(PIN3): 1394 detection  
GPIO11(PIN4): 4-in-1 slot detection  
GPIO12(PIN48):Reserved  
GPIO13(PIN47):Reserved  
GPIO14(PIN46):Legacy I/O detection(Waikiki not used)  
GPIO15(PIN45): 14"/15" ID  
GPIO16(PIN44):Waikiki ID,should be High  
GPIO17(PIN7): Reserved  
All of GPIO must have internal pull up function

GPIO ASSIGNMENT LIST  
GPIO00: LPC RESET# FOR DOCKING LPC DEVICE  
GPIO01: LPC POWER DOWN FOR DOCKING LPC DEVICE  
GPIO02: RESERVED (INTERNAL PULLUP ENABLE)  
GPIO03: RESERVED (INTERNAL PULLUP ENABLE)  
GPIO04: DOCK ID 0  
GPIO20: DOCK ID 1  
GPIO21: DOCK ID 2  
GPIO23: -LCD\_PRESENCE


Internal Pullup enabl for GPIO 05/20/21

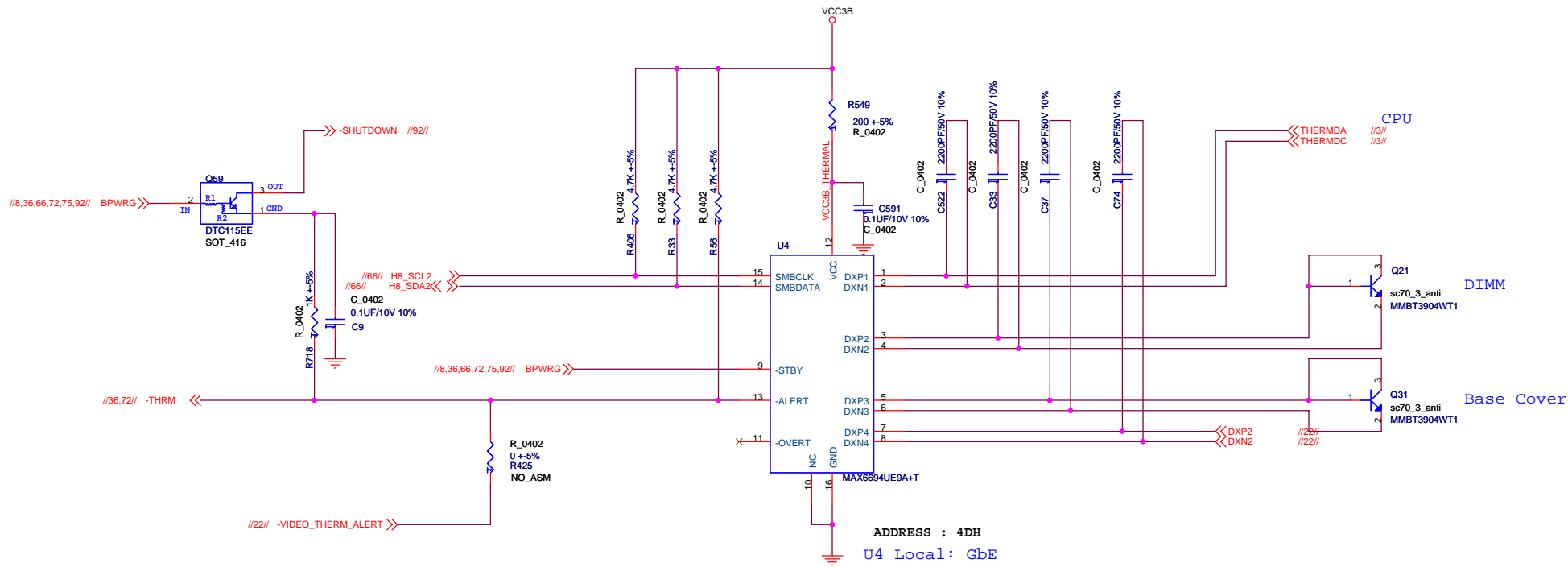
POWER ON STRAP PIN  
PIN2: BASE I/O ADDRESS  
NC: 164E/164F (INTERNAL PU)  
PD: 2E/2F  
PIN 31: LPC SWITCH FUNCTION  
NC: SWITCH ENABLE (CONTROLLED BY DLCON BIT)  
PD: SWITCH DISABLE (FORCED TO BE DISCONNECTED)  
PIN 47: TRISTATE  
NC: NORMAL OPERATION  
PD: ALL PINS FLOATING  
PIN 48: TEST  
NC: NORMAL OPERATION  
PD: TEST MODE


WIKIKI ID
HIGH: WAIKIKI
LOW: DAVINCI

4 IN1 SLOT	R561
YES	ASM
NO	NO_ASM

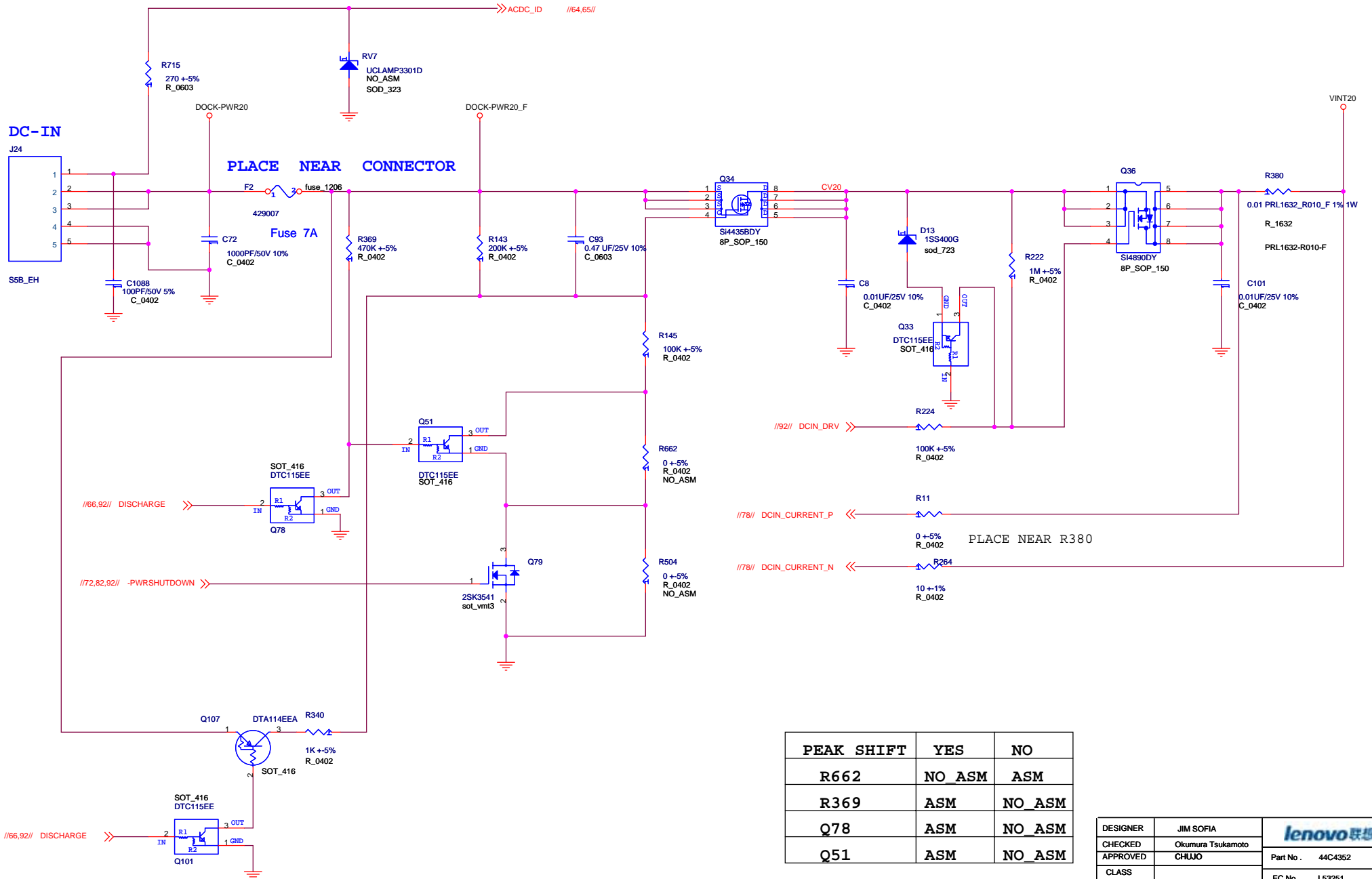
	R1022
14''	NO_ASM
15W	ASM

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		sheet 73 of 101 Tuesday, April 01, 2008




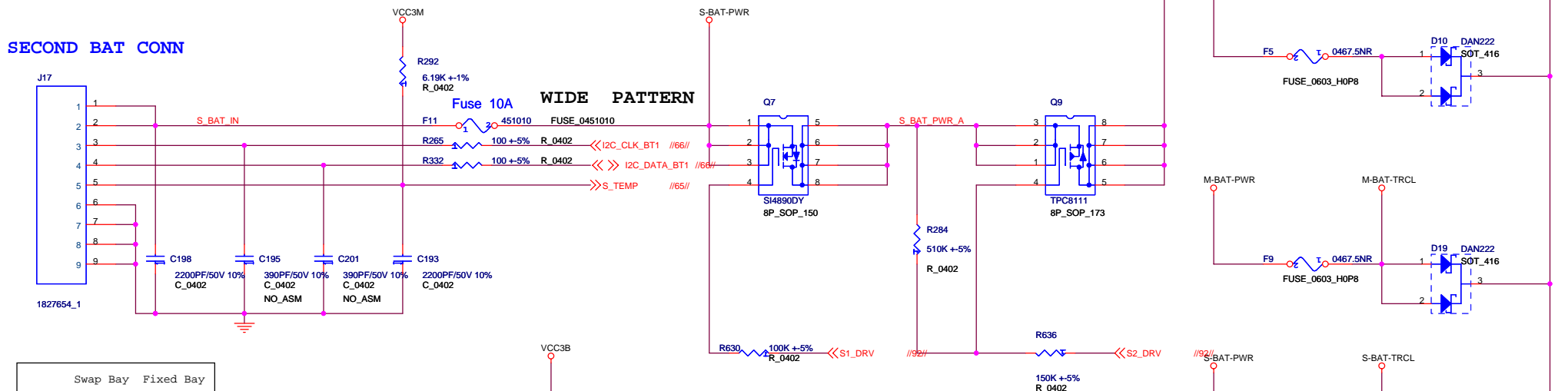
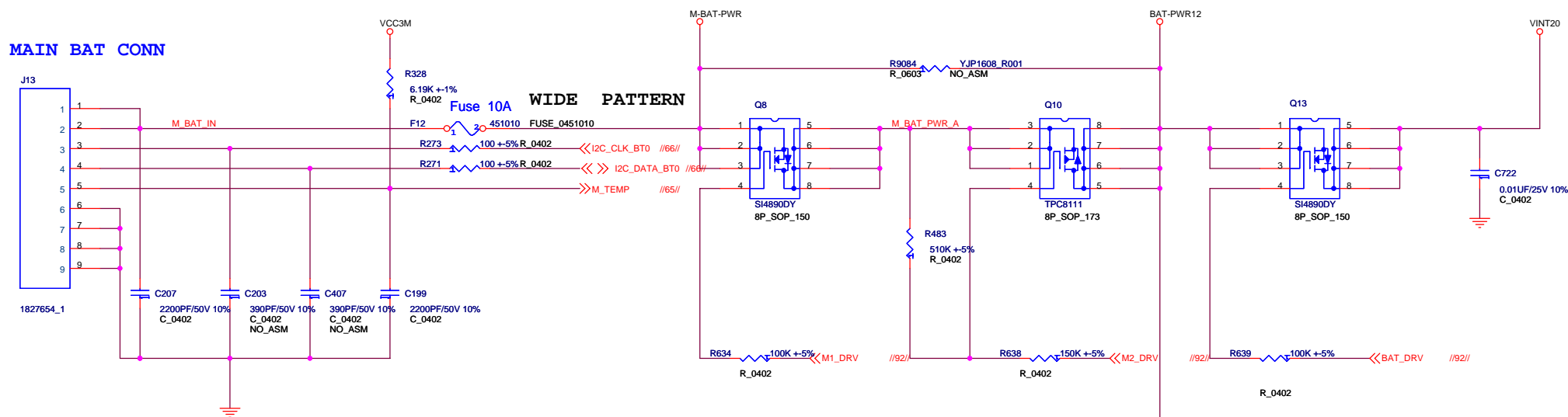
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CHECKED	Okumura Tsukamoto	
APPROVED	CHUJO	
CLASS		
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		TITLE: Waikiki3-EXT SIT
		THERMAL SENSOR
		sheet 74 of 101 Tuesday, April 01, 2008



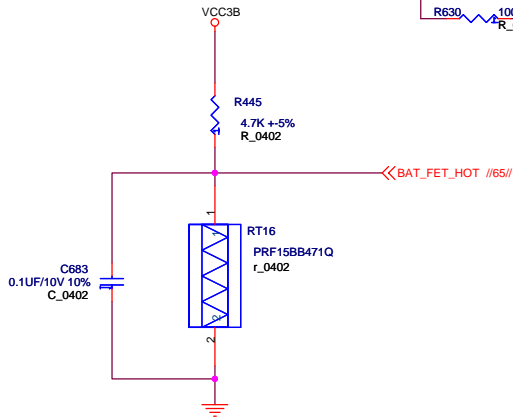


PEAK SHIFT	YES	NO
R662	NO_ASM	ASM
R369	ASM	NO_ASM
Q78	ASM	NO_ASM
Q51	ASM	NO_ASM

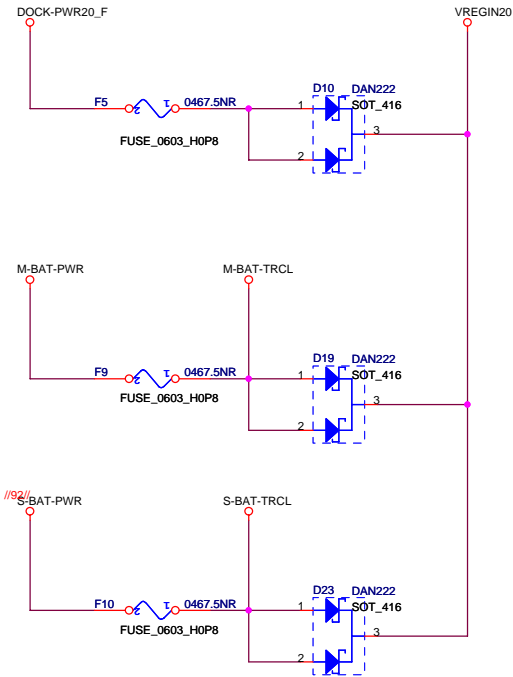
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		sheet 76 of 101 Tuesday, April 01, 2008




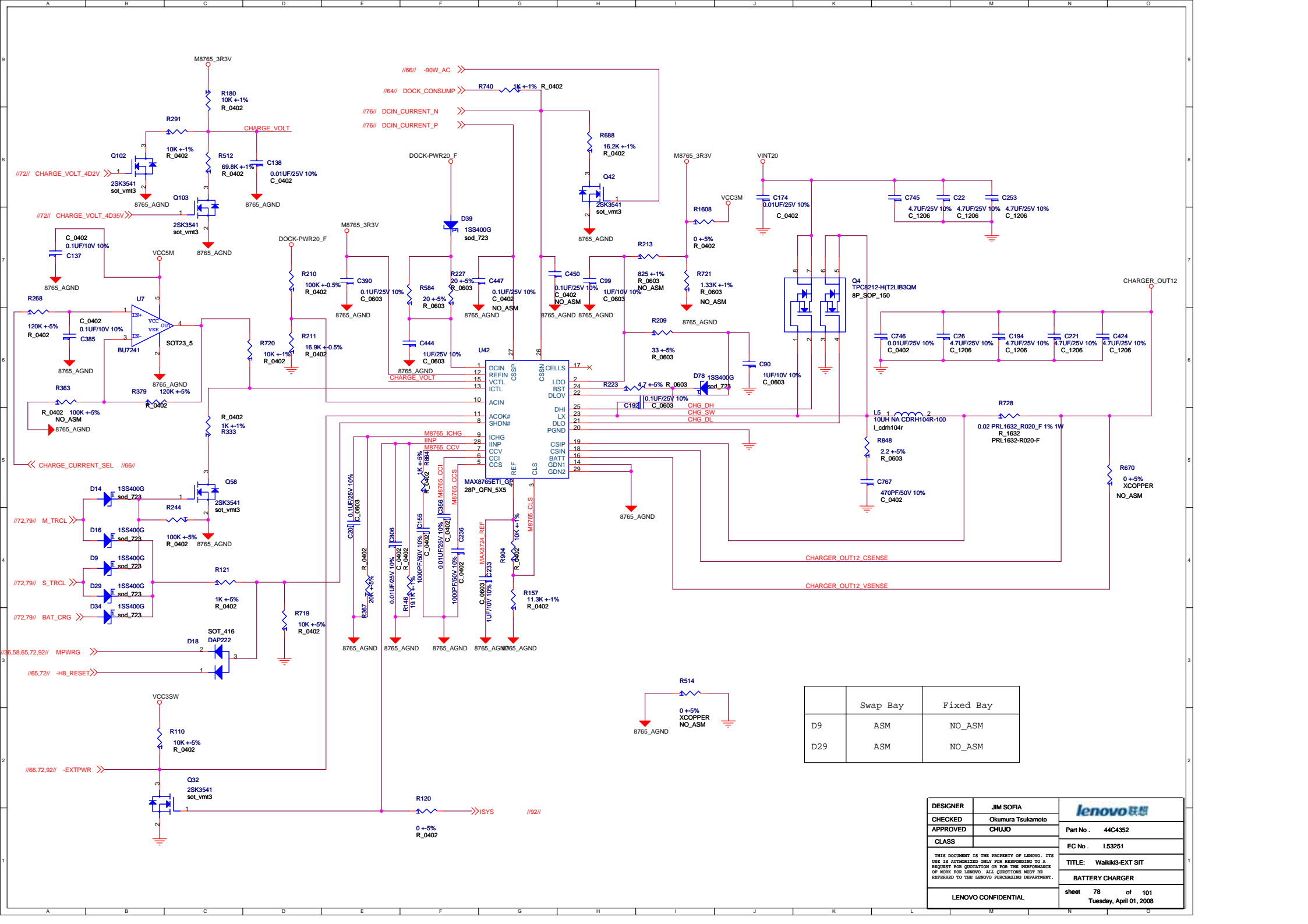
	Swap Bay	Fixed Bay
J17	ASM	NO_ASM
C198	ASM	NO_ASM
C195	NO_ASM	NO_ASM
C201	NO_ASM	NO_ASM
F11	ASM	NO_ASM
R265	ASM	NO_ASM
R332	ASM	NO_ASM
Q7	ASM	NO_ASM
R630	ASM	NO_ASM
Q9	ASM	NO_ASM
R636	ASM	NO_ASM
R284	ASM	NO_ASM



Swap Bay		Fixed Bay
Q8	ASM	NO_ASM
R634	ASM	NO_ASM
Q10	ASM	NO_ASM
R638	ASM	NO_ASM
R483	ASM	NO_ASM
F10	ASM	NO_ASM
D23	ASM	NO_ASM
R9084	NO_ASM	ASM
R292	ASM	ASM



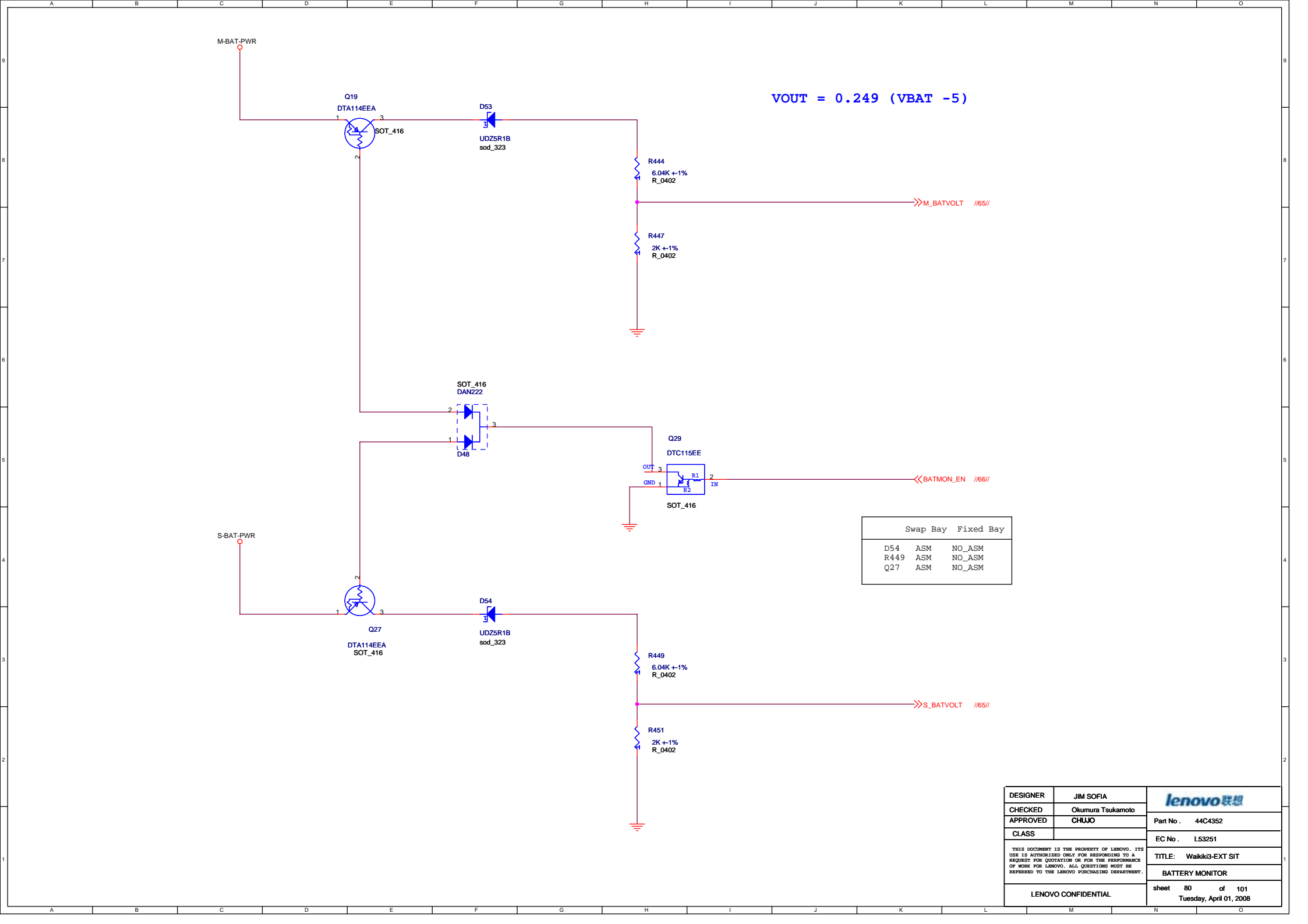
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CLASS		
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	Swap Bay	Fixed Bay
D9	ASM	NO_ASM
D29	ASM	NO_ASM

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		sheet 78 of 101 Tuesday, April 01, 2008



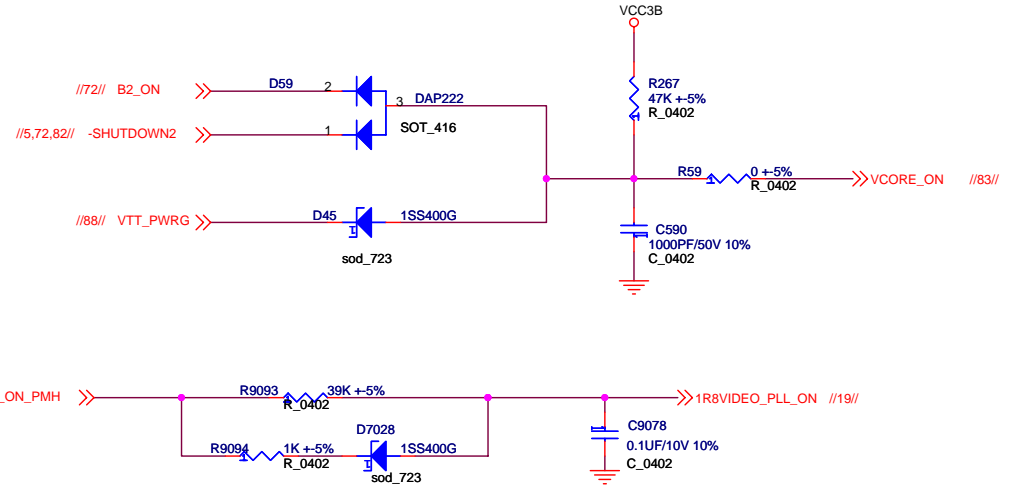
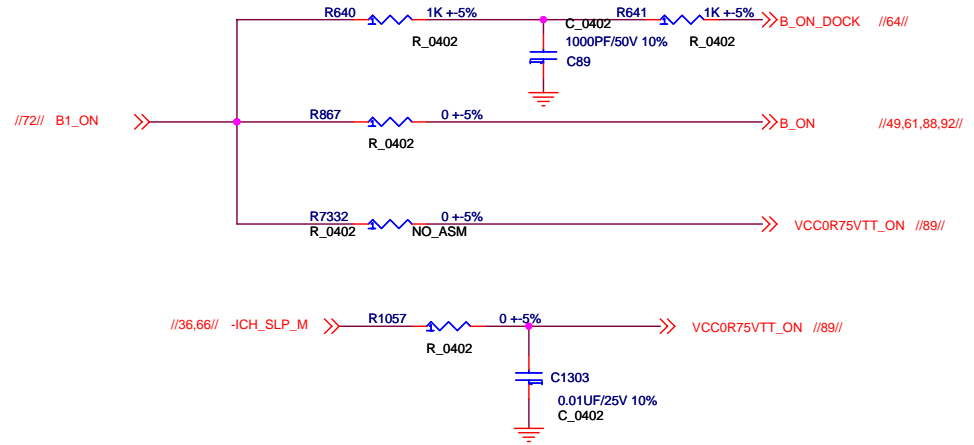
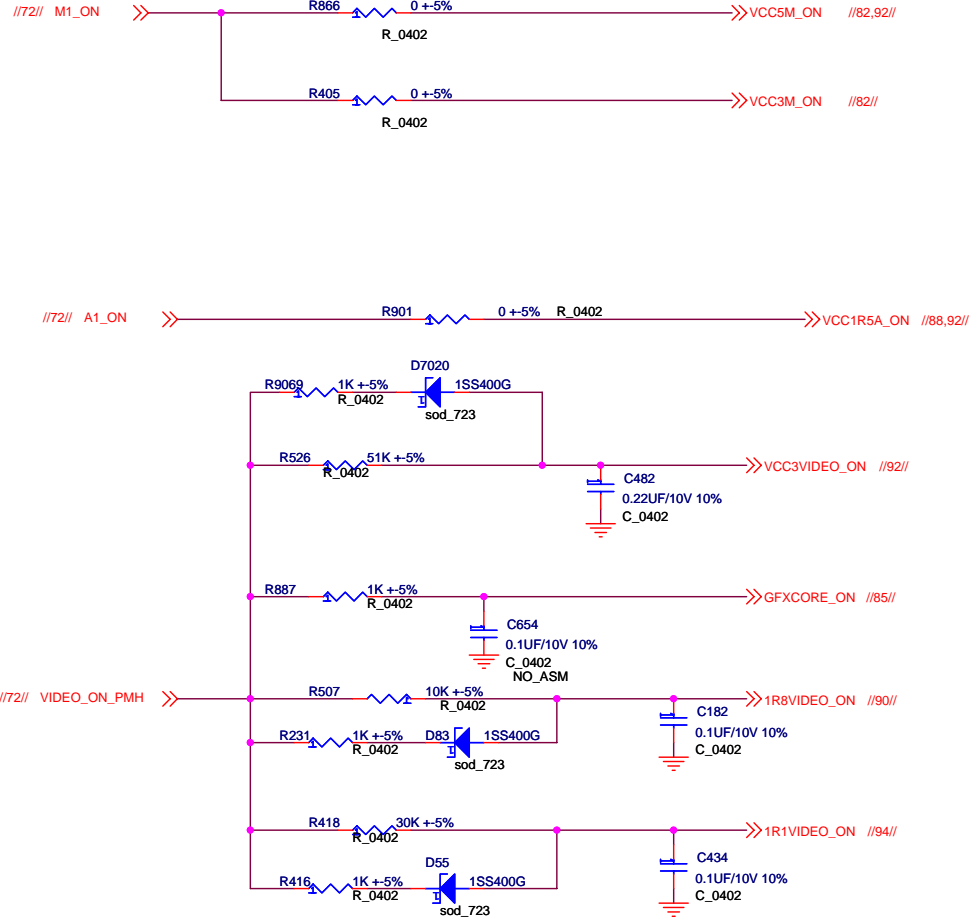



$V_{OUT} = 0.249 (V_{BAT} - 5)$

Swap Bay Fixed Bay		
D54	ASM	NO_ASM
R449	ASM	NO_ASM
Q27	ASM	NO_ASM

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		BATTERY MONITOR
LENOVO CONFIDENTIAL		sheet 80 of 101 Tuesday, April 01, 2008

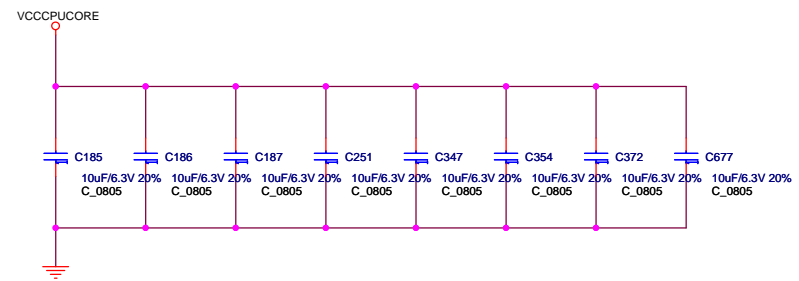
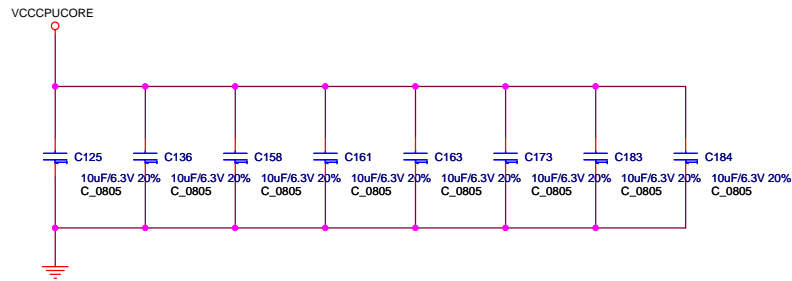




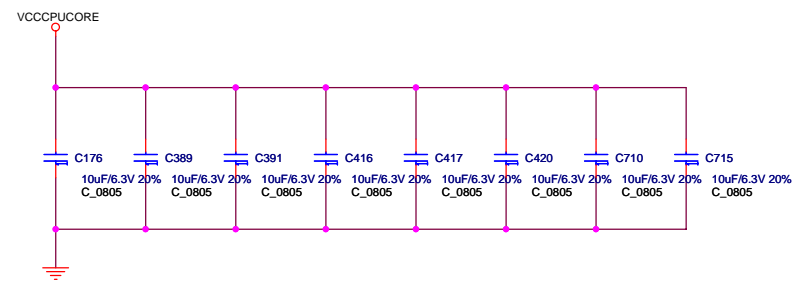
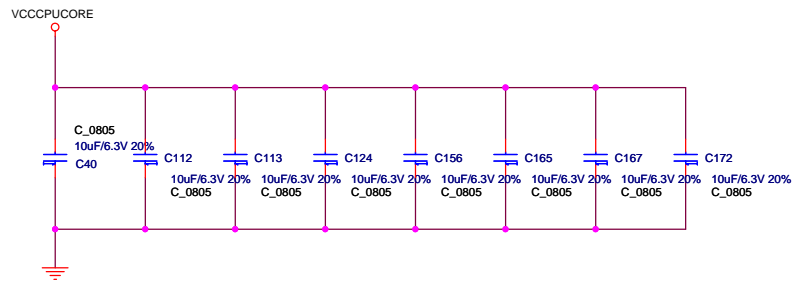
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		POWER SEQUENCE
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10UF 6.3V X5R 0805 1/16W X 16PCS



10UF 6.3V X5R 0805 1/16W X 16PCS  
(USE ADP3207A)

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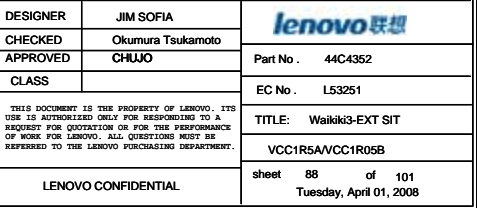


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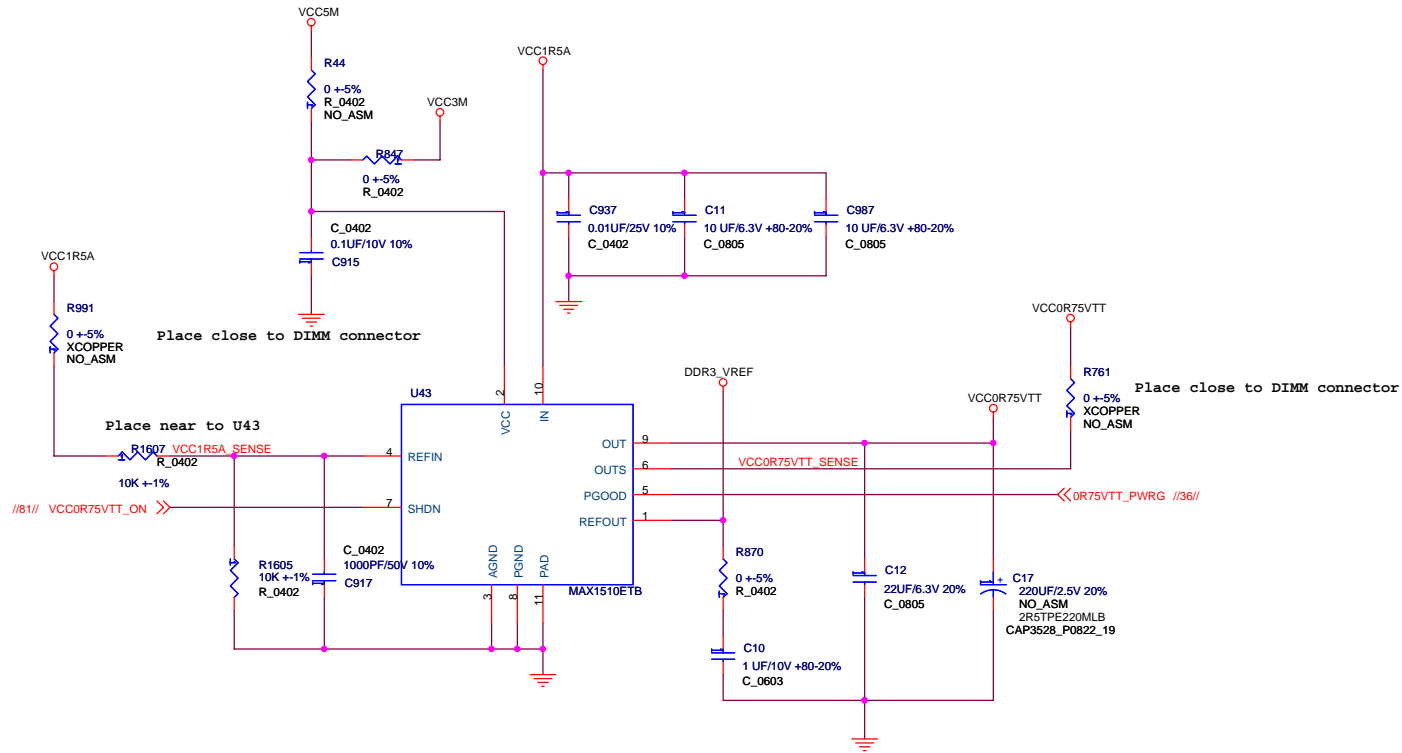
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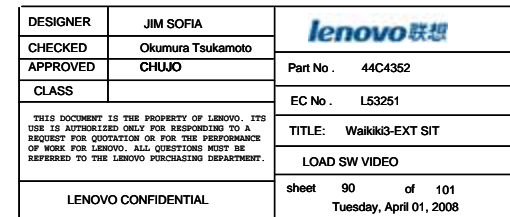
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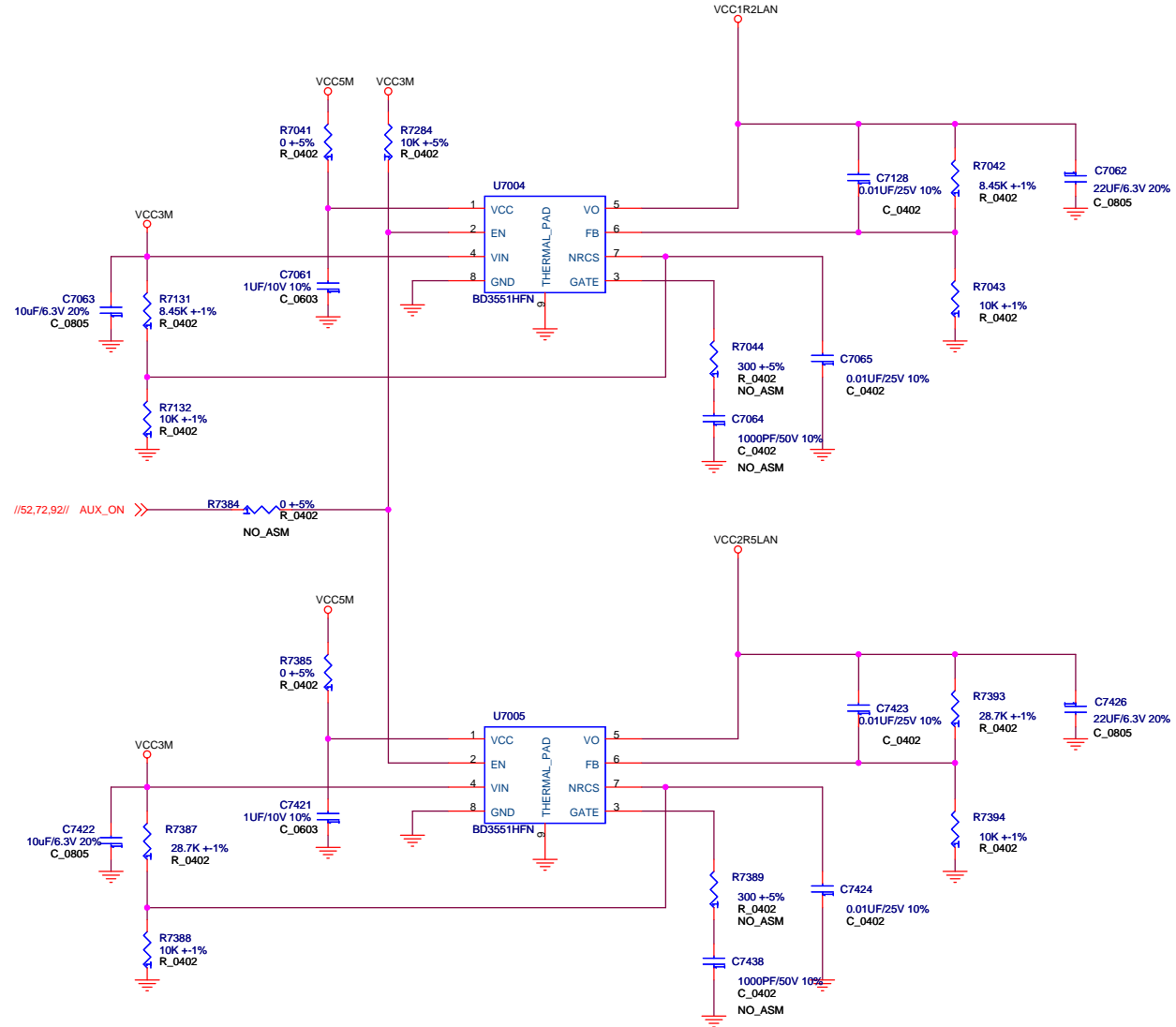
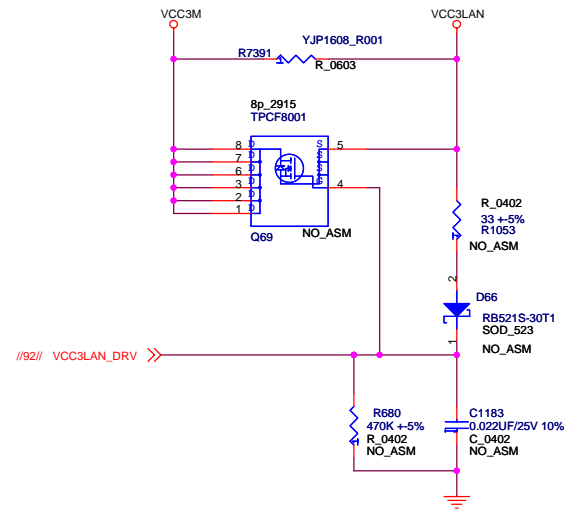
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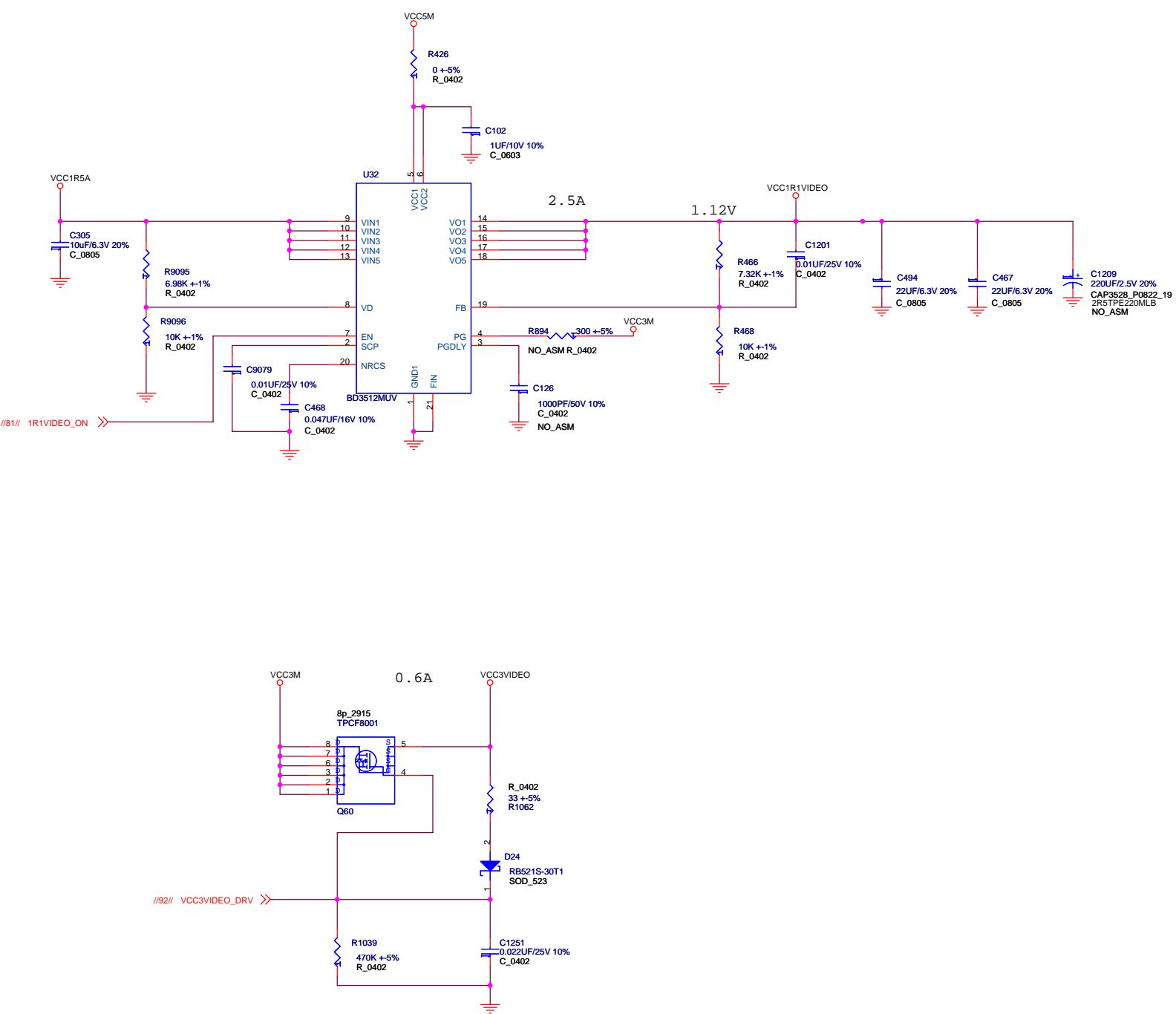


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		EC No .      L53251
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		SMPWRG
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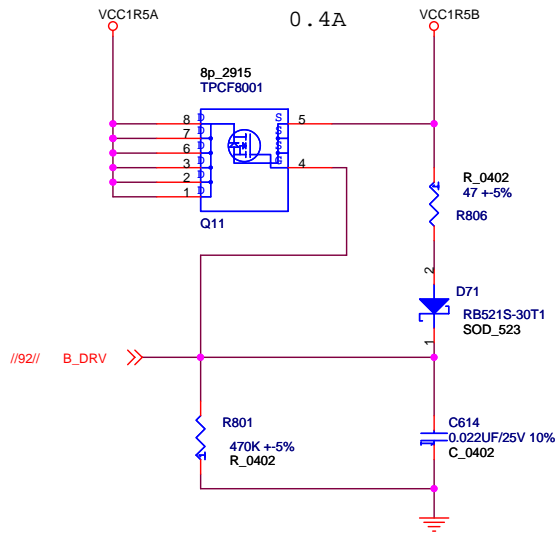
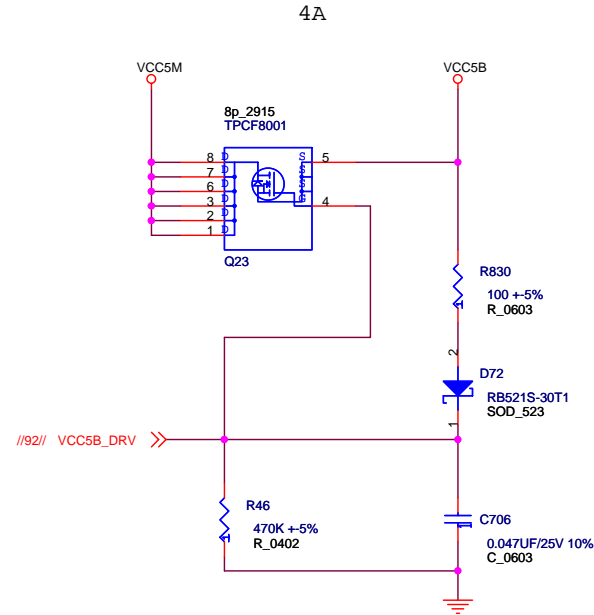
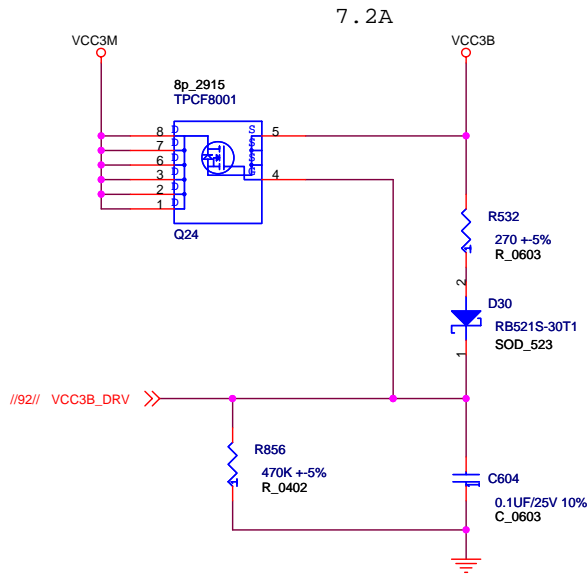
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B

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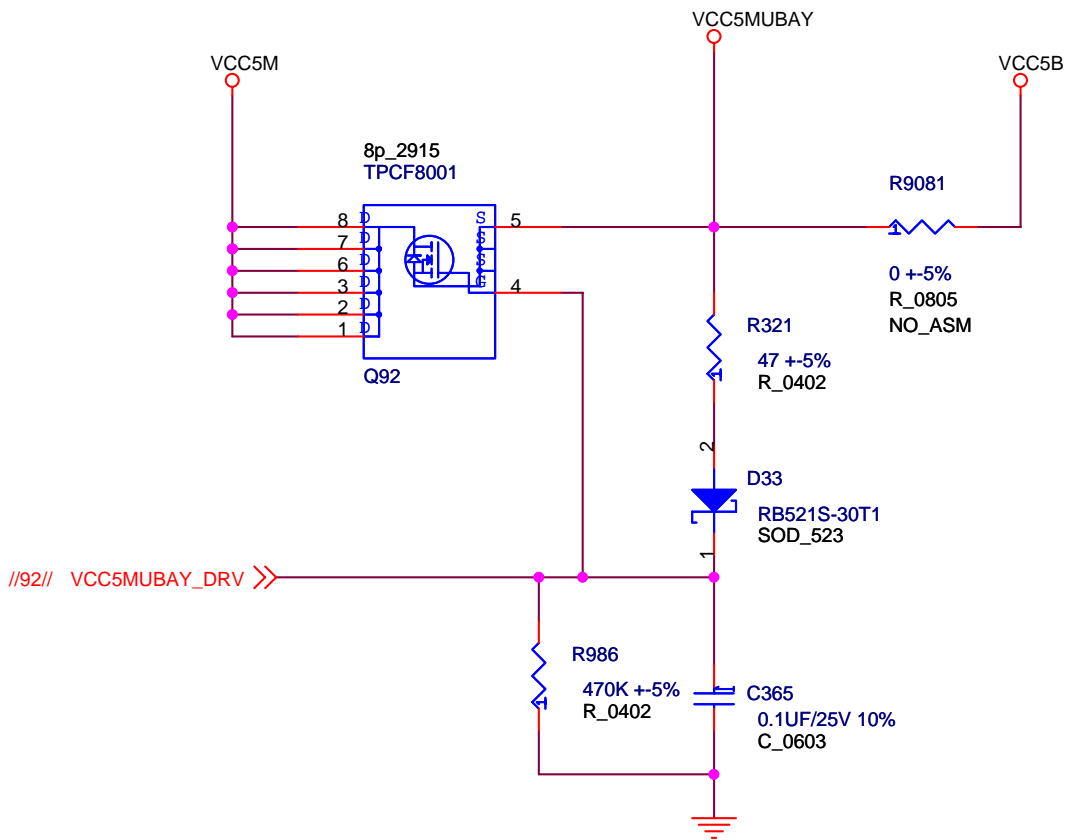


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		LOAD SW B
LENOVO CONFIDENTIAL		sheet 96 of 101 Tuesday, April 01, 2008




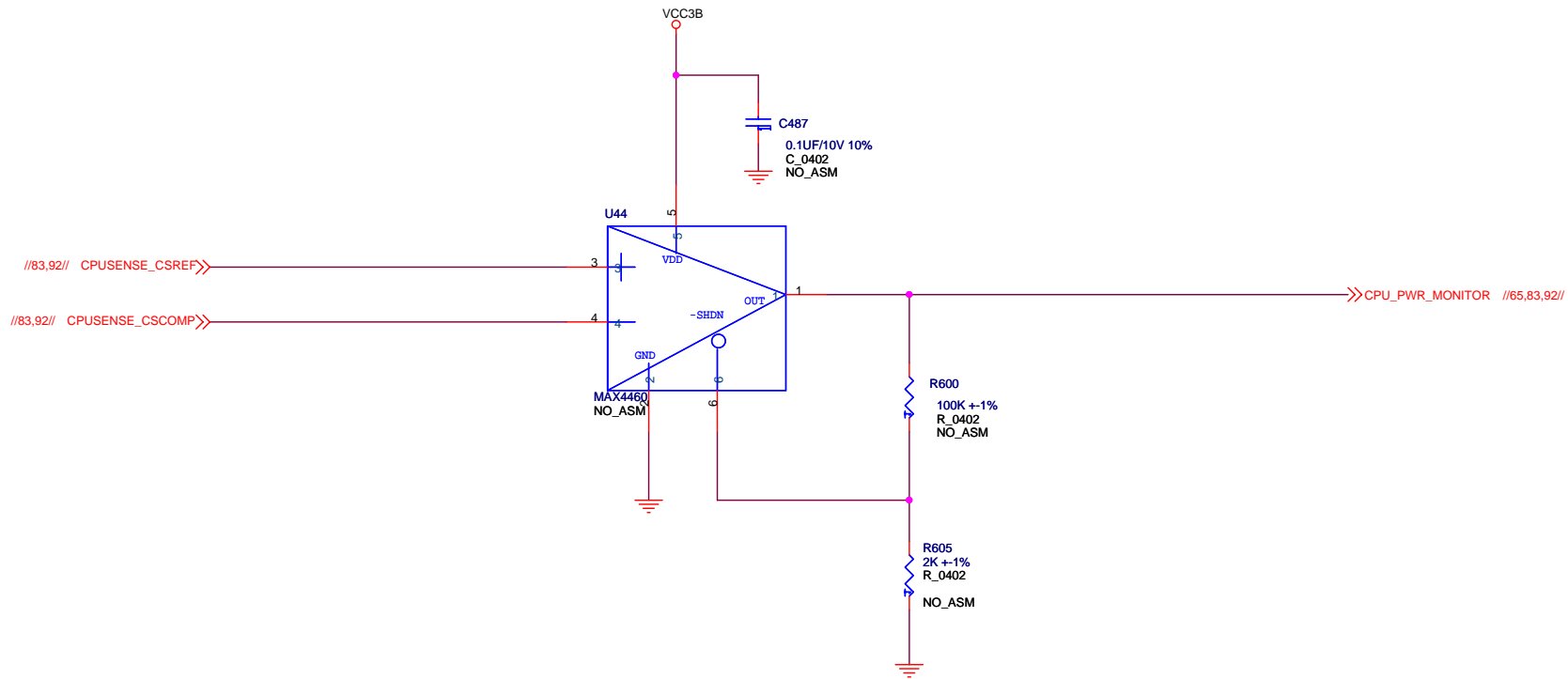
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	Swap Bay	Fix Bay
Q92	ASM	NO_ASM
R321	ASM	NO_ASM
D33	ASM	NO_ASM
C365	ASM	NO_ASM
R986	ASM	NO_ASM
R9081	NO_ASM	ASM

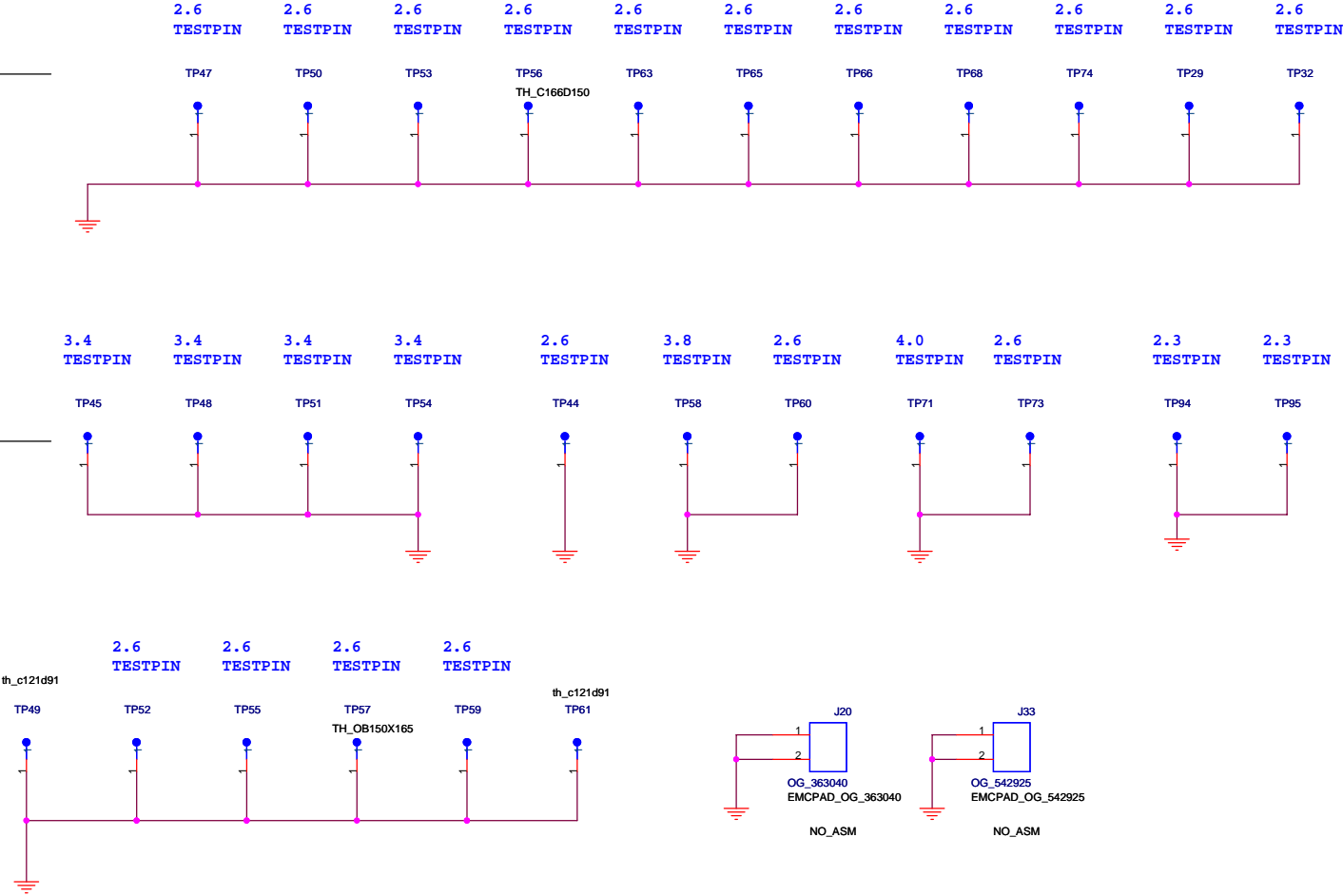
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		EC No . L53251
		TITLE: Waikiki3-EXT SIT
		CPU POWER MONITOR
LENOVO CONFIDENTIAL		sheet 99 of 101 Tuesday, April 01, 2008



PTH FOR SCREW HOLE



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